SITE INSPECTION/REMOVAL SITE EVALUATION REPORT

Shapiro Brothers Salvage
Jefferson County, Missouri

September 25, 2012

Missouri Department of Natural Resources
Division of Environmental Quality
Hazardous Waste Program

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REMOVAL SITE EVALUATION FORM

DATE	**September 28, 2012**
PREPARED BY	**Michael Stroh**
	Missouri Department of Natural Resources
SITE	**Shapiro Brothers Salvage Site**
	Jefferson County
C.A. NUMBER	**V997381-07**

1.0 INTRODUCTION

The Missouri Department of Natural Resources (department), through a Cooperative Agreement with the U.S. Environmental Protection Agency (EPA), conducted a Site Inspection/Removal Site Evaluation (SI/RSE) at the Shapiro Brothers Salvage Site in Jefferson County, Missouri. The purpose of this investigation was to collect information needed to support scoring the site under the Hazard Ranking System (HRS), and to determine the need for a Removal Action.

The scope of the investigation included review of historical documents and sampling of soil, dust, sediment and surface water. The SI/RSE investigation was initiated on November 15, 2011 and included sampling events in January 2012 and April 2012.

2.0 SITE DESCRIPTION

2.1 Location

The site is located at the intersection of 12th Street and Vine Street in east-central Festus, MO. It is a rectangular 15-acre area, oriented primarily north-south, along the boundary that separates Festus and Crystal City, MO (red boundary in Figure A1).

2.2 Description

The site has been operated as metal scrap processing and recycling facility since 1946. Prior to September of 2011, the site was owned and operated as Shapiro Brothers Salvage, a privately owned salvage company. In September 2011, the site was purchased by M.W. Recycling, LLC, a

wholly owned subsidiary of PSC Metals INC. In addition to scrap metal processing, the operation also includes demolition services, dismantling of out of service railroad cars, and transportation services to clients for scrap metal materials. Materials brought to the 15-acre facility are processed by cutting with a torch, or with a 450 horsepower shear or 3500 horsepower shredder. The metal is processed and compressed into sizes that are transported to a steel mill for recycling. All non-metal items are separated out. This material is referred to as auto fluff (Photo 5, Appendix B) and it is taken to a sanitary landfill for disposal.

Most of the facility operations are conducted in unpaved gravel-covered areas, areas with exposed bare soil or soil mixed with gravel (Photo 1). During periods of wet soil conditions, trucks leaving the facility would likely have historically tracked mud through the streets on their way to U.S. Highway 61. There are two gates into the facility; a main south gate and a north gate (Photos 2 and 3). Most of the traffic into and out of the facility occurs through the south gate, while fluff pile material is loaded onto trucks which may exit through the northern gate. A truck wash system was installed in the fall of 2011 to clean the undercarriage and wheels of trucks leaving through the southern gate (Photo 2). The facility started operating a street sweeper in the roads around the facility in 2011 to remove residual material tracked into the streets by trucks (Photo 8).

Prior to the spring of 2011, trucks approached the facility by traveling along 12th Street to and from Truman Blvd. (U.S. Highway 61). A heavy spring flood event in 2011 washed out the culvert beneath 12th Street near the facility making the road impassable (Photo 9). Since then, trucks have traveled south from the facility on the residential street Delmar Ave. before connecting with Truman Blvd. via 6th Street.

Runoff from the facility enters a drainage that flows south to Plattin Creek. The drainage carries storm water runoff and is carried by underground conduit resurfacing in various areas along its route to Plattin Creek. Figure C2 shows the route of the drainage between where it begins just

north of the facility to where it discharged into Plattin Creek near the waste water treatment plant located 2 miles downstream. Plattin Creek then flows for about 1.8 miles to its mouth at the Mississippi River.

2.3 History/Contaminants of Concern

The site came to the departments' attention following complaints made to the City of Festus by nearby residents regarding the dust created at the facility and by trucks hauling material in and out of the facility. The department conducted a facility inspection in September 2011 and identified violations of hazardous waste management and water pollution laws (MDNR, 2011a; MDNR, 2011b; MDNR, 2011c). The facility is working with the department to address these violations under an Abatement Order on Consent (in draft at time of this report).

During the September 2011 inspection, surface soil samples were collected from various areas in the facility, and a sample of the truck wash solids was collected from the newly installed system at the south gate. Soil samples were analyzed for the eight metals regulated under the Resource Conservation and Recovery Act (RCRA metals). Elevated levels of lead, cadmium and other metals were found in every soil sample collected as well as in the truck wash solids. The City of Festus and a contractor working for Shapiro Brothers both collected separate samples of street sweeper debris collected from roadways surrounding the site (9th, Delmar, and Vine) in August 2011 (SLTL, 2011; NPN, 2011). Results for both samples show elevated levels of cadmium, lead and other metals in similar proportions to those found in facility soils and truck wash solids. The sample collected by the M W Recycling contractor contained over twice as much lead (4,860 mg/kg) as the sample collected by the City (2,240 mg/kg). However, lead in the City's sample was found to be more leachable and would classify the collected street sweepings as hazardous waste under state and federal law.

Samples of surface water from upgradient and dowgradient of the facility were also collected

during the September, 2011 inspection. Results documented discharge of lead and cadmium in surface water runoff from the facility at levels in violation of state and federal law. No sediment sampling was conducted in the unnamed stream running north to south along the facility's eastern boundary due to the lack of sediment. However, metal debris obviously originating from metal processing operations at the site was observed in the creek bed along this part of the creek (Photo 18). On December 20, 2011, staff walked the creek between the 12th Street bridge and where it emerges upstream from two subsurface culverts. Staff continued north along the eastern facility boundary to the northeastern corner of the facility, directly across from the main shredding operation. Metal debris was observed between the facility boundary and the adjacent Joachim Plattin Ambulance District building. Multiple holes were observed in the metal walls of the ambulance building (Photo 13) and the building manager stated that they were caused by metal debris projectiles which are periodically ejected from the facility shredder (Photo 14).

On December 14, 2012, Jefferson County Health Department staff conducted dust wipe sampling on floor and window well surfaces at the daycare facility located 200 feet east of the Shapiro facility at 1302 Kenner Street. Four of the 5 wipe samples were non-detect for lead, and one floor sample contained 75 ug/ft^2. A sample was also collected of the gravel/soil in the outside play area and found to contain 270 mg/kg lead.

Department staff returned to the facility in January 2012 to resample the truck wash solids and street sweepings for waste characterization confirmation. Based on three samples, the truck wash waste, while containing lead levels up to 3,980 mg/kg, was characterized as non-hazardous under RCRA. A sample of the street sweepings containing 2,400 mg/kg lead was also characterized as non-hazardous waste.

Staff also collected soil samples at the facility to be analyzed for a broader range of potential contaminants during the January 2012 site visit. Results from those samples show that in addition to lead, the metals arsenic, cadmium, chromium, copper, nickel and zinc are present at

elevated levels (MDNR, 2012). Other non-metal contaminants detected include PCBs, polynuclear aromatic hydrocarbons (PAHs), phthalates, toxaphene, dioxins/furans and 4-chloro-3-methyl phenol. However, the concentrations of these other contaminants relative to commonly used soil screening levels are not nearly as significantly elevated as for lead. Although not analyzed for in the facility soil, polybrominated biphenyl ethers (PBDEs) were identified as a potential concern. PBDEs are flame retardant chemicals added to plastics, upholstery coatings and urethane foams such as would be expected to be present in the auto fluff material. There is growing evidence that PBDEs persist in the environment, accumulate in living organisms and may be associated with liver, thyroid and developmental toxicity (USEPA, 2010).

In June 2012, M.W. Recycling conducted a Phase II Environmental Site Assessment (PSC, 2012) which included surface, subsurface, shallow groundwater and surface water sampling. Similar metals and PCBs as those observed in the Department samples discussed above were detected in both surface and subsurface sampled from various areas of the facility. In addition, petroleum hydrocarbons and lead were detected in soil and shallow (<16 feet below ground surface) groundwater. No chlorinated solvents were detected in soil or shallow groundwater at significant concentrations.

3.0 WASTE CHARACTERISTICS

3.1 Lead - Properties and Toxicity

Information in this section was taken from the Toxicological Profile for Lead (ATSDR, 2007). Lead is a naturally occurring bluish-gray metal found in small amounts in the Earth's crust. It has no characteristic taste or smell. Lead has many uses, the most important in production of some types of batteries. It is also used in ammunition and ceramic glazes. Some chemicals containing lead, such as tetraethyl lead and tetramethyl lead, were once used as gasoline additives to increase octane rating.

Other chemicals containing lead are used in paint. The amount of lead added to paints and ceramic products, caulking, gasoline, and solder has been reduced in recent years to minimize lead's harmful effects on people and animals. It is used in large variety of medical equipment (radiation shields, fetal monitors, and surgical equipment). Lead is also used in scientific equipment (circuit boards for computers and other electronic circuitry) and military equipment (jet engine turbine blades, military tracking systems). Most lead used by industry comes from mined ores (primary) or from recycled scrap metal or batteries (secondary). Human activities have spread lead and substances that contain lead to all parts of the environment. Lead is in air, drinking water, rivers, lakes, oceans, and soil.

The effects of lead are the same whether it enters the body through breathing or swallowing. The main target for lead toxicity is the nervous system, both in adults and in children. Long-term exposure of adults to lead at work has resulted in decreased performance in some tests that measure functions of the nervous system. Lead exposure may also cause weakness in fingers, wrists, or ankles. Some studies in humans have suggested that lead exposure may increase blood pressure, but the evidence is inconclusive. Lead exposure may also cause anemia; a low number of blood cells. The connection between the occurrence of some of these effects (e.g., increased blood pressure, altered function of the nervous system) and low levels of exposure to lead is not certain. At high levels of exposure, lead can severely damage the brain and kidneys in adults or children. In pregnant women, high levels of exposure to lead may cause miscarriage. High-level exposure in men can damage the organs responsible for sperm production.

Children are more vulnerable to lead poisoning than adults. A child who swallows large amounts of lead may develop blood anemia, severe stomachache, muscle weakness, and brain damage. If a child swallows smaller amounts of lead, much less severe effects on blood and brain function may occur. Even at much lower levels of exposure, lead can affect a child's mental and physical growth. Exposure to lead is more dangerous for young and unborn children. Unborn children can be exposed

to lead through their mothers. Harmful effects include premature births, smaller babies, decreased mental ability in the infant, learning difficulties, and reduced growth in young children. Some of these effects may persist beyond childhood.

4.0 CONCEPTUAL SITE MODEL

Elevated levels of arsenic, cadmium, copper, lead, nickel, and zinc have been measured in surface and shallow subsurface soils at the facility. These same metals have also been measured in solids collected from the truck washing station near the facility entrance and in street sweepings samples collected from residential roads adjacent to the facility. Based on a comparison of the concentrations measured relative to common screening benchmarks, it is clear that the primary contaminant of concern for the site is lead. Levels of lead exceeding 37,000 mg/kg have been measured in surface soil at the facility, and concentrations up to 4,800 mg/kg of lead has been measured in street sweepings collected from residential streets nearby. These levels far exceed most screening benchmarks for lead in residential yards which are in the range of 260-400 mg/kg.

Site-related contaminants may have been released in a number of ways. Fine particulates from contaminated soils disturbed at the facility or from the material processing activities themselves could be transported off-site via wind during operations at the facility. Contaminated soils clinging to trucks leaving the facility could be released to roadways in residential areas where it could be transported as dust, or with runoff following rain events. This mechanism of release may have been significantly reduced since the installation of the truck washing station at the south entrance and the initiation of street sweeping, but historical releases via this mechanism would have been likely. Contaminated facility soils transported and released to roadways could be ground down into fine particulates through subsequent truck traffic. Fine particulates could

then be deposited on yard soil or on various exterior surfaces, or be transported into residences through open windows or via tracking in on shoes or other means. The facility is located directly across from residential housing to the east, west, and south (Photo 4). Residents could be exposed to contaminated particulates through direct contact with contaminated yard soil, dust on surfaces, or inhalation of particulates in ambient air.

Contaminants deposited on residential yard soils through air deposition would be expected to show a spatial pattern with higher concentrations nearer to the facility or haul road. Lead poses some unique challenges since it may also be present near residential structures due to past use of lead paint, and near roadways due to fallout from vehicle exhaust during the period when leaded fuel was used. The nation's only primary lead smelter is located approximately 2 miles north of the Shapiro facility and may be an additional source of lead contamination due to air deposition from the smelter. Aerial deposition would be expected to result in a distribution of lead across contiguous yards at similar concentrations with some pattern of decreasing concentration with distance from the smelter. It has been also suggested by M.W. Recycling that smelter slag may have been used in the past as road base or for traction control on streets of the City of Festus and Crystal City in the winter. This source would be expected to result in similar lead concentrations and patterns of spatial distribution in residential yards along such streets where this occurred.

Contaminants could be released from the facility to downstream surface water and sediments in a drainage leading to Plattin Creek and to Plattin Creek itself. Human exposure could occur with direct contact to stream water and sediment or through ingestion of fish living in contaminated stream reaches, although this is relatively unlikely due the nature of this urban drainage.

Metal containers (drums, tanks, railcars, gas tanks) which previously held solvents or other liquid chemical products may have been processed at the facility in the past. Should such containers have held residual product, it may have been released to the surface during the processing of the containers. Historical releases of residual solvents may migrate vertically through soil contaminating

shallow groundwater. The drinking water source for the residents of Festus and Crystal City is a 94-feet deep public well located 1.4 miles northeast of the salvage yard along the Mississippi River. This well draws water from the Ozark Aquifer which is unconfined in this region. Volatile contaminants reaching shallow groundwater in the immediate area, may also migrate and result in vapor intrusion into buildings near the site. The Phase II investigation conducted by M.W. Recycling included several subsurface soil samples and two shallow groundwater samples, none of which contained significant levels of chlorinated solvents. Although these are potential pathways of concern, they are considered a lower priority for this phase of investigation and sampling for this pathway was not included in this phase of the investigation.

5.0 WASTE SAMPLING

5.1 Transformer Soil Sampling

Visibly stained soil was observed along Vine Street west of the facility barrier wall beneath a transformer. A single 30-increment composite sample was collected from this area and submitted for PCB analysis.

5.2 Soil Sampling at Facility

Soil sampling was conducted previously at the facility and is described in the RCRA/Superfund Site Investigation Report (MDNR, 2012e). A sample of the soil collected from beneath the fluff pile during this previous event was retrieved from archive and submitted for analysis of dioxins and polybrominated diphenyl ethers to assess whether these may be additional contaminants of concern for the yard sampling.

5.3 Street Sweeper Sampling

A sample of bagged street sweepings was also collected by the Department on January 11, 2012 during the Department's RCRA waste characterization sampling. A sample of street sweepings was collected previously by NPN Environmental on behalf of Shapiro Brothers on December 1, 2011. Both of these samples were collected following cleaning of streets near the facility (primarily Vine Street and portions of Delmar and 12th Street). A sample of street sweepings was also collected on April 12, 2012 by the department as part of this investigation. That sample was collected from a City of Festus street sweeper after it had cleaned streets in the vicinity of the background residences used for this investigation (Ridge, Woodlawn, and Central Avenues).

5.4 Results

No PCBs were detected in the transformer soil sample. Several dioxin congeners and 3 PBDEs were detected in the soil beneath the fluff pile. The results were compared with the EPA Regional Screening Levels (RSLs) developed for residential soil (Table C10). The soil concentrations measured were below the RSLs.

The street sweepings samples collected by Shapiro Brothers from roadways near the facility contained 4,860 mg/kg lead, while the sample of bagged street sweepings collected by the department contained 2,440 mg/kg lead. The street sweepings sample collected by the department from roadways near the background residences contained 190 mg/kg lead.

6.0 GROUNDWATER PATHWAY

6.1 Hydrogeologic Setting

Information provided in Section 6.1 is taken from a hydrogeologic summary provided by the

department's Division of Geology and Land Survey (MDNR, 2012f). The general stratigraphy and hydrology in this part of Missouri is shown in Table C1. Stratigraphic unit descriptions are based on logged wells located within a 2-mile radius of the site.

6.1.1 Soil and Residuum

The soil under the Shapiro Brothers Salvage site is the Menfro silt loam. The soil, which can be up to 65 feet thick in some areas, is composed of roughly 18 to 30 percent clay. The unconsolidated sediments range in thickness from 50 to 65 feet near the site. Menfro silt loam is acidic to neutral (pH 5.1 to 7.3) and hydraulic conductivity is roughly 1.4×10^{-3} to 4×10^{-4} centimeters per second (cm/sec). Overburden groundwater flow direction is most likely toward the southeast, which is the topographic down slope direction.

6.1.2 Hydrogeology

The Ordovician-age rocks beneath the site range from 900 feet to 920 feet thick and consist predominantly of sandstone, dolomite, and cherty dolomite. Beneath this formation is the 430 to 500 feet thick Cambrian-age Eminence and Potosi Dolomites consisting of medium to coarsely crystalline dolomite with mostly nodular chert. Together, these formations form the Ozark Aquifer.

The hydraulic conductivity of the Ozark Aquifer ranges from 1×10^{-4} to 1×10^{-5} cm/sec. Of the wells of record within the 4-mile target area, all 357 are reportedly completed in the Ozark Aquifer. There is no site specific groundwater flow data for the Ozark Aquifer. However, the ground-water flow direction within this aquifer is likely influenced locally by pumping wells.

Beneath the Ozark Aquifer lies the Cambrian-age Derby-Doerun Dolomite and Davis Formations of the St. Francois Confining Unit. This sequence of alternating shale and argillaceous dolomite

is locally greater than 50 feet thick. The St. Francois Confining Unit, with a hydraulic conductivity as low as 1 x 10^{-8} cm/sec is an effective barrier to downward groundwater movement. None of the reported wells extend into this formation.

Nine known sinkholes exist between 1.5 to 4 miles north of the site. However, these sinkholes exist within a different stratigraphic unit than that found below the site. Therefore, the site does not appear to lie within a karst setting. This is supported by the presence of a classified gaining stream just east of the site.

6.2 Groundwater Targets

The Ozark Aquifer provides water for all of the 357 recorded non-monitoring wells and produces up to 1,500 gallons per minute within 4 miles of the site. The local wells do not draw water from greater than 1,375 feet in depth.

The DGLS databases contain records of sixteen municipal, nine community public, eighteen non-community public, eleven industrial, one irrigation, and 302 domestic wells in Missouri within a 4-mile radius of the Shapiro Brothers Salvage site. The DGLS database indicates that the nearest known domestic well lies within 100 feet west of the site; however the residence at this location (Location ID 116) was included in this investigation and the owner stated they do not have a well on their property. This would place the nearest domestic well approximately 1 mile northeast of the site near the Mississippi River. The nearest public well lies approximately 0.9 mile southwest of the site. This well is City of Festus Public Well #9, which is currently only used as an observation well (MDNR, 2012g). The City of Festus and Crystal City obtain drinking water from the Jefferson County Water Authority (JCWA) which draws water from a 94 feet-deep alluvial well along the Mississippi River approximately 1.4 miles northeast of the site (MDNR, 2012h). This well serves a population of 12,465 people. However, due to recent drought conditions, the City of Festus has been supplementing their supply with drinking water from one

of its previously inactive backup public wells (Well#8) located approximately 2 miles south of the site. The City of Festus has been supplementing its supply from JCWA by pumping 0.5 million to 1 million gallons per day from Well #8 for 1-2 days per week over the past few months (MDNR, 2012i).

Figure 1 of reference (MDNR, 2012f) illustrates the approximate locations of the 357 known non-monitoring wells within a 4-mile radius of the site. Table 1 of reference (MDNR, 2012f) lists specific technical attributes (total and casing depth, static water level, date drilled, yield, etc.) of the non-monitoring wells found within 4 miles of the site.

Prior to 1987, registry of private wells was not required. Therefore, existing older wells may not be included in the database. Also, proper well registration may not have been submitted for some wells. Because of these exceptions, the databases may not accurately depict water well usage in this area. While, public water supply districts cover a large portion of the well survey area, many rural residents still use private wells.

6.3 Conclusions

The residents of the City of Festus and Crystal City obtain drinking water from a public water supply well located 1.4 miles from the site, which is routinely tested for the contaminants of concern at this site and has not been impacted by releases at the site. Sampling of the shallow groundwater beneath the site has demonstrated a release of lead and petroleum hydrocarbons. Volatile hydrocarbon compounds within the petroleum release could pose a potential threat through the vapor intrusion pathway, but are unlikely to impact the public well which draws water from the alluvium beneath the Mississippi River.

7.0 SURFACE WATER PATHWAY

7.1 Hydrologic Setting

The nearest surface water is a tributary to Plattin Creek that flows along the east side of the site. This is an unnamed gaining stream (MDNR, 2012f). The precise potential point of entry (PPE) is not clear since a number of potential discharge points were observed along the slope between the rail line bed and the creek at the eastern site boundary (Photograph 11). Surface water leaving the site flows south along the unnamed tributary for approximately 1.8 miles before reaching Plattin Creek. Through this stretch, the stream varies between an open drainage and an underground culvert. From where the tributary enters Plattin Creek, it flows roughly 1.8 miles east before entering the Mississippi River. After entering the Mississippi River, surface water flows south for approximately 12.4 miles before reaching the 15-mile downstream limit. The 15-mile downstream limit for this site lies at the Mississippi River Mile Marker 137.

There are no known surface drinking water intakes within 15 miles downstream of the site. Surface water drainage area up gradient of the site is approximately 100 acres. There are approximately 3,253 acres of wetlands within 4 miles of the site (Figure A1). The 2-year, 24-hour rainfall is approximately 3.55 inches.

7.2 Sample Collection

Surface water and sediment samples were collected at 3 locations in the unnamed tributary as shown in Figure A2. Sample location SW01/SD01 was at the southeast corner of the facility at the 12th Street bridge (Photo 19); SW02/SD02 was approximately 1,200 feet downstream of SW01 (Photo 19); and SW03/SD03 was approximately 3,000 feet downstream of SW01 (Photo 20). The tributary is enclosed in an underground culvert upstream of the site. Therefore no upgradient sampling location could be identified. Instead, a background sampling location (SW04/SD04) was identified in a similar size stream located in Sunset Park (Photo 23). Samples

were submitted to the department's Environmental Services Laboratory for analysis of arsenic, cadmium, copper, lead and zinc.

7.3 Results

All laboratory results and sampling documentation are included in the Sampling Report (MDNR, 2012x). A summary of the surface water results is provided in Table C2, and sediment results are summarized in Table C3. Sediment results for lead exceed the USGS probable effects concentration (PEC) in all samples, including the background location.

The site-related contaminants: cadmium, copper, and lead, were present in surface water and sediment at levels significantly above background levels in SW01/SD01 and in the downstream samples. Zinc was also present at levels significantly above background in in surface water at SW01/SD01. The surface water and sediment contaminant levels decrease with distance downstream however, dropping to near background levels at the SW02/SD02 and SW03/SD03 locations.

7.4 Conclusions

Data collected during this investigation and the previous facility investigation (MDNR, 2011a) document a release of lead and other metals from the site to surface water and sediments of the unnamed Plattin Creek tributary forming the eastern site boundary. Contaminant levels drop off fairly rapidly with distance falling to near background levels by approximately 1,200 feet downstream of the site. The receiving tributary is not classified under the Missouri Water Quality Standards for any protected uses, and primarily functions as an urban stormwater drainage feature. Direct contact exposure of nearby residents to water or sediments in the drainage is unlikely and it was not observed to be capable of supporting a food chain fishery.

8.0 SOIL EXPOSURE AND AIR PATHWAYS

8.1 Physical Conditions

The soil under the Shapiro Brothers Salvage site is the Menfro silt loam. The soil, which can be up to 65 feet thick in some areas, is composed of roughly 18 to 30 percent clay. The unconsolidated sediments range in thickness from 50 to 65 feet near the site. Menfro silt loam is acidic to neutral (pH 5.1 to 7.3) and hydraulic conductivity is roughly 1.4×10^{-3} to 4×10^{-4} centimeters per second (cm/sec).

8.2 Soil and Air Targets

The population living within various distance rings from the site are summarized in Figure A1.

8.3 Sample Collection

8.3.1 Residential Yards

In-situ XRF analyses were conducted in residential yards at established distances along transects perpendicular to the suspected source of contamination which was either the roadway or the Shapiro facility (Photos 15 and 16). Spatial trends in concentration were used to establish the boundaries of a relatively narrow sampling unit (SU1) within which higher lead concentrations were expected. In-situ XRF analyses were also conducted at various distances along transects established perpendicular to the residence foundations in order to identify the extent of any potential influences due to historic uses of lead paint.

Incremental composite soil samples (ICS) were collected at 42 target residences and 4 background residences (Photo 17). Field replicates were collected at 11 residences. At each residence, ICS were collected from SU1 and from a second sampling unit (SU2) consisting of the rest of the yard excluding the drip zone influence area. At some residences where no significant lead concentrations

were measured near the suspected source, no SU1 was established, and the entire yard (excluding the drip zone) was sampled as SU2. This process was repeated at the background residences. Children's' play areas were sampled separately; multiple in-situ XRF readings were collected from beneath play areas observed at Location IDs 124, 158, 161, 163, and 176. Where elevated lead levels were observed (Location IDs 124 and 176), a 15-increment ICS was collected from beneath the play area for further analysis.

The samples were processed as described in the SAP and analyzed for metals by XRF. Thirteen of the samples were submitted to the laboratory for confirmatory analysis of lead, arsenic and cadmium. In addition, the sample from SU2 in the yard at Location ID 110 was submitted for PAH analysis and the sample from SU2 in the yard at Location ID 103 was submitted for organochlorine pesticides. A sample was collected from in another yard located near the facility and submitted for PCB analysis, however due to a field transcription error, the Location ID was not recorded for this sample.

The background residential area was initially identified along portions of Warne and Moore Streets. However, during sampling a resident in that area indicated that metal scrap haul trucks had also been using these streets. Two residences (Location IDs 139 and 174) were sampled on Warne Street prior to this discovery. Following this discovery, background sampling in this area was discontinued and 4 additional background residences (Location IDs 218, 221, 222, and 224) were identified further to the southwest in an area believed to be free from haul truck traffic.

8.3.2 City Park Background Sampling

Background soil samples were collected from three City of Festus parks; West City, Sunset, and Billy Porter Memorial (Location IDs 300, 301 and 302). A 10,000 ft^2 area was identified in each park and a single 30-increment composite sample was collected from each area. The samples were processed as described in the SAP and analyzed for metals by XRF.

8.3.3 Exterior Surface Dust Wipe Sampling

A limited number of dust wipes were collected from exterior surfaces at selected residential properties near the facility (Location IDs 105, 117, and 216) and at background residences (Location IDs 218 and 224). During sampling activities, the owner of Location ID 179 requested a wipe sample be collected from the surface of his home and this was done; however this was not a planned wipe sample location. Wipes were only collected from non-painted surfaces or from surfaces known to be free of lead-paint such as vinyl siding.

8.4 Sample Results

Complete laboratory analytical results and chain of custodies are provided in the Combined Site Investigation/Removal Site Evaluation Report (MDNR, 2012d). Site sketches and sample log forms are provided in Appendix C. The raw XRF data is provided in Appendix D, and a summary is provided in Table C4. A summary of XRF and lab results for lead in drip zones, sampling units, dust wipes and yard-wide average concentrations is provided in Table C5. Graphs of lead concentration vs. distance from the suspected source area are provided in Figure A4. A summary of the calculated 95% upper confidence limits (UCLs) for the yard sampling units and yard-wide averages is provided in Tables C6, C7 and C8. Figure A3 is a map of lead results for residential yards as color-shaded polygons based on estimates of yard-wide mean lead concentration.

Lead was measured at 45 mg/kg in the surface soil of West City Park, 55 mg/kg at Sunset Park, and 99 mg/kg in Billy Porter Park. The mean lead concentration in the three park background samples and in the four background residential yards is 60 mg/kg and 137 mg/kg respectively (Table C9). A comparison of lead results for the background yards, city parks and target residential yards is provided in the box plots of Figure A7.

Results from the in-situ XRF analyses conducted in SU1 were used to prepare graphs of lead

concentration with distance from the suspected source for each residence (Figure A4).

Results from XRF analysis of the ICS were used to develop estimates of the mean lead concentrations in each SU and estimates of yard-wide lead concentration for each residence. For SUs where field replicates were collected, the three results were used to calculate a 95% upper confidence limit (UCL) which was used as the estimate of the mean (Table C6). For SUs where no replicates were collected, the measure of variability (standard deviation) was extrapolated from SUs where replicates were collected (based on the lead concentration range) and used to calculate a UCL (Table C6).

Yard-wide area-weighted mean lead concentrations were calculated as UCLs in a similar fashion from the SU data using the measured ICS result together with the area of each SU (Tables C7 and C8). UCLs were calculated using the Student's *t* approach described in the ITRC Incremental Sampling Methodology Guidance, and calculator tools provided in that guidance (ITRC, 2012a). This calculation approach is recommended for incremental sampling data when the skewness of the underlying contaminant distribution is relatively low (ITRC, 2012b). Data from in-situ XRF analysis conducted in SU1 follow a near-normal distribution with a low level of skewness as shown in histogram of Figure A6.

Estimates of the yard-wide mean lead concentrations exceed the EPA Non Time-Critical Removal Action Limit (RAL) of 400 mg/kg in 10 yards - primarily those located near the facility (Table C5 and Figure A3). No yard-wide means exceeded the Time-Critical RAL of 1,200 mg/kg. For the majority of these 10 yards, the lead concentration in the SU1 portion of the yard was responsible for elevating the yard-wide average above 400 mg/kg. At another 7 residences, although the yard-wide average lead concentration was below 400 mg/kg, the levels in the SU1 portion of the yard exceeded 400 mg/kg. Most of these additional 7 residences are located near the facility, however 2 of them, Location IDs 159 and 160, are located further away and are separated from the facility by several yards shown to be uncontaminated (Figure A3). Therefore,

it is not clear that the elevated lead observed in these 2 yards are attributable to the facility operations.

In total, the estimate of mean lead concentration in the SU1 portion of the yards exceeded the Non Time-Critical RAL in 17 yards and the Time Critical RAL in 6 yards. The estimate of mean lead concentration in the SU2 portion of the yards exceeded the Non Time-Critical RAL in 7 yards.

Dust wipe samples collected on exterior surfaces contained lead in varying concentrations from <20 ug/cm^2 at a background residence to 4,900 ug/cm^2 at a residence near the facility (Table C5).

Elevated lead was measured in the drip zone at several houses, including the background residences, as would be expected for homes build prior to 1978. These effects were generally limited to within several feet of the homes, and soil from these areas was not included in the SU ICS samples.

No PCBs, or organochlorine pesticides were detected in the residential yard soil samples. Several PAHs were detected in the sample collected at Location ID 110 (Table C10). Two PAHs, Benzo(a)pyrene and indeno(1,2,3-cd) pyrene, were detected at levels above commonly referenced soil screening benchmarks (Table C10).

8.5 Discussion

As shown in the graphs of Figure A4, at most residences - especially those nearest the facility - a trend is observed that is consistent with the conceptual site model (decreasing concentration with increased distance from the suspected source). For yards where both an SU1 and SU2 were sampled, the concentration of lead was greater in SU1 than in SU2 at a frequency of 75%. These trends are largely absent at residences further from the facility and at the background residences.

Street sweepings collected from near the facility contain lead levels in the 4,000 mg/kg range compared with 190 mg/kg in those collected from the background area. This finding is consistent with the assumption that lead-contaminated soil from the facility is released to the nearby residential streets via truck traffic leaving the facility. The dust wipe results also show a general trend consistent with the conceptual site model. Dust wipe samples collected from surfaces near the facility contained significantly more lead (up to 4,900 ug/cm^2) as compared with surfaces further away or from the background residences.

Although two PAHs, benzo(a) pyrene and indeno(1,2,3-cd)pyrene were detected in both the facility soil samples and in a residential soil sample, since they were present at lower levels in the facility soil samples, it is not clear that they are attributable to the site. Further, these compounds are ubiquitous in urban soils and the values measured in the residential soil sample, while above some of the commonly referenced screening levels, are similar to those that have been measured in urban background soils elsewhere (Bradley, 1994).

West City Park is the closest sampled city park to the Herculaneum smelter. It is located approximately 15,000 feet southwest of the Smelter (Figure A1). The sampled residential houses adjacent to the Shapiro Brothers Salvage yard are approximately 11,600 feet southwest of the smelter. The lead concentration in a 10,000 ft2 area of West City Park contained 45 mg/kg lead. This finding together with the observation that the other background park and residences also contained significantly lower lead concentrations than residences located adjacent to the salvage yard suggests that the lead influence from the smelter in the vicinity of the Shapiro Salvage yard is relatively minor.

Contributions of lead from the historic use of leaded gasoline, or from use of smelter slag either as road base or for traction control in winter would be expected to result in similar lead distributions in residential yards across multiple areas; not just those residences adjacent to the facility or along historic haul roads. However, as observed, the lead concentrations in yards of

the background area and for many yards along Delmar Avenue south of the facility are not significantly elevated.

Taken together, these multiple lines of evidence support attribution of the lead contamination observed in residential yards near the salvage yard to contaminated soil released from the facility or direct air deposition from the facility to nearby yards.

9 DATA QUALITY ASSESSMENT

9.1 Soil Sampling

XRF accuracy was evaluated using control charts and standard reference materials (SRMs) containing known concentrations of lead as described in the Standard Operating Procedure included in the SAP. Analyzer precision was evaluated by charting results from daily analysis of SRMs on a previously established control chart. Results for the SRMs were generally within 2 standard deviations established as the control chart criteria for precision indicating that the analyzers were operating properly (Control Chart Graphs in Appendix D).

XRF precision was assessed by conducting 7 replicate analyses each day on a processed soil sample, without manual mixing of the bag between analyses. These results are included in Table C4. Precision, measured as the percent relative standard deviation (%RSD) among the seven replicate analyses, was below 6% for all data sets, indicating acceptable precision.

Replicate analyses were conducted on each bagged soil sample to improve the estimate of the mean lead concentration. The precision of these replicates was measured by %RSD. Evaluation of the %RSD between the replicate analyses demonstrated that the sample processing measures (drying, disaggregation, sieving) generated soil samples with a relatively homogenous distribution of lead (Table C4).

Three field replicate samples were collected in each of 21 sampling units at 11 residences. The

%RSD in lead concentrations was calculated for each set of three field replicates as a measure of overall sampling and analysis precision (Table C11).

Calculated RSDs were well below 30% for all sets of replicate samples and below 10% for all but three of the replicate sets, demonstrating that sampling process was reproducible and that the number of increments collected per SU was sufficient to capture the heterogeneity of lead within the SU.

9.2 Surface Water and Sediment Sampling

One duplicate surface water and one duplicate sediment sample were collected at the 12th Street Bridge sampling location. The relative percent difference (RPD) was calculated for each analyte detected in both pairs of duplicate samples, and this is summarized in Tables C12 and C13. The RPDs were generally below 30% for most analytes, except for total lead and total cadmium in the surface water sample/duplicate. Since the RPD between dissolved metal concentrations in the sample pair were significantly lower, this higher RPD observed in total metals is likely due to differences in suspended solid content of the notedly turbid samples and the difficulties in obtaining a representative sample in the field and subsample in the lab.

9.3 Equipment Rinseate Blanks

Rinseate blanks were prepared following decontamination of the soil sampling tools on each of the three days of soil sampling. The rinse water was analyzed for arsenic, cadmium, copper, lead and zinc. Zinc was measured in two of the blanks at 1.27 ug/l and 1.94 ug/l. No other metals were detected.

10.0 SUMMARY AND CONCLUSIONS

The Shapiro Brothers Salvage Site is a 15-acre metal scrap and recycling facility located in a

residential area of Festus, Missouri. The operation has been active since the 1940s, and is currently owned by M.W. Recycling, a wholly owned subsidiary of PSC Metals INC. The salvage yard is unpaved, and lead concentrations up to 37,000 mg/kg have been measured in facility soils. Prior to 2011 when a truck washing station was installed, trucks entering and exiting the facility would likely have tracked contaminated soil from the facility to nearby residential streets. High levels of lead in samples of street sweepings from roads near the facility used by haul trucks confirm this suspected release mechanism. An SI/RSE Investigation was initiated to assess potential risks to human health and the environment posed by facility activities.

Soil sampling was conducted in yards at 42 residences located near the facility or along truck haul routes and at 4 background residences and 3 city parks. The yard wide average lead concentrations at 10 residences exceeded both background levels and the EPA Non Time-Critical Removal Action Level of 400 mg/kg. The average lead concentrations in at least part of the yard (SU1) exceeds 400 mg/kg at an additional 7 residences, 5 of which are located near the facility. Multiple lines of evidence gathered as part of the investigation support attributing the source of this contamination to the facility. Based on these findings, a Non Time-Critical Removal Action is warranted to address lead-contaminated soil at these 15 yards; all of which are located adjacent to or near the facility.

Surface water and sediment sampling documented releases of lead and other metals into an unnamed tributary to Plattin Creek that forms the eastern site boundary. The concentrations decrease with distance downstream to near background levels by approximately 1,200 feet downstream of the site. The tributary serves primarily as an urban stormwater runoff drainage and varies between being in subsurface culverts and daylighting at various points along the flow path. Direct contact exposure or use of the surface water as a fishery are unlikely.

11.0 RECOMMENDATIONS

The Department is currently negotiating with M. W. Recycling, LLC to conduct additional yard sampling to identify the extent of yard contamination in the area near the facility and to conduct removal actions at the 15 above-referenced residences with state oversight through an Abatement Order on Consent (AOC) under participation in the State's Superfund Cooperative Program. Should those negotiations fail to result in a signed AOC within the next three months, the site will be referred to USEPA with a recommendation for additional investigation and a Non Time-Critical Removal Action.

Shapiro Salvage Yard Site

Site Inspection/Removal Site Evaluation Report

Prepared by _____

Michael Stroh

Environmental Specialist

Site Assessment Unit

Reviewed by _____

Julieann Warren

Julieann Warren

Chief

Site Assessment Unit

Approved by _____

for Dennis Stinson

Chief

Superfund Section

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APPENDIX A
FIGURES

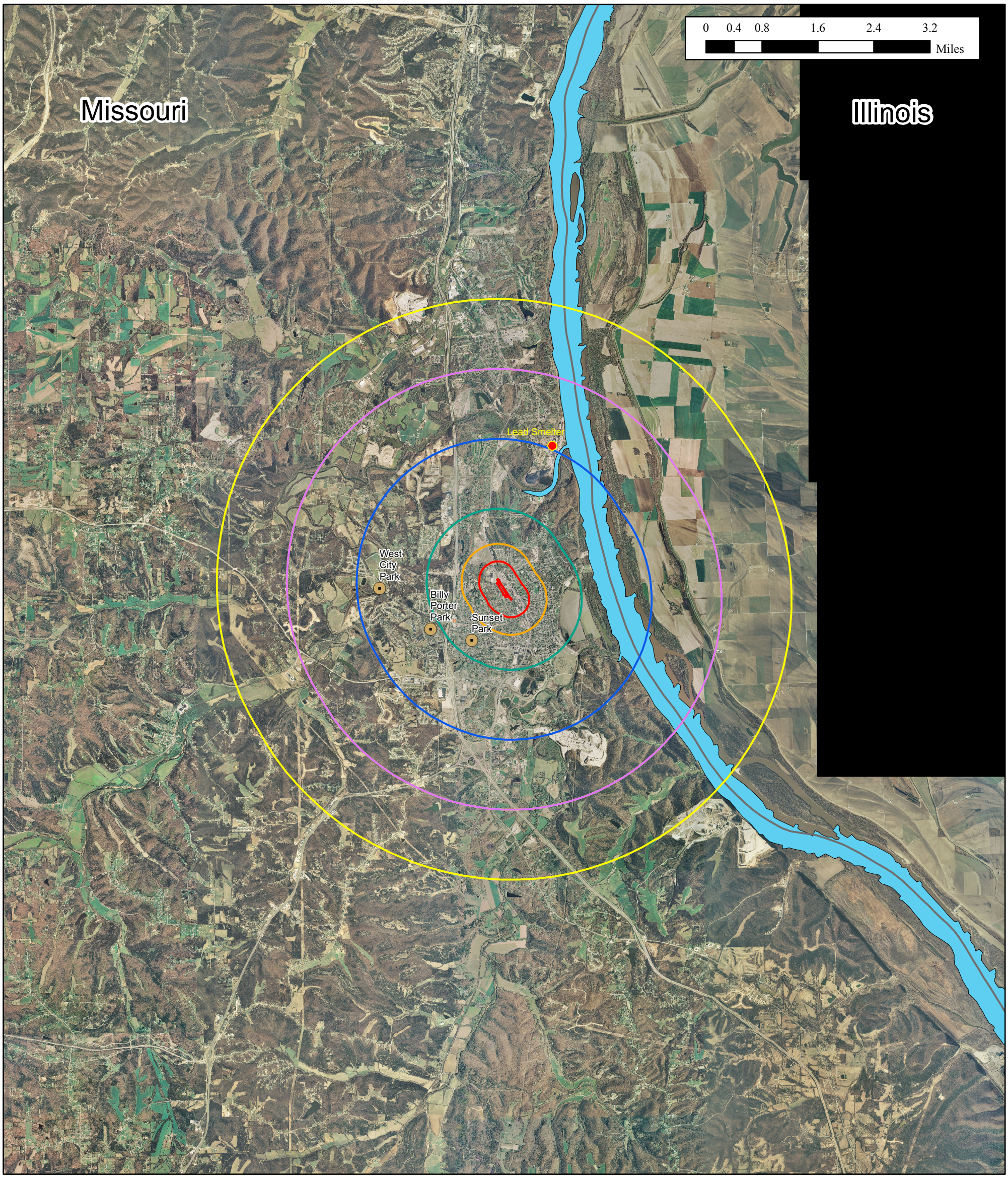


Figure 1A: Site Location Map
Shapiro Brothers Salvage Site
Festus, Jefferson County, MO

Legend

Wetlands within 4 miles: 3253 acres

Created on: August 16, 2012 by Shelly Jackson
This map is located at M/Superfund/Shapiro Brothers/Figure1A_SiteLocationMap1.mxd

Base Map: 2007 Missouri State Leaf-Off Imagery Program.
Flight Date: 2007

Additional Layers: Missouri Department of Transportation, U.S. Census Bureau.

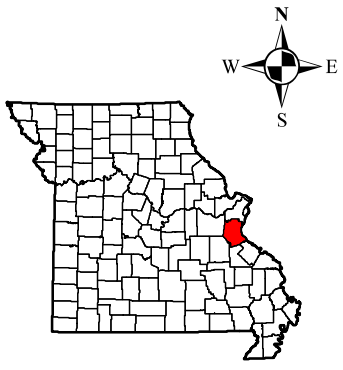
Although data sets used to create this map have been compiled by the Missouri Department of Natural Resources, no warranty, expressed or implied, is made by the department as to the accuracy of the data and related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the department in the use of these data or related materials.

Missouri Department of Natural Resources
Division of Environmental Quality
Hazardous Waste Program

- Shapiro Brothers Salvage Yard Boundary
- State Boundary
- Mississippi River
- Background Soil Sample Location

Population in Radius Rings from Shapiro Brothers Salvage Yard

(miles	population)
0.00 - 0.25	1,129
0.25 - 0.50	2,908
0.50 - 1.00	6,463
1.00 - 2.00	7,613
2.00 - 3.00	5,713
3.00 - 4.00	9,511



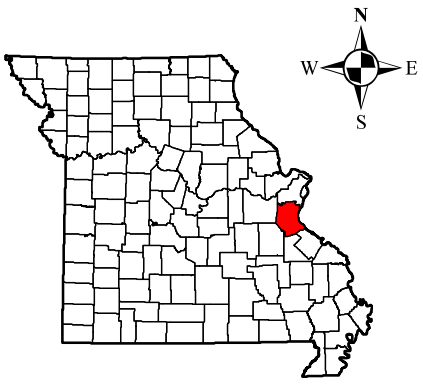


Figure A2
Surface Water/Sediment Sampling Locations
Shapiro Brothers Salvage Site
Festus, Missouri

Legend

Shapiro Brothers Salvage Yard Boundary

Surface Water/Sediment Sampling Location

Created on: June 11, 2012 by Shelly Jackson
This map is located at M/Superfund/Shapiro Brothers/Sample_Location_Map_Residences_Results.mxd

Base Map: 2007 Missouri State Leaf-Off Imagery Program.
Flight Date: 2007

Additional Layers: Missouri Department of Transportation, U.S. Census Bureau.

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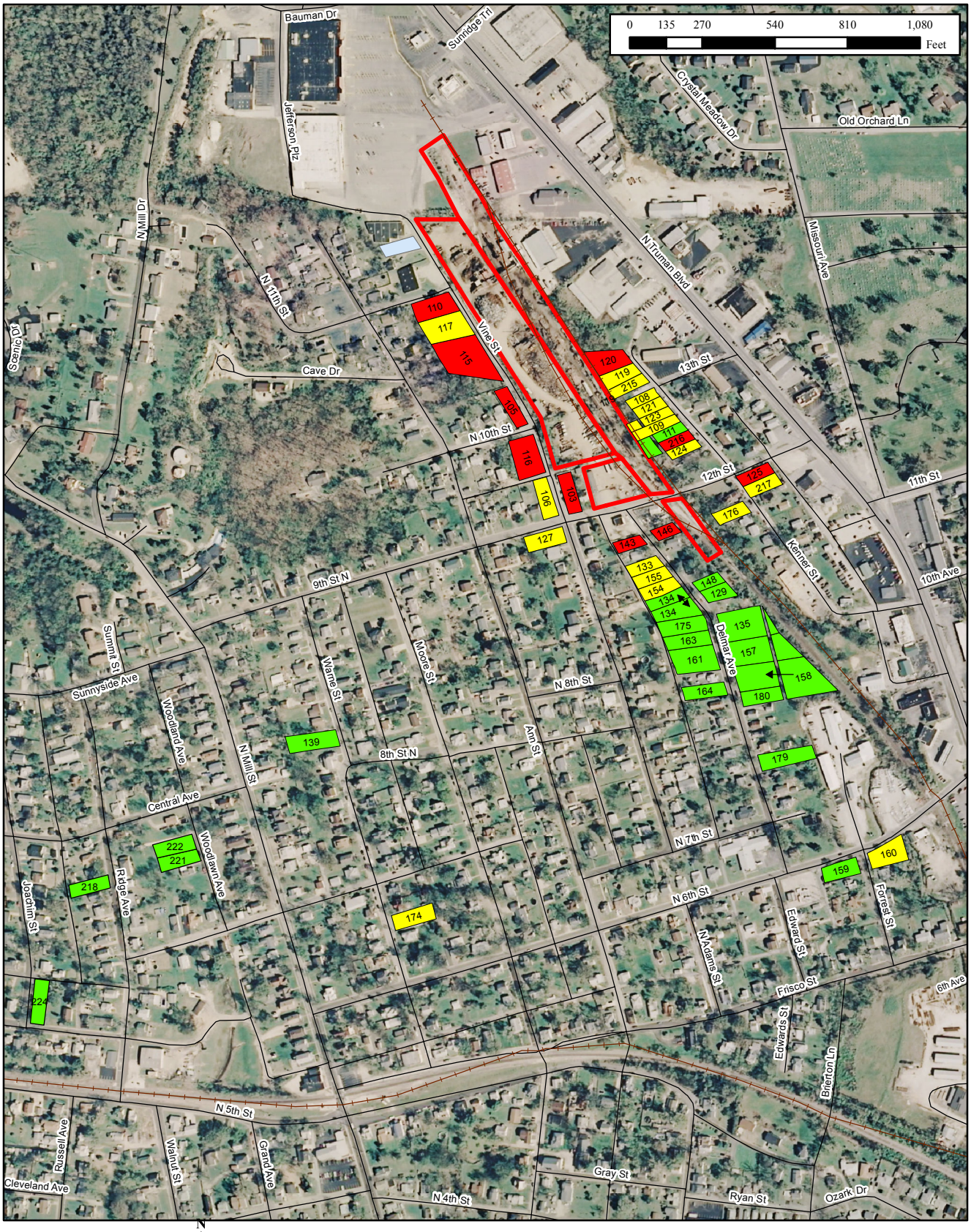
Division of Environmental Quality
Hazardous Waste Program



N
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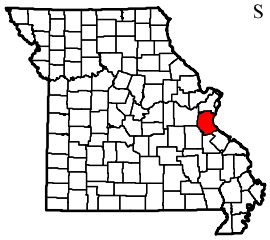

Figure A3. Yard Wide Lead Average
Shapiro Brothers Salvage Site
Festus, Jefferson County, MO

Legend

- Shapiro Brothers Salvage Yard Boundary
- Road
- Railroad

Yard Wide Lead Average

- <230 mg/kg Pb
- 230 - 399 mg/kg Pb
- >400 mg/kg Pb
- Wipe Sample Only

Created on: August 2, 2012 by Shelly Jackson
This map is located at M/Superfund/Shapiro Brothers/Figure3A_YardWideLeadAvg.mxd

Base Map: 2007 Missouri State Leaf-Off Imagery Program.
Flight Date: 2007

Additional Layers: Missouri Department of Transportation, U.S. Census Bureau.

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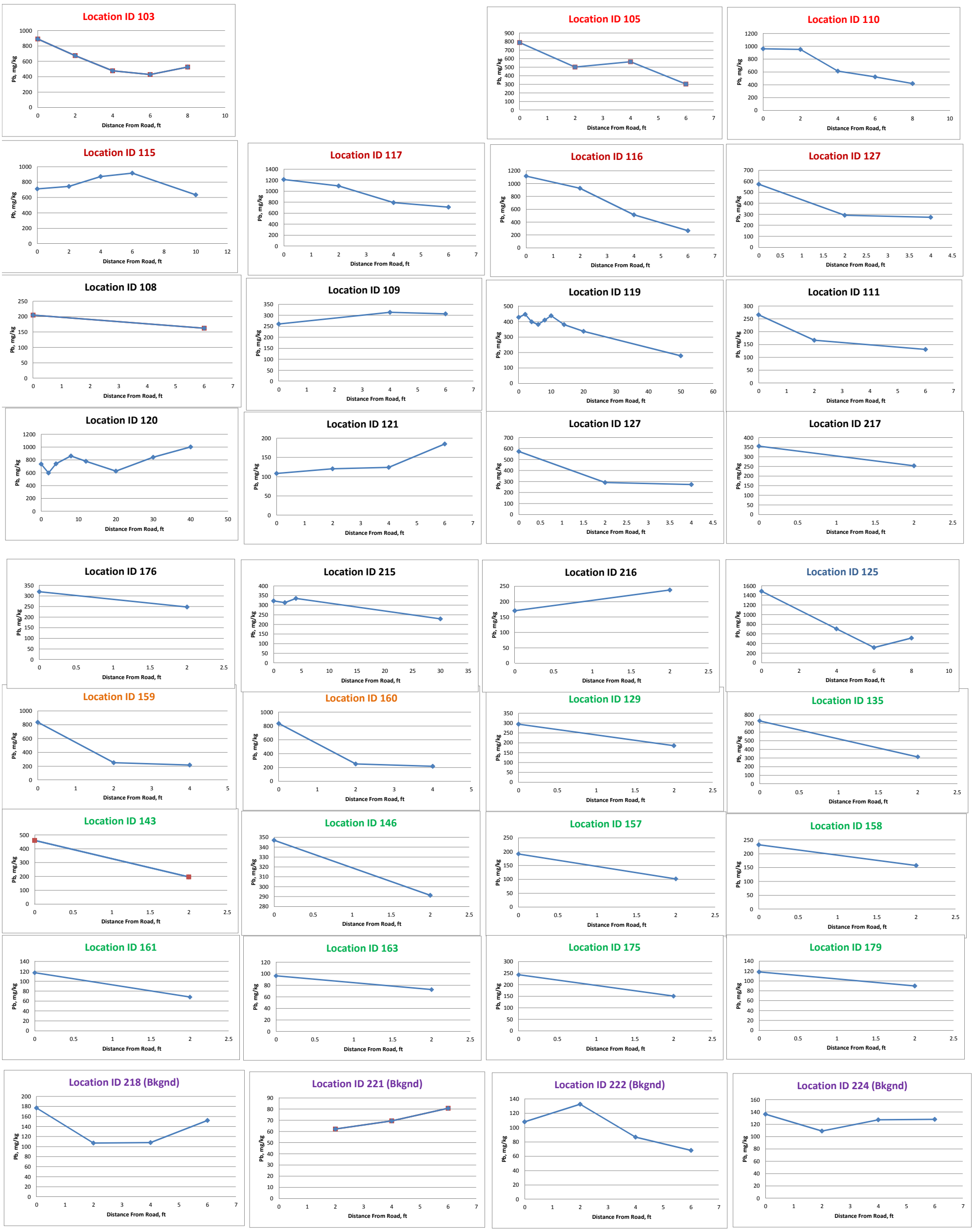
Hazardous Waste Program

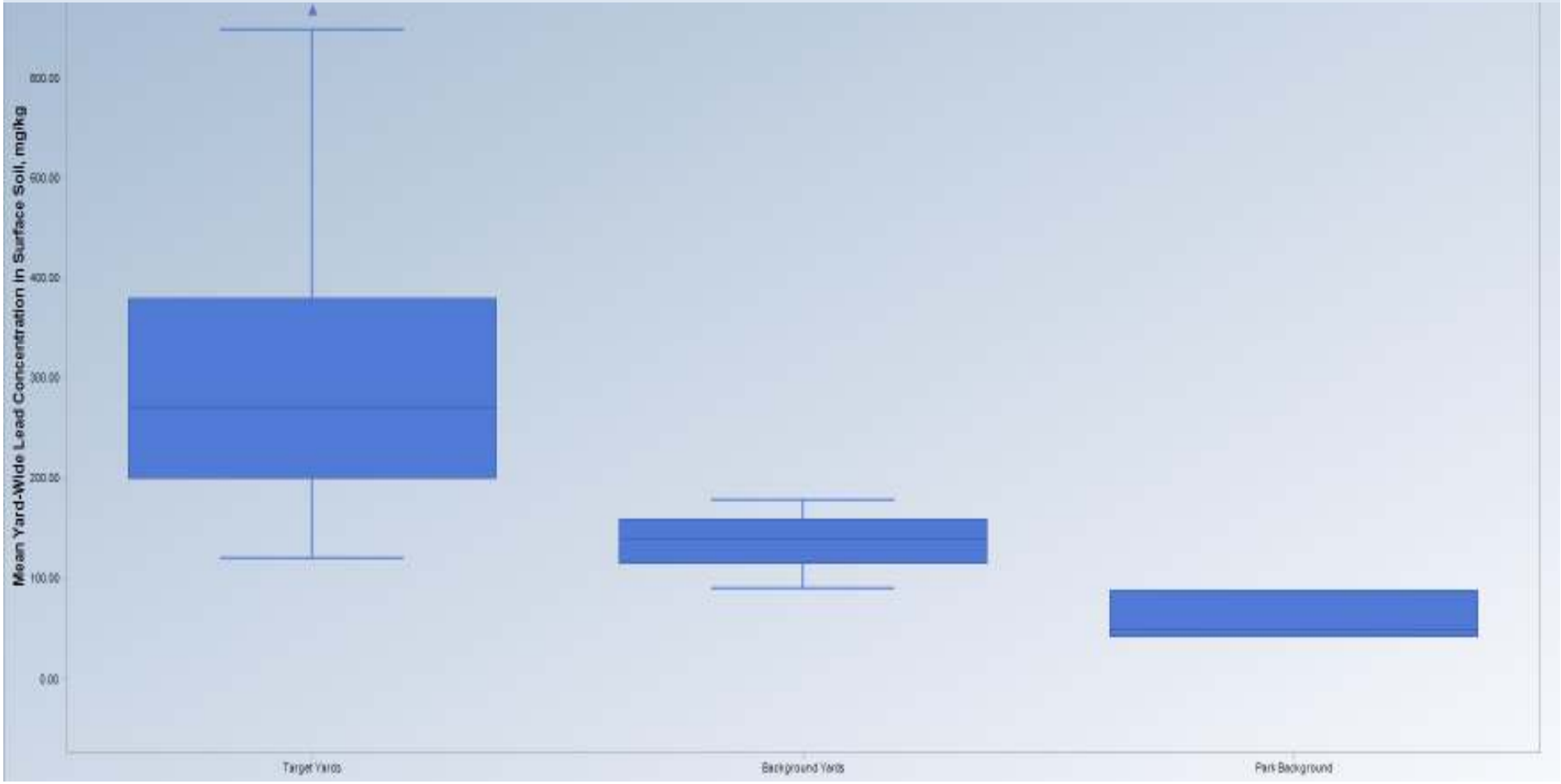
Figure A4. Graphs of Lead Concentration Vs. Distance From Suspected Source Area, In-Situ XRF Analysis
Shapiro Brothers Salvage Site, Festus, Missouri



Color Key:

- Vine
- Delmar
- Kenner
- 12th
- Forrest
- Background

Figure A7
Box Plots Comparing Lead Concentrations in Target Yards to Those in Background Yards and City Parks



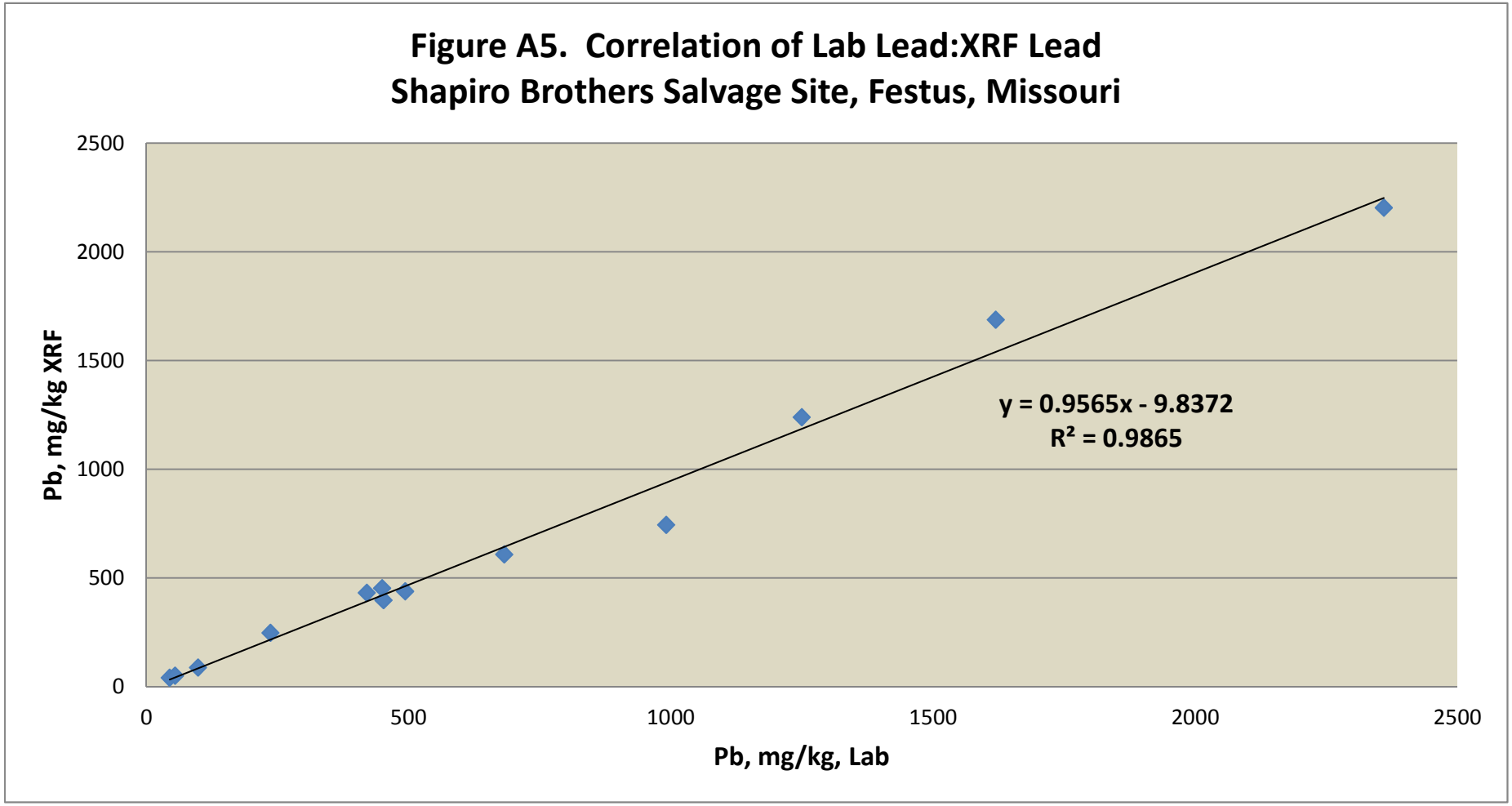
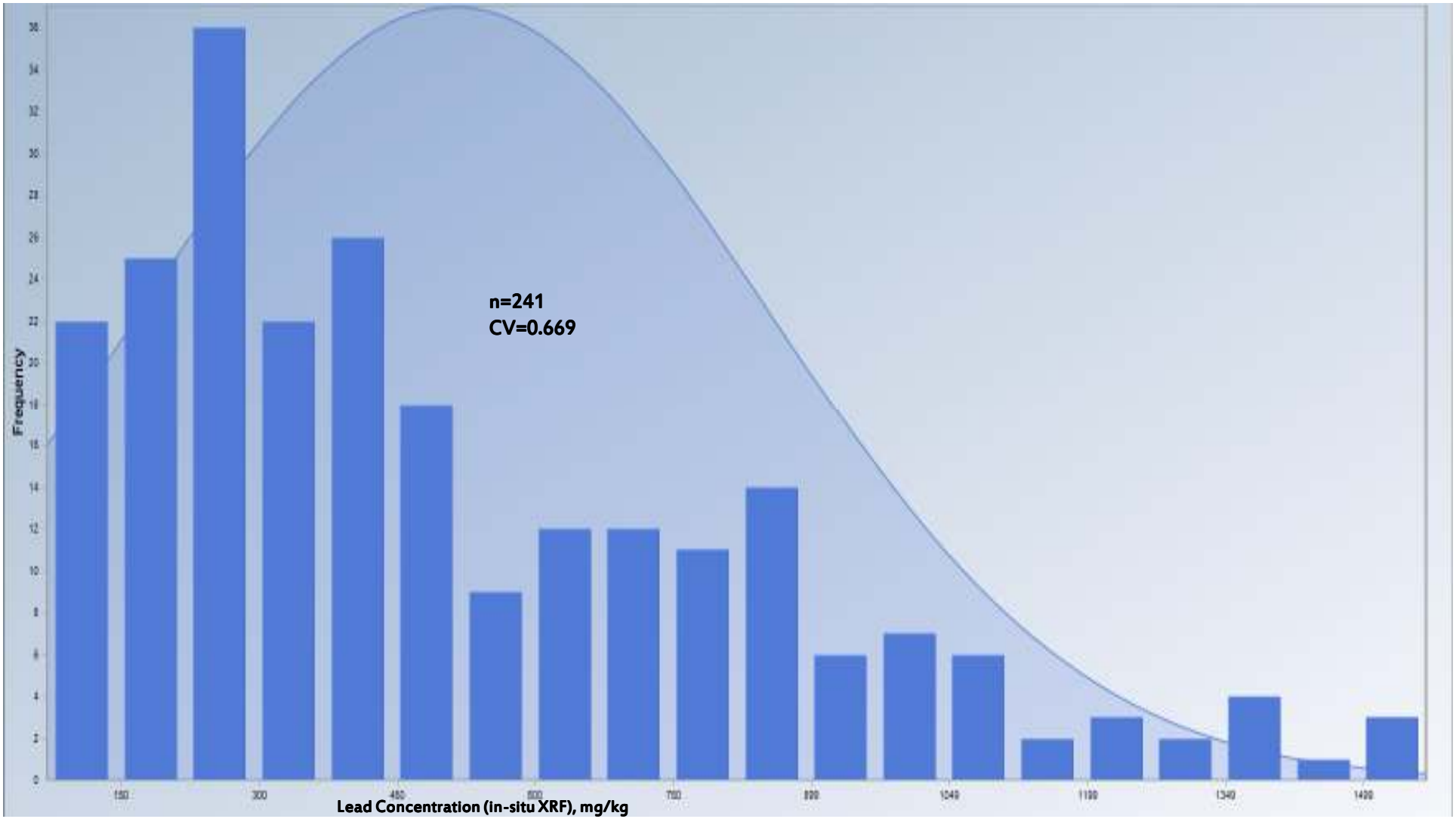


Figure A5. Correlation of Lab Lead:XRF Lead
Shapiro Brothers Salvage Site, Festus, Missouri
Pb, mg/kg XRF
Pb, mg/kg, Lab
y = 0.9565x - 9.8372
R² = 0.9865
0
500
1000
1500
2000
2500

Figure C6. Histogram of Lead Concentration in SU1
Shapiro Brothers Salvage Site, Festus, Missouri



APPENDIX B
PHOTOGRAPHS

Photograph Log
Shapiro Brothers Salvage Site
Site Inspection/Removal Site Evaluation

Photograph 1
Taken April December 20, 2012

Gravel surface in facility materials processing area. View looking north.

Photograph 2
Taken April 9, 2012

Main facility entrance/exit onto 9th Street showing truck wash station in operation. View looking north.

Photograph 3
Taken April 10, 2012

Northern facility entrance/exit onto Vine Street. View looking southeast.

Photograph 4
Taken April 9, 2012

Scrap handling operation along Vine Street. View looking northeast.

Photograph 5
Taken December 20, 2012

Shredder fluff pile releasing steam. View looking east.

Photograph 6
Taken April 10, 2012

Main facility entrance/exit onto 9th Street showing truck tracks.

Photograph 7
Taken April 10, 2012

View along Vine Street looking north. The facility is on the right (east) side of the photo.

Photograph 8
Taken April 10, 2012

Street sweeper operated by the facility traveling along Vine Street near the north facility entrance. View looking North.

Photograph 9
Taken April 10, 2012

Failure of the 12th Street culvert/road collapse near the southeast corner of the facility.

Photograph 10
Taken December 20, 2012

Unnamed tributary of Plattin Creek looking upstream to the north from the 12th Street culvert near the southeast corner of the facility.

Photograph 11
Taken December 20, 2012

Discharge from the facility to the unnamed Plattin Creek tributary along the eastern facility boundary.

Photograph 12
Taken December 20, 2012,

View of the unnamed Plattin Creek tributary from the northeastern facility corner. View looking downstream to the south.

Photograph 13
Taken December 20, 2012

One of the holes in Joachim Plattin Ambulance District Building directly across from the facility shredder (viewed in background).

Photograph 14
Taken December 20, 2012

Some of the material ejected from the facility shredder which has been collected at the Joachim Plattin Ambulance District building

Photograph 15
Taken April x, 2012

Establishing a transect in a residential yard for in-situ XRF analysis.

Photograph 16
Taken April x, 2012

Conducting in-situ XRF analysis along a transect in a residential yard.

Photograph 17
Taken April x, 2012

Collecting an incremental composite soil sample from a residential yard.

Photograph 18
Taken April 9, 2012

Plattin Creek tributary along eastern boundary of the facility showing metal debris in stream bed.

Photograph 19
Taken April 9, 2012

Surface water and sediment sampling location at 12th Sreet bridge (SW01/SD02). View looking east.

Photograph 20
Taken April 9, 2012

Surface water and sediment sampling location at Bailey Road bridge(SW03/SD03). View looking south.

Photograph 21
Taken April 9, 2012

Surface water and sediment sampling location at 6th street bridge (SW02/SD02). View looking south.

Photograph 22
Taken April 9, 2012

Surface water and sediment sampling location at Sunset Park (SW04/SD04). View looking east.

APPENDIX C
TABLES

Table C1: Aquifer Stratigraphy and Hydrology of the Shapiro Brothers Salvage Site

Shaprio Brother Salvage Site, Festus, Missouri

System	Stratigraphic Unit	Thickness (feet)	Lithology	Nature of Porosity and Permeability	Hydraulic Conductivity (cm/sec)	Hydrologic Unit
Post Ordovician	**Soil and Residuum**	50 - 65	Silt and silty clay	Intergranular space throughout matrix; Moderate permeability	1.4×10^{-3} - 4.0×10^{-4}	**None**
Ordovician	**St. Peter Sandstone**	30 - 45	Sandstone	Bedding seperations, fractures, and dissolution features; Moderate permeability	1×10^{-4} - 1×10^{-5}	**Ozark Aquifer**
	Powell Dolomite	80 - 90	Dolomite, cherty dolomite, sandstone, dolomitic sandstone, argillaceous dolomite, and minor shales			
	Jefferson City/Cotter Dolomite	360 - 380				
	Roubidoux Formation	130 - 140				
	Gasconade Dolomite	250 - 260				
Cambrian	**Eminence and Potosi Dolomites**	430 - 450	Medium-crystalline dolomite with sandstone beds			
	Derby-Doe Run Dolomites and Davis Shale	>50	Medium-crystalline dolomite with beds of silt, shale, and sand	Bedding seperations and fractures; Low permeability	1×10^{-8}	**St. Francois Confining Unit**

Data is from Davis, 1969; Imes and Smith, 1990; Imes and Emmett, 1994; and MDNR/DGLS well log records.

Table C2. Selected Analytical Results for Surface Water Samples Collected April 9, 2012
Shapiro Brothers Salvage, Festus, Missouri

- All values listed in parts per billion (ug/l) unless otherwise noted.
- NL denotes benchmark value not listed in reference source.
- NA denotes not analyzed
- Sample results in bold are significantly[1] above background concentrations
- Sample results in shaded cells exceed the lowest SCDM benchmark value

Sample Tag Number	1201180	1201183	1201181	1201182	1201185	SCDM[2]			MO WQS[3]			
Sample ID	SW01	SW01 dup	SW02	SW03	SW04							
Location	12th St. Bridge	12th St. Bridge	6th St. Bridge	Baily Road Bridge	Sunset Pk (Bkgnd)							
Date Collected	04/09/12	04/09/12	04/09/12	04/09/12	04/09/12	MCL	SC	CMC/CCC	DW / GW	Aq. Life	Fish Consmp	Irr. / Lvstock
Laboratory Number	AB70470	AB70473	AB70471	AB70472	AB70475							
Water Quality Indicators												
Dissolved Oxygen	8.0	NA	8.6	7.4	8.3							
Field Temperature	16.5	NA	17.4	18.0	14.6							
Hardness, as CaCO3 Dissolved-N	529.0	505.0	268.0	340.0	440.0	NL	NL	NL	NL	NL	NL	NL
Hardness, as CaCO3-TR-N	485.0	513.0	247.0	337.0	415.0	NL	NL	NL	NL	NL	NL	NL
Oxidation Reduction Potential	54.0	NA	64.0	32.0	.0							
pH	7.51	NA	7.78	7.66	7.88	NL	NL	NL	NL	NL	NL	NL
Specific Conductivity, umhos/cm	1,190.0	NA	734.0	829.0	989.0	NL	NL	NL	NL	NL	NL	NL
Turbidity	1.54	NA	2.03	4.83	1.21							
Metals												
Arsenic	.72 (e)	.84 (e)	1.87	1.7	1.36	10	0.057	NL	50	20	NL	100
Arsenic, dissolved	.99 (e)	1.07	2.04	1.92	1.45	10	0.057	150	50	20	NL	100
Cadmium	**1.02**	**1.39**	**.12 (e)**	<0.1	<0.1	5	18	NL	5	9.1	NL	NL
Cadmium, dissolved	.65	.65	<0.1	<0.1	<0.1	5	18	0.25	5	9.1	NL	NL
Calcium	125.0	119.0	58.5	77.6	101.0	NL	NL	NL	NL	NL	NL	NL
Calcium, dissolved	115.0	121.0	53.8	76.4	95.5	NL	NL	NL	NL	NL	NL	NL
Copper	**25.6**	**29.3**	2.81	5.66	2.41	1300	NL	NL	1300	19	NL	500
Copper, dissolved	**13.2**	**12.7**	2.44	3.92	2.41	1300	NL	9	1300	19	NL	500
Lead	**34.3**	**56.1**	3.26	2.29	3.1	15	NL	NL	15	9	NL	NL
Lead, dissolved	1.25	1.12	<0.5	<0.5	<0.5	15	NL	2.5	15	9	NL	NL
Magnesium	52.6	50.4	29.6	35.5	45.6	NL	NL	NL	NL	NL	NL	NL
Magnesium, dissolved	48.0	51.1	27.4	35.6	42.9	NL	NL	NL	NL	9	NL	NL
Zinc	**59.8**	**69.3**	12.9	12.2	15.3	NL	11000	NL	5000	241	NL	NL
Zinc, dissolved	**40.9**	**40.8**	10.6	12.3	12.6	NL	11000	120	5000	241	NL	NL

[1] Three times the background concentration when contaminant is detected in background sample or three times the method detection limit (MDL) when the background concentration is < MDL.

[2] SCDM - Superfund Chemical Data Matrix, January 28, 2004, maximum contaminant level (MCL), lowest of reference dose and cancer risk screening concentrations (SC) for groundwater/surface water pathway, drinking water , and lower of criteria maximum concentration and criteria continuous concentration (CMC/CCC)

[3] MO WQS - Missouri Water Quality Standards, benchmarks for drinking water, groundwater, protection of aquatic life, fish consumption, and irrigation/livestock watering use categories, Missouri Code of State Regulations, 10 CSR 20-7.031, October 31, 1999.

e - Estimated value, detected below PQL

Table C3: Selected Analytical Results for mSediment Samples Collected April 9, 2012
Shapiro Brothers Salvage Site, Festus, Missouri

- All values listed in parts per million (mg/kg) unless otherwise noted.
- Sample results in bold are significantly[1] above background concentrations
- Sample results in shaded cells exceed the PEC

Sample Tag Number	H100015	H100016	H100017	H100018	H100019	Sediment Quality Guidelines		
Sample ID	SD01	SD dup.	SD02	SD03	SD04			
Date Collected	04/09/12	04/09/12	04/09/12	04/09/12	04/09/12	USGS TEC [2]	USGS PEC [2]	EPA EcoTox [3]
Location	12th St. Bridge	12th St. Bridge	6th St. Bridge	Baily Road Bridge	Sunset Pk (Bkgnd)			
Laboratory Number	AB79149	AB79150	AB79151	AB79152	AB79153			
Metals								
Arsenic	10.0	9.25	9.96	9.58	7.14	9.79	33	8.2
Cadmium	**15.3**	**16.6**	**5.64**	**4.03**	.965	0.99	4.98	1.2
Copper	**446.0**	**388.0**	**125.0**	**138.0**	34.8	31.6	149	34
Lead	**1,560.0**	**1,510.0**	568.0	552.0	387.0	35.8	149	47
Zinc	785.0	788.0	508.0	498.0	1,080.0	121	459	150

[1] Three times the background concentration when contaminant is detected in background sample or three times the method detection limit (MDL) when the background concentration is < MDL.

[2] TEC and PEC - Threshold Effects Concentration and Probable Effects Concentration (TEC and PEC), U.S. Geological Survey Consensus-Based Sediment Quality Guidelines, June 2000

[3] EcoTox - Ecotox Thresholds, EPA Bulletin, EPA/540/F-95/038, January, 1996

Table C4. Summary of XRF Lead Results From Replicate Analyses of Bagged Incremental Composite Samples
Shaprio Brothers Salvage Site, Festus, Missouri

This spreadsheet summarizes replicate XRF analyses on individual bagged soil samples and calculates means, standard deviations, percent relative standard deviations and upper and lower 95% confidence limits. Field Replicate data are summarized in the far right-most columns.

Sample ID & Bagged Replicate Readings — Instrmnt Result (ppm Pb)

Information: **120** Loc ID **1** SU 1 Rep

Bag reading 1	5/10/2012	895
2		861
3		916
4		
	Mean	890.7
	SD	27.8
	%RSD	3.1
	n =	3
2-sided CLs	Section 95%LCL =	822
	Section 95%UCL =	960

Information: **120** Loc ID **2** SU 1 Rep

Bag reading 1	5/10/2012	239
2		208
3		231
4		
	Mean	226.0
	SD	16.1
	%RSD	7.1
	n =	3
	Section 95%LCL =	186
	Section 95%UCL =	266

Information: **175** **1**

Bag reading 1	5/10/2012	140
2		153
3		144
4		
	Mean	145.7
	SD	6.7
	%RSD	4.6
	n =	3
	Section 95%LCL =	129
	Section 95%UCL =	162

Information: **159** **1**

Bag reading 1	5/11/2012	484
2		490
3		487
4		
	Mean	487.0
	SD	3.0
	%RSD	0.6
	n =	3
	Section 95%LCL =	480
	Section 95%UCL =	494

Information: **215** **1**

Bag reading 1	5/11/2012	348
2		362
3		339
4		
	Mean	349.7
	SD	11.6
	%RSD	3.3
	n =	3
	Section 95%LCL =	321
	Section 95%UCL =	378

Information: **121**

Bag reading 1	5/11/2012	248
2		252
3		259
4		
	Mean	253.0
	SD	5.6
	%RSD	2.2
	n =	3
	Section 95%LCL =	239
	Section 95%UCL =	267

Information: **221** **2** 1

Bag reading 1	5/11/2012	123
2		121
3		126
4		
	Mean	123.3
	SD	2.5
	%RSD	2.0
	n =	3
	Section 95%LCL =	117
	Section 95%UCL =	130

Information: **180** **2**

Bag reading 1	5/11/2012	102
2		100
3		109
4		
	Mean	103.7
	SD	4.7
	%RSD	4.6
	n =	3
	Section 95%LCL =	92
	Section 95%UCL =	115

Sample ID & Bagged Replicate Readings — Instrmnt Result (ppm Pb)

Information: 120 Loc ID 1 SU 2 Rep

Bag reading 1	#####	962
2		935
3		940
4		
	Mean	945.7
	SD	14.4
	%RSD	1.5
	n =	3
2-sided CLs	Section 95%LCL =	910
	Section 95%UCL =	981

Information: **120** 2 2

Bag reading 1	#####	237
2		242
3		253
4		
	Mean	244.0
	SD	8.2
	%RSD	3.4
	n =	3
	Section 95%LCL =	224
	Section 95%UCL =	264

Information: 221 2 1

Bag reading 1		123
2		121
3		126
4		
	Mean	123.3
	SD	2.5
	%RSD	2.0
	n =	3
	Section 95%LCL =	117
	Section 95%UCL =	130

Information: **175** 2

Bag reading 1	#####	136
2		130
3		136
4		
	Mean	134.0
	SD	3.5
	%RSD	2.6
	n =	3
	Section 95%LCL =	125
	Section 95%UCL =	143

Information: **159** 2

Bag reading 1	#####	178
2		179
3		185
4		
	Mean	180.7
	SD	3.8
	%RSD	2.1
	n =	3
	Section 95%LCL =	171
	Section 95%UCL =	190

Information: **215** 2

Bag reading 1	#####	217
2		221
3		211
4		
	Mean	216.3
	SD	5.0
	%RSD	2.3
	n =	3
	Section 95%LCL =	204
	Section 95%UCL =	229

Information: **221** 2 2

Bag reading 1	#####	122.7
2		124
3		114
4		
	Mean	122.7
	SD	8.1
	%RSD	6.6
	n =	3
	Section 95%LCL =	103
	Section 95%UCL =	143

Information: **179** 2

Bag reading 1	#####	165
2		168
3		170
4		
	Mean	167.7
	SD	2.5
	%RSD	1.5
	n =	3
	Section 95%LCL =	161
	Section 95%UCL =	174

Sample ID & Bagged Replicate Readings — Instrmnt Result (ppm Pb)

Information: **120** Loc ID 1 SU 3 Rep

Bag reading 1	#####	782
2		824
3		812
4		
	Mean	806.0
	SD	21.6
	%RSD	2.7
	n =	3
2-sided CLs	Section 95%LCL =	752
	Section 95%UCL =	860

Information: 120 2 3

Bag reading 1	#####	251
2		268
3		256
4		
	Mean	258.3
	SD	8.7
	%RSD	3.4
	n =	3
	Section 95%LCL =	237
	Section 95%UCL =	280

Information: 221 2 2

Bag reading 1		130
2		124
3		114
4		
	Mean	122.7
	SD	8.1
	%RSD	6.6
	n =	3
	Section 95%LCL =	103
	Section 95%UCL =	143

Information: **221** 2 3

Bag reading 1		174
2		187
3		161
4		
	Mean	174.0
	SD	13.0
	%RSD	7.5
	n =	3
	Section 95%LCL =	142
	Section 95%UCL =	206

Information: 221 2 3 recisionCheck

Bag reading 1	#####	176
2		173
3		182
4		170
5		175
6		167
7		171
	Mean	173.4
	SD	4.9
	%RSD	2.8
	n =	7
	Section 95%LCL =	169
	Section 95%UCL =	178

Information: 133 1

Bag reading 1		218
2		185
3		202
4		
	Mean	201.7
	SD	16.5
	%RSD	8.2
	n =	3
	Section 95%LCL =	161
	Section 95%UCL =	243

Information: 133 2

Bag reading 1		214
2		206
3		216
4		
	Mean	212.0
	SD	5.3
	%RSD	2.5
	n =	3
	Section 95%LCL =	199
	Section 95%UCL =	225

Information: 221 2 3

Bag reading 1	#####	174
2		187
3		161
4		
	Mean	174.0
	SD	13.0
	%RSD	7.5
	n =	3
	Section 95%LCL =	142
	Section 95%UCL =	206

Information:

Bag reading 1		
2		
3		
4		
	Mean	
	SD	
	%RSD	
	n =	
	Section 95%LCL =	
	Section 95%UCL =	

Information: **120** **SU1** **SU Total**

Rep1		891
Rep2		946
Rep3		806
	Mean	881.0
	SD	70.5
	%RSD	8.0
	n =	3
	Section 95%LCL =	706
	Section 95%UCL =	1056

Information: **120** **SU2** **SU Total**

Rep1		226
Rep2		244
Rep3		258
	Mean	242.7
	SD	16.0
	%RSD	6.6
	n =	3
	Section 95%LCL =	203
	Section 95%UCL =	283

Information: **221** **Su2** **SU totals**

Rep1		123
Rep2		123
Rep3		174
	Mean	140.0
	SD	29.4
	%RSD	21.0
	n =	3
	Section 95%LCL =	67
	Section 95%UCL =	213

Information: **221** **SU2** **SU Total**

Rep1		123
Rep2		123
Rep3		174
	Mean	140.0
	SD	29.4
	%RSD	21.0
	n =	3
	Section 95%LCL =	67
	Section 95%UCL =	213

Table C4. Summary of XRF Lead Results From Replicate Analyses of Bagged Incremental Composite Samples
Shaprio Brothers Salvage Site, Festus, Missouri

This spreadsheet summarizes replicate XRF analyses on individual bagged soil samples and calculates means, standard deviations, percent relative standard deviations and upper and lower 95% confidence limits. Field Replicate data are summarized in the far right-most columns.

Sample ID & Bagged Replicate Readings		Instrmnt Result (ppm Pb)
Information: 218		2
Bag reading 1	5/11/2012	181
2		171
3		173
4		
Mean		175.0
SD		5.3
%RSD		3.0
n =		3
Section 95%LCL =		162
Section 95%UCL =		188

Sample ID & Bagged Replicate Readings		Instrmnt Result (ppm Pb)
Information: 222		2
Bag reading 1	#####	89
2		93
3		98
4		
Mean		93.3
SD		4.5
%RSD		4.8
n =		3
Section 95%LCL =		82
Section 95%UCL =		105

Sample ID & Bagged Replicate Readings		Instrmnt Result (ppm Pb)
Information: 157		2
Bag reading 1	######	99
2		99
3		93
4		
Mean		97.0
SD		3.5
%RSD		3.6
n =		3
Section 95%LCL =		88
Section 95%UCL =		106

Information: 158		2
Bag reading 1	5/11/2012	163
2		167
3		146
4		
Mean		158.7
SD		11.2
%RSD		7.0
n =		3
Section 95%LCL =		131
Section 95%UCL =		186

Information: 161		2
Bag reading 1	#####	78
2		86
3		94
4		
Mean		86.0
SD		8.0
%RSD		9.3
n =		3
Section 95%LCL =		66
Section 95%UCL =		106

Information: 164		2
Bag reading 1	######	115
2		119
3		121
4		
Mean		118.3
SD		3.1
%RSD		2.6
n =		3
Section 95%LCL =		111
Section 95%UCL =		126

Information: 224		2
Bag reading 1		128
2		151
3		141
4		
Mean		140.0
SD		11.5
%RSD		8.2
n =		3
Section 95%LCL =		111
Section 95%UCL =		169

Information: ty street sweeping		
Bag reading 1	#####	182
2		182
3		190
4		
Mean		184.7 #DIV/0!
SD		4.6 #DIV/0!
%RSD		2.5
n =		3 0
Section 95%LCL =		173 #DIV/0!
Section 95%UCL =		196 #DIV/0!

Information: 129		1
Bag reading 1		177
2		172
3		180
4		
Mean		176.3
SD		4.0
%RSD		2.3
n =		3
Section 95%LCL =		166
Section 95%UCL =		186

Information: 148		1
Bag reading 1		184
2		193
3		193
4		
Mean		190.0
SD		5.2
%RSD		2.7
n =		3
Section 95%LCL =		177
Section 95%UCL =		203

Information: 148		2
Bag reading 1		130
2		139
3		130
4		
Mean		133.0
SD		5.2
%RSD		3.9
n =		3
Section 95%LCL =		120
Section 95%UCL =		146

Information: 106		1
Bag reading 1		531
2		597
3		554
4		
Mean		560.7
SD		33.5
%RSD		6.0
n =		3
Section 95%LCL =		477
Section 95%UCL =		644

Information: 129		2
Bag reading 1		161
2		169
3		165
4		
Mean		165.0
SD		4.0
%RSD		2.4
n =		3
Section 95%LCL =		155
Section 95%UCL =		175

Information: 176		2
Bag reading 1		257
2		244
3		251
4		
Mean		250.7
SD		6.5
%RSD		2.6
n =		3
Section 95%LCL =		235
Section 95%UCL =		267

Information: 106		2	Information: 116	1	SU Total
Bag reading 1		210	Rep1		1957
2		212	Rep2		1801
3		195	Rep3		1970
4					
Mean		205.7		Mean	1909.3
SD		9.3		SD	94.0
%RSD		4.5		%RSD	4.9
n =		3		n =	3
Section 95%LCL =		183		Section 95%LCL =	1676
Section 95%UCL =		229		Section 95%UCL =	2143

Information: 155		1
Bag reading 1		269
2		250
3		263
4		
Mean		260.7
SD		9.7
%RSD		3.7
n =		3
Section 95%LCL =		237
Section 95%UCL =		285

Information: 155		2
Bag reading 1		189
2		212
3		208
4		
Mean		203.0
SD		12.3
%RSD		6.1
n =		3
Section 95%LCL =		172
Section 95%UCL =		234

Information: 135		1
Bag reading 1		282
2		288
3		307
4		
Mean		292.3
SD		13.1
%RSD		4.5
n =		3
Section 95%LCL =		260
Section 95%UCL =		325

Information: 116		2	SU Total
Rep1			238
Rep2			239
Rep3			222
		Mean	233.0
		SD	9.5
		%RSD	4.1
		n =	3
		Section 95%LCL =	209
		Section 95%UCL =	257

Information: 135		2
Bag reading 1		135
2		132
3		128
4		
Mean		131.7
SD		3.5
%RSD		2.7
n =		3
Section 95%LCL =		123
Section 95%UCL =		140

Information: 116	Y1	1
Bag reading 1		318
2		338
3		329
4		
Mean		328.3
SD		10.0
%RSD		3.1
n =		3
Section 95%LCL =		303
Section 95%UCL =		353

Information: 116	Y1	2
Bag reading 1		293
2		297
3		265
4		
Mean		285.0
SD		17.4
%RSD		6.1
n =		3
Section 95%LCL =		242
Section 95%UCL =		328

Information: 116	Y1	Y Totals
Rep1		328
Rep2		285
Rep3		329
	Mean	314.0
	SD	25.1
	%RSD	8.0
	n =	3
	Section 95%LCL =	252
	Section 95%UCL =	376

Information: 116	Y1	3
Bag reading 1		328
2		335
3		324
4		
Mean		329.0
SD		5.6
%RSD		1.7
n =		3
Section 95%LCL =		315
Section 95%UCL =		343

Information: 116	Y2	1
Bag reading 1		227
2		243
3		242
4		229
Mean		235.3
SD		8.4
%RSD		3.6
n =		4
Section 95%LCL =		222
Section 95%UCL =		249

Information: 116	Y2	2
Bag reading 1		173
2		184
3		175
4		
Mean		177.3
SD		5.9
%RSD		3.3
n =		3
Section 95%LCL =		163
Section 95%UCL =		192

Information: 116	Y2	Y Totals
Rep1		235
Rep2		177
Rep3		210
	Mean	207.3
	SD	29.1
	%RSD	14.0
	n =	3
	Section 95%LCL =	135
	Section 95%UCL =	280

Information: 116	Loc ID Y2	SU	Rep 3
Bag reading 1			210
2			218
3			202
4			
Mean			210.0
SD			8.0
%RSD			3.8
n =			3
Section 95%LCL =			190
Section 95%UCL =			230

Information: 146	Loc ID 1	SU 1	Rep 1
Bag reading 1			390
2			397
3			398
4			391
5			412
6			382
Mean			395.0
SD			10.1
%RSD			2.6
n =			6
Section 95%LCL =			384
Section 95%UCL =			406

Information: 146	Loc ID 1	SU 1	Rep 2
Bag reading 1			380
2			399
3			380
4			
Mean			386.3
SD			11.0
%RSD			2.8
n =			3
Section 95%LCL =			359
Section 95%UCL =			414

Information: 146	Su2	SU totals
Rep1		578
Rep2		479
Rep3		415
	Mean	490.7
	SD	82.1
	%RSD	16.7
	n =	3
	Section 95%LCL =	287
	Section 95%UCL =	695

Information: 146	1	3
Bag reading 1		386
2		387
3		390
4		
Mean		387.7
SD		2.1
%RSD		0.5
n =		3
Section 95%LCL =		382
Section 95%UCL =		393

Information: 146	Y1	1
Bag reading 1		369
2		347
3		352
4		
Mean		356.0
SD		11.5
%RSD		3.2
n =		3
Section 95%LCL =		327
Section 95%UCL =		385

Information: 146	Y1	2
Bag reading 1		300
2		286
3		296
4		
Mean		294.0
SD		7.2
%RSD		2.5
n =		3
Section 95%LCL =		276
Section 95%UCL =		312

Information: 146	SU1	SU totals
Rep1		395
Rep2		386
Rep3		388
	Mean	389.7
	SD	4.7
	%RSD	1.2
	n =	3
	Section 95%LCL =	378
	Section 95%UCL =	401

Table C4. Summary of XRF Lead Results From Replicate Analyses of Bagged Incremental Composite Samples
Shaprio Brothers Salvage Site, Festus, Missouri

This spreadsheet summarizes replicate XRF analyses on individual bagged soil samples and calculates means, standard deviations, percent relative standard deviations and upper and lower 95% confidence limits. Field Replicate data are summarized in the far right-most columns.

Sample ID & Bagged Replicate Readings	Instrmnt Result (ppm Pb)
Information: 146 Y1 3	
Bag reading 1	305
2	289
3	289
4	
Mean	294.3
SD	9.2
%RSD	3.1
n =	3
Section 95%LCL =	271
Section 95%UCL =	317

Sample ID & Bagged Replicate Readings	Instrmnt Result (ppm Pb)
Information: 146 Y2 1	
Bag reading 1	442
2	424
3	442
4	
Mean	436.0
SD	10.4
%RSD	2.4
n =	3
Section 95%LCL =	410
Section 95%UCL =	462

Sample ID & Bagged Replicate Readings	Instrmnt Result (ppm Pb)
Information: 146 Y2 2	
Bag reading 1	401
2	409
3	400
4	391
5	376
6	411
7	428
8	437
9	406
Mean	406.6
SD	18.2
%RSD	4.5
n =	9
Section 95%LCL =	393
Section 95%UCL =	421

Information: 146 Y1	Y totals
Rep1	356
Rep2	294
Rep3	294
Mean	314.7
SD	35.8
%RSD	11.4
n =	3
Section 95%LCL =	226
Section 95%UCL =	404

Information: 146 Y2 3	
Bag reading 1	423
2	418
3	404
4	
Mean	415.0
SD	9.8
%RSD	2.4
n =	3
Section 95%LCL =	391
Section 95%UCL =	439

Information: 146 2 1	
Bag reading 1	575
2	588
3	571
4	
Mean	578.0
SD	8.9
%RSD	1.5
n =	3
Section 95%LCL =	556
Section 95%UCL =	600

Information: 146 2 2	
Bag reading 1	480
2	478
3	478
4	
Mean	478.7
SD	1.2
%RSD	0.2
n =	3
Section 95%LCL =	476
Section 95%UCL =	482

Information: 146 Y2	Y totals
Rep1	436
Rep2	406
Rep3	415
Mean	419.0
SD	15.4
%RSD	3.7
n =	3
Section 95%LCL =	381
Section 95%UCL =	457

Information: 146	Loc ID 2	SU 3	Rep
Bag reading 1	568		
2	557		
3	565		
4			
Mean	563.3		
SD	5.7		
%RSD	1.0		
n =	3		
Section 95%LCL =	549		
Section 95%UCL =	577		

Information: 146	Loc ID 1	SU 1	Rep QC1
Bag reading 1	399		
2	412		
3	392		
4	407		
5	395		
6	399		
7	427		
Mean	404.4		
SD	12.1		
%RSD	3.0		
n =	7		
Section 95%LCL =	393		
Section 95%UCL =	416		

Information: 125 1 1	
Bag reading 1	1205
2	1264
3	1229
4	
Mean	1232.7
SD	29.7
%RSD	2.4
n =	3
Section 95%LCL =	1159
Section 95%UCL =	1306

Information: 125 1 2	
Bag reading 1	1196
2	1214
3	1166
4	1199
5	1157
6	1138
Mean	1178.3
SD	29.1
%RSD	2.5
n =	6
Section 95%LCL =	1148
Section 95%UCL =	1209

Information: 125 1 3	
Bag reading 1	1093
2	1131
3	1192
4	
Mean	1138.7
SD	49.9
%RSD	4.4
n =	3
Section 95%LCL =	1015
Section 95%UCL =	1263

Information: 125 SU1	Su total
Rep1	1233
Rep2	1178
Rep3	1139
Mean	1183.3
SD	47.2
%RSD	4.0
n =	3
Section 95%LCL =	1066
Section 95%UCL =	1301

Information: 125 2 1	
Bag reading 1	314
2	333
3	318
4	
Mean	321.7
SD	10.0
%RSD	3.1
n =	3
Section 95%LCL =	297
Section 95%UCL =	347

Information: 125 2 2	
Bag reading 1	328
2	312
3	308
4	
Mean	316.0
SD	10.6
%RSD	3.3
n =	3
Section 95%LCL =	299
Section 95%UCL =	342

Information: 125 2 3	
Bag reading 1	312
2	330
3	325
4	
Mean	322.3
SD	9.3
%RSD	2.9
n =	3
Section 95%LCL =	299
Section 95%UCL =	345

Information: 125 2	SU Total
Rep1	322
Rep2	316
Rep3	322
Mean	320.0
SD	3.5
%RSD	1.1
n =	3
Section 95%LCL =	311
Section 95%UCL =	329

Information: 125 Y1 1	
Bag reading 1	620
2	659
3	587
4	
Mean	622.0
SD	36.0
%RSD	5.8
n =	3
2-sided CLs Section 95%LCL =	532
Section 95%UCL =	712

Information: 125 Y1 2	
Bag reading 1	382
2	368
3	373
4	
Mean	374.3
SD	7.1
%RSD	1.9
n =	3
2-sided CLs Section 95%LCL =	357
Section 95%UCL =	392

Information: 125 Y1 3	
Bag reading 1	875
2	855
3	857
4	
Mean	862.3
SD	11.0
%RSD	1.3
n =	3
2-sided CLs Section 95%LCL =	835
Section 95%UCL =	890

Information: 125 Y1	Y Totals
Rep1	622
Rep2	374
Rep3	862
Mean	619.3
SD	244.0
%RSD	39.4
n =	3
Section 95%LCL =	13
Section 95%UCL =	1225

Information: 125 Y2 1	
Bag reading 1	201
2	193
3	174
4	
Mean	189.3
SD	13.9
%RSD	7.3
n =	3
Section 95%LCL =	155
Section 95%UCL =	224

Information: 125 Y2 2	
Bag reading 1	221
2	212
3	210
4	
Mean	214.3
SD	5.9
%RSD	2.7
n =	3
Section 95%LCL =	200
Section 95%UCL =	229

Information: 125 Y2 3	
Bag reading 1	244
2	247
3	259
4	
Mean	250.0
SD	7.9
%RSD	3.2
n =	3
Section 95%LCL =	230
Section 95%UCL =	270

Information: 125 Y2	Y Totals
Rep1	189
Rep2	214
Rep3	250
Mean	217.7
SD	30.7
%RSD	14.1
n =	3
Section 95%LCL =	141
Section 95%UCL =	294

Information: 125 Y3 1	
Bag reading 1	290
2	326
3	316
4	
Mean	310.7
SD	18.6
%RSD	6.0
n =	3
Section 95%LCL =	265
Section 95%UCL =	357

Information: 125 Y3 2	
Bag reading 1	271
2	270
3	267
4	
Mean	269.3
SD	2.1
%RSD	0.8
n =	3
Section 95%LCL =	264
Section 95%UCL =	275

Information: 125 Y3 3	
Bag reading 1	324
2	315
3	325
4	
Mean	321.3
SD	5.5
%RSD	1.7
n =	3
Section 95%LCL =	308
Section 95%UCL =	335

Information: 125 Y3	Y Totals
Rep1	311
Rep2	269
Rep3	321
Mean	300.3
SD	27.6
%RSD	9.2
n =	3
Section 95%LCL =	232
Section 95%UCL =	369

Information: 115 1 1	
Bag reading 1	2093
2	2268
3	2057
4	
Mean	2139.3
SD	112.9
%RSD	5.3
n =	3
Section 95%LCL =	1859
Section 95%UCL =	2420

Information: 115 1 1 QC1	
Bag reading 1	2001
2	1999
3	2090
4	2088
5	2068
6	2050
7	2006
Mean	2043.1
SD	40.8
%RSD	2.0
n =	7
Section 95%LCL =	2005
Section 95%UCL =	2081

Information: 115 1 2	
Bag reading 1	2105
2	2018
3	2045
4	
Mean	2056.0
SD	44.5
%RSD	2.2
n =	3
Section 95%LCL =	1945
Section 95%UCL =	2167

Table C4. Summary of XRF Lead Results From Replicate Analyses of Bagged Incremental Composite Samples
Shaprio Brothers Salvage Site, Festus, Missouri

This spreadsheet summarizes replicate XRF analyses on individual bagged soil samples and calculates means, standard deviations, percent relative standard deviations and upper and lower 95% confidence limits. Field Replicate data are summarized in the far right-most columns.

Sample ID & Bagged Replicate Readings — Instrmnt Result (ppm Pb)

Information: 115	1	3
Bag reading 1	2073	
2	2186	
3	2195	
4		
Mean	2151.3	
SD	68.0	
%RSD	3.2	
n =	3	
Section 95%LCL =	1982	
Section 95%UCL =	2320	

Information: 115	2	1
Bag reading 1	478	
2	497	
3	488	
4		
Mean	487.7	
SD	9.5	
%RSD	1.9	
n =	3	
Section 95%LCL =	464	
Section 95%UCL =	511	

Information: 115	2	2	Information: 115	1	SU Total
Bag reading 1	463		Rep1		2139
2	466		Rep2		2056
3	481		Rep3		2151
4					
Mean	470.0			Mean	2115.3
SD	9.6			SD	51.7
%RSD	2.1			%RSD	2.4
n =	3			n =	3
Section 95%LCL =	446			Section 95%LCL =	1987
Section 95%UCL =	494			Section 95%UCL =	2244

Information: 115	2	3
Bag reading 1	506	
2	491	
3	523	
4		
Mean	506.7	
SD	16.0	
%RSD	3.2	
n =	3	
Section 95%LCL =	467	
Section 95%UCL =	546	

Information: 143	1
Bag reading 1	270
2	261
3	274
4	
Mean	268.3
SD	6.7
%RSD	2.5
n =	3
Section 95%LCL =	252
Section 95%UCL =	285

Information: 143	2	Information: 115	2	SU Total
Bag reading 1	435	Rep1		488
2	462	Rep2		470
3	438	Rep3		507
4				
Mean	445.0		Mean	488.3
SD	14.8		SD	18.5
%RSD	3.3		%RSD	3.8
n =	3		n =	3
Section 95%LCL =	408		Section 95%LCL =	442
Section 95%UCL =	482		Section 95%UCL =	534

Information: 143	3
Bag reading 1	364
2	356
3	357
4	
Mean	359.0
SD	4.4
%RSD	1.2
n =	3
Section 95%LCL =	348
Section 95%UCL =	370

Information: 117	1
Bag reading 1 #####	1677
2	1708
3	1678
4	
Mean	1687.7
SD	17.6
%RSD	1.0
n =	3
Section 95%LCL =	1644
Section 95%UCL =	1731

Information: 108	2
Bag reading 1	230
2	235
3	226
4	
Mean	230.3
SD	4.5
%RSD	2.0
n =	3
Section 95%LCL =	219
Section 95%UCL =	242

Information: 109	2
Bag reading 1	298
2	281
3	285
4	
Mean	288.0
SD	8.9
%RSD	3.1
n =	3
Section 95%LCL =	266
Section 95%UCL =	310

Information: 111	2
Bag reading 1	166
2	176
3	165
4	
Mean	169.0
SD	6.1
%RSD	3.6
n =	3
Section 95%LCL =	154
Section 95%UCL =	184

Information: 216	2
Bag reading 1	440
2	457
3	431
4	
Mean	442.7
SD	13.2
%RSD	3.0
n =	3
Section 95%LCL =	410
Section 95%UCL =	475

Information: 133	Y1
Bag reading 1	159
2	148
3	150
4	
Mean	152.3
SD	5.9
%RSD	3.8
n =	3
Section 95%LCL =	138
Section 95%UCL =	167

Information: 133	Y2
Bag reading 1	296
2	294
3	298
4	
Mean	296.0
SD	2.0
%RSD	0.7
n =	3
Section 95%LCL =	291
Section 95%UCL =	301

Information: 133	Y3
Bag reading 1	166
2	155
3	196
4	
Mean	172.3
SD	21.2
%RSD	12.3
n =	3
Section 95%LCL =	120
Section 95%UCL =	225

Information: 116	1	1
Bag reading 1	2002	
2	1958	
3	1910	
4		
Mean	1956.7	
SD	46.0	
%RSD	2.4	
n =	3	
Section 95%LCL =	1842	
Section 95%UCL =	2071	

Information: 116	1	2
Bag reading 1	1821	
2	1734	
3	1847	
4		
Mean	1800.7	
SD	59.2	
%RSD	3.3	
n =	3	
Section 95%LCL =	1654	
Section 95%UCL =	1948	

Information: 116	1	3
Bag reading 1	1982	
2	1991	
3	1937	
4		
Mean	1970.0	
SD	28.9	
%RSD	1.5	
n =	3	
Section 95%LCL =	1898	
Section 95%UCL =	2042	

	Loc ID	SU	Rep
Information: 116	2	1	
Bag reading 1		239	
2		236	
3		239	
4			
Mean		238.0	
SD		1.7	
%RSD		0.7	
n =		3	
2-sided CLs Section 95%LCL =		234	
Section 95%UCL =		242	

	Loc ID	SU	Rep
Information: 116	2	2	
Bag reading 1		239	
2		239	
3		240	
4			
Mean		239.3	
SD		0.6	
%RSD		0.2	
n =		3	
2-sided CLs Section 95%LCL =		238	
Section 95%UCL =		241	

	Loc ID	SU	Rep
Information: 116	2	3	
Bag reading 1		238	
2		212	
3		217	
4			
Mean		222.3	
SD		13.8	
%RSD		6.2	
n =		3	
2-sided CLs Section 95%LCL =		188	
Section 95%UCL =		257	

Information: 124	Y1	1
Bag reading 1	228	
2	217	
3	224	
4		
Mean	223.0	
SD	5.6	
%RSD	2.5	
n =	3	
Section 95%LCL =	209	
Section 95%UCL =	237	

Information: 124	Y1	2
Bag reading 1	195	
2	181	
3	192	
4		
Mean	189.3	
SD	7.4	
%RSD	3.9	
n =	3	
Section 95%LCL =	171	
Section 95%UCL =	208	

Information: 124	Y1	3	Information: 124	Y1	Y Totals
Bag reading 1	225		Rep1		223
2	220		Rep2		189
3	229		Rep3		225
4					
Mean	224.7			Mean	212.3
SD	4.5			SD	20.2
%RSD	2.0			%RSD	9.5
n =	3			n =	3
Section 95%LCL =	213			Section 95%LCL =	162
Section 95%UCL =	236			Section 95%UCL =	263

Information: 124	Y2	1
Bag reading 1	275	
2	268	
3	258	
4		
Mean	267.0	
SD	8.5	
%RSD	3.2	
n =	3	
Section 95%LCL =	246	
Section 95%UCL =	288	

Information: 124	Y2	2
Bag reading 1	331	
2	319	
3	320	
4	304	
5	327	
6	333	
7	318	
8	336	
Mean	323.5	
SD	10.4	
%RSD	3.2	
n =	8	
Section 95%LCL =	315	
Section 95%UCL =	332	

Information: 124	Y2	Y Totals
Rep1		267
Rep2		323
Rep3		261
	Mean	283.7
	SD	34.2
	%RSD	12.1
	n =	3
	Section 95%LCL =	199
	Section 95%UCL =	369

Information: 124	Y2	3
Bag reading 1	235	
2	279	
3	268	
4	261	
Mean	260.8	
SD	18.7	
%RSD	7.2	
n =	4	
Section 95%LCL =	231	
Section 95%UCL =	291	

Information: 124	P1	1
Bag reading 1	415	
2	415	
3	437	
4		
Mean	422.3	
SD	12.7	
%RSD	3.0	
n =	3	
Section 95%LCL =	391	
Section 95%UCL =	454	

Information: 124	P1	2	Information: 124	P1/SU4	P Totals
Bag reading 1	396		Rep1	Note: P1 same as SU4	477
2	388		Rep2		429
3	439		Rep3		392
4	422				
5	415				
6	407				
7	404			Mean	432.7
8	431			SD	42.6
9	433			%RSD	9.9
10	425			n =	3
Mean	416.0			Section 95%LCL =	327
SD	16.9			Section 95%UCL =	539
%RSD	4.1				
n =	10				
Section 95%LCL =	404				
Section 95%UCL =	428				

Table C4. Summary of XRF Lead Results From Replicate Analyses of Bagged Incremental Composite Samples
Shaprio Brothers Salvage Site, Festus, Missouri

This spreadsheet summarizes replicate XRF analyses on individual bagged soil samples and calculates means, standard deviations, percent relative standard deviations and upper and lower 95% confidence limits. Field Replicate data are summarized in the far right-most columns.

Sample ID & Bagged Replicate Readings	Instrmnt Result (ppm Pb)
Information: 124 P1 3	
Bag reading 1	488
2	485
3	503
4	
Mean	492.0
SD	9.6
%RSD	2.0
n =	3
Section 95%LCL =	468
Section 95%UCL =	516

Sample ID & Bagged Replicate Readings	Instrmnt Result (ppm Pb)
Information: 124 P1 3 QC1	
Bag reading 1	470
2	475
3	476
4	499
5	482
6	502
7	475
Mean	482.7
SD	12.7
%RSD	2.6
n =	7
Section 95%LCL =	471
Section 95%UCL =	494

Sample ID & Bagged Replicate Readings	Instrmnt Result (ppm Pb)
Information: 124 2 1	
Bag reading 1	252
2	241
3	249
4	
Mean	247.3
SD	123.3
%RSD	49.8
n =	3
Section 95%LCL =	-59
Section 95%UCL =	554

Information: 124 2 2	
Bag reading 1	233
2	246
3	249
4	
Mean	242.7
SD	8.5
%RSD	3.5
n =	3
Section 95%LCL =	222
Section 95%UCL =	264

Information: 124 2 3	
Bag reading 1	264
2	286
3	305
4	
Mean	285.0
SD	20.5
%RSD	7.2
n =	3
Section 95%LCL =	234
Section 95%UCL =	336

Information: 124 4 1	
Bag reading 1	474
2	482
3	475
4	
Mean	477.0
SD	4.4
%RSD	0.9
n =	3
Section 95%LCL =	466
Section 95%UCL =	488

Information: 124 SU2 SU Total	
Rep1	247
Rep2	243
Rep3	285
Mean	258.3
SD	23.2
%RSD	9.0
n =	3
Section 95%LCL =	201
Section 95%UCL =	316

Information: 124 4 2	
Bag reading 1	428
2	428
3	431
4	
Mean	429.0
SD	1.7
%RSD	0.4
n =	3
Section 95%LCL =	425
Section 95%UCL =	433

Information: 124 4 3	
Bag reading 1	378
2	385
3	409
4	407
5	396
6	388
7	399
8	387
9	382
Mean	392.3
SD	11.0
%RSD	2.8
n =	9
Section 95%LCL =	384
Section 95%UCL =	401

Information:	
Bag reading 1	
2	
3	
4	
Mean	
SD	
%RSD	
n =	
Section 95%LCL =	
Section 95%UCL =	

Information: 120 1 1	
Bag reading 1	895
2	861
3	916
4	
Mean	890.7
SD	27.8
%RSD	3.1
n =	3
Section 95%LCL =	822
Section 95%UCL =	960

Information: 120 1 2	
Bag reading 1	962
2	935
3	940
4	
Mean	945.7
SD	14.4
%RSD	1.5
n =	3
Section 95%LCL =	910
Section 95%UCL =	981

Information: 120 1 3	
Bag reading 1	782
2	824
3	812
4	
Mean	806.0
SD	21.6
%RSD	2.7
n =	3
Section 95%LCL =	752
Section 95%UCL =	860

Information: 120 SU1 SU Total	
Rep1	891
Rep2	946
Rep3	806
Mean	881.0
SD	70.5
%RSD	8.0
n =	3
Section 95%LCL =	706
Section 95%UCL =	1056

Information: 120 2 1	
Bag reading 1	239
2	208
3	231
4	
Mean	226.0
SD	16.1
%RSD	7.1
n =	3
Section 95%LCL =	186
Section 95%UCL =	266

Information: 120 2 2	
Bag reading 1	237
2	242
3	253
4	
Mean	244.0
SD	8.2
%RSD	3.4
n =	3
Section 95%LCL =	224
Section 95%UCL =	264

Information: 120 2 3	
Bag reading 1	251
2	268
3	256
4	
Mean	258.3
SD	8.7
%RSD	3.4
n =	3
Section 95%LCL =	237
Section 95%UCL =	280

Information: 120 SU2 SU Total	
Rep1	226
Rep2	244
Rep3	258
Mean	242.7
SD	16.0
%RSD	6.6
n =	3
Section 95%LCL =	203
Section 95%UCL =	283

Information: 175 1	
Bag reading 1	140
2	153
3	144
4	
Mean	145.7
SD	6.7
%RSD	4.6
n =	3
Section 95%LCL =	129
Section 95%UCL =	162

Information: 175 2	
Bag reading 1	136
2	130
3	136
4	
Mean	134.0
SD	3.5
%RSD	2.6
n =	3
Section 95%LCL =	125
Section 95%UCL =	143

Information: Sed 1	
Bag reading 1	1340
2	1499
3	1480
4	
Mean	1439.7
SD	86.8
%RSD	6.0
n =	3
Section 95%LCL =	1224
Section 95%UCL =	1655

Information: Sed 1 Dup	
Bag reading 1	1466
2	1452
3	1431
4	1459
5	1416
6	1446
7	1414
8	1460
9	1491
10	1212
Mean	1424.7
SD	78.3
%RSD	5.5
n =	10
Section 95%LCL =	1369
Section 95%UCL =	1481

Information: Sed 2	
Bag reading 1	454
2	362
3	460
4	422
5	406
6	382
Mean	414.3
SD	38.9
%RSD	9.4
n =	6
Section 95%LCL =	373
Section 95%UCL =	455

Information: Sed 3	
Bag reading 1	549
2	592
3	476
4	518
5	553
6	488
Mean	529.3
SD	43.7
%RSD	8.3
n =	6
Section 95%LCL =	483
Section 95%UCL =	575

Information: Sed 4	
Bag reading 1	339
2	297
3	279
4	
Mean	305.0
SD	30.8
%RSD	10.1
n =	3
Section 95%LCL =	229
Section 95%UCL =	381

Loc ID	SU	Rep
Information: 160	**1**	1
Bag reading 1		645
2		634
3		637
Mean		638.7
SD		5.7
%RSD		0.9
n =		3
Section 95%LCL =		625
Section 95%UCL =		653

Loc ID	SU	Rep
Information:	160 1	2
Bag reac	5/10/2012	770
2		731
3		661
4		
Mean		720.7
SD		55.2
%RSD		7.7
n =		3
2-sided CLs	Section 95%LCL =	583
	Section 95%UCL =	858

Loc ID	SU	Rep
Information:	160 1	3
Bag reac	5/10/2012	669
2		614
3		680
4		
Mean		654.3
SD		35.4
%RSD		5.4
n =		3
2-sided CLs	Section 95%LCL =	566
	Section 95%UCL =	742

Information: 160 1 SU Total	
Rep1	639
Rep2	721
Rep3	654
Mean	671.3
SD	43.7
%RSD	6.5
n =	3
Section 95%LCL =	563
Section 95%UCL =	780

Information: 160 Y1 1	
Bag reading 1	431
2	426
3	440
Mean	432.3
SD	7.1
%RSD	1.6
n =	3
Section 95%LCL =	415
Section 95%UCL =	450

Information: 160 Y1 3	
Bag reading 1	432
2	399
3	414
4	
Mean	312.0
SD	206.4
%RSD	66.2
n =	3
Section 95%LCL =	-201
Section 95%UCL =	825

Information: 160 Y1 2	
Bag reading 1	373
2	360
3	352
4	
Mean	361.7
SD	10.6
%RSD	2.9
n =	3
Section 95%LCL =	335
Section 95%UCL =	388

Information: 160 2 SU Total	
Rep1	257
Rep2	261
Rep3	279
Mean	265.7
SD	11.7
%RSD	4.4
n =	3
Section 95%LCL =	237
Section 95%UCL =	295

Information: 160 2 1	
Bag reading 1	244
2	258
3	270
Mean	257.3
SD	13.0
%RSD	5.1
n =	3
Section 95%LCL =	225
Section 95%UCL =	290

Information: 160 2 2	
Bag reac	5/10/2012 258
2	265
3	259
4	
Mean	260.7
SD	3.8
%RSD	1.5
n =	3
Section 95%LCL =	251
Section 95%UCL =	270

Information: 160 3	
Bag reac	5/10/2012 281
2	279
3	277
4	
Mean	279.0
SD	2.0
%RSD	0.7
n =	3
Section 95%LCL =	274
Section 95%UCL =	284

Information: 160 Y1 Y Totals	
Rep1	432
Rep2	361
Rep3	312
Mean	368.3
SD	60.3
%RSD	16.4
n =	3
Section 95%LCL =	218
Section 95%UCL =	518

Information: 121 2	
Bag reading 1	248
2	252
3	259
Mean	253.0
SD	5.6
%RSD	2.2
n =	3
Section 95%LCL =	239
Section 95%UCL =	267

Information: 215 1	
Bag reading 1	348
2	362
3	339
Mean	349.7
SD	11.6
%RSD	3.3
n =	3
Section 95%LCL =	321
Section 95%UCL =	378

Information: 215 2	
Bag reading 1	217
2	221
3	211
Mean	216.3
SD	5.0
%RSD	2.3
n =	3
Section 95%LCL =	204
Section 95%UCL =	229

Information: 160 Y2 Y Totals	
Rep1	216
Rep2	218
Rep3	516
Mean	316.7
SD	172.6
%RSD	54.5
n =	3
Section 95%LCL =	-112
Section 95%UCL =	746

Table C4. Summary of XRF Lead Results From Replicate Analyses of Bagged Incremental Composite Samples
Shaprio Brothers Salvage Site, Festus, Missouri

This spreadsheet summarizes replicate XRF analyses on individual bagged soil samples and calculates means, standard deviations, percent relative standard deviations and upper and lower 95% confidence limits. Field Replicate data are summarized in the far right-most columns.

Sample ID & Bagged Replicate Readings — Instrmnt Result (ppm Pb)

Information:			
160	Y2	1	
Bag reading 1		213	
2		217	
3		217	
	Mean	215.7	
	SD	2.3	
	%RSD	1.1	
	n =	3	
	Section 95%LCL =	210	
	Section 95%UCL =	221	
160	Y2	2	
Bag reading 1		226	
2		220	
3		209	
4			
	Mean	218.3	
	SD	8.6	
	%RSD	3.9	
	n =	3	
	Section 95%LCL =	197	
	Section 95%UCL =	240	
160	Y2	3	
Bag reading 1		509	
2		499	
3		540	
4			
	Mean	516.0	
	SD	21.4	
	%RSD	4.1	
	n =	3	
	Section 95%LCL =	463	
	Section 95%UCL =	569	
119		1	
Bag reading 1		408	
2		403	
3		406	
4			
	Mean	405.7	
	SD	2.5	
	%RSD	0.6	
	n =	3	
	Section 95%LCL =	399	
	Section 95%UCL =	412	
119		2	
Bag reading 1		174	
2		170	
3		169	
4			
	Mean	171.0	
	SD	2.6	
	%RSD	1.5	
	n =	3	
	Section 95%LCL =	164	
	Section 95%UCL =	178	
159		1	
Bag reading 1		484	
2		490	
3		487	
4			
	Mean	487.0	
	SD	3.0	
	%RSD	0.6	
	n =	3	
	Section 95%LCL =	480	
	Section 95%UCL =	494	
159		2	
Bag reading 1		178	
2		179	
3		185	
4			
	Mean	180.7	
	SD	3.8	
	%RSD	2.1	
	n =	3	
	Section 95%LCL =	171	
	Section 95%UCL =	190	
163	y1	1	
Bag reading 1		111	
2		104	
3		119	
	Mean	111.3	
	SD	7.5	
	%RSD	6.7	
	n =	3	
	Section 95%LCL =	93	
	Section 95%UCL =	130	
163	y1	2	
Bag reac	5/11/2012	118	
2		129	
3		130	
4			
	Mean	125.7	
	SD	6.7	
	%RSD	5.3	
	n =	3	
	Section 95%LCL =	109	
	Section 95%UCL =	142	
163	y1	3	
Bag reac	5/11/2012	136	
2		138	
3		136	
4			
	Mean	136.7	
	SD	1.2	
	%RSD	0.8	
	n =	3	
	Section 95%LCL =	134	
	Section 95%UCL =	140	
163	y1	Y totals	
Rep1		111	
Rep2		126	
Rep3		137	
	Mean	124.7	
	SD	13.1	
	%RSD	10.5	
	n =	3	
	Section 95%LCL =	92	
	Section 95%UCL =	157	
163	y2	1	
Bag reading 1		91	
2		105	
3		97	
	Mean	97.7	
	SD	7.0	
	%RSD	7.2	
	n =	3	
	Section 95%LCL =	80	
	Section 95%UCL =	115	
163	y2	2	grind
Bag reac	5/11/2012	110	
2		103	
3		104	
4			
	Mean	105.7	
	SD	3.8	
	%RSD	3.6	
	n =	3	
2-sided CLs	Section 95%LCL =	96	
	Section 95%UCL =	115	
163	y2		
Bag reac	5/11/2012	139	
2		133	
3		132	
4			
	Mean	134.7	
	SD	3.8	
	%RSD	2.8	
	n =	3	
2-sided CLs	Section 95%LCL =	125	
	Section 95%UCL =	144	
163	Y2	Y totals	
Rep1		98	
Rep2		106	
Rep3		135	
	Mean	113.0	
	SD	19.5	
	%RSD	17.2	
	n =	3	
	Section 95%LCL =	65	
	Section 95%UCL =	161	
163	su1	e845	
Bag reading 1		73	
2		74	
3		73	
	Mean	73.3	
	SD	0.6	
	%RSD	0.8	
	n =	3	
	Section 95%LCL =	72	
	Section 95%UCL =	75	
163	su1	2	
Bag reac	5/11/2012	87	
2		91	
3		91	
4			
	Mean	89.7	
	SD	2.3	
	%RSD	2.6	
	n =	3	
	Section 95%LCL =	84	
	Section 95%UCL =	95	
163	su1	3	
Bag reac	5/11/2012	84	
2		84	
3		91	
4			
	Mean	86.3	
	SD	4.0	
	%RSD	4.7	
	n =	3	
	Section 95%LCL =	76	
	Section 95%UCL =	96	
163	SU1	SU Totals	
Rep1		73	
Rep2		90	
Rep3		86	
	Mean	83.0	
	SD	8.9	
	%RSD	10.7	
	n =	3	
	Section 95%LCL =	61	
	Section 95%UCL =	105	
163	su2	1	
Bag reading 1		136	
2		129	
3		130	
	Mean	131.7	
	SD	3.8	
	%RSD	2.9	
	n =	3	
	Section 95%LCL =	122	
	Section 95%UCL =	141	
163	su2	2	
Bag reac	5/11/2012	140	
2		136	
3		129	
4			
	Mean	135.0	
	SD	5.6	
	%RSD	4.1	
	n =	3	
	Section 95%LCL =	121	
	Section 95%UCL =	149	
163	su2	3	
Bag reac	5/11/2012	126	
2		131	
3		124	
4			
	Mean	127.0	
	SD	3.6	
	%RSD	2.8	
	n =	3	
	Section 95%LCL =	118	
	Section 95%UCL =	136	
163	SU2	SU Totals	
Rep1		132	
Rep2		135	
Rep3		127	
	Mean	131.3	
	SD	4.0	
	%RSD	3.1	
	n =	3	
	Section 95%LCL =	121	
	Section 95%UCL =	141	
217	su	1	
Bag reading 1		385	
2		390	
3		406	
4		392	
5		390	
6		367	
7		379	
8		367	
9		386	
	Mean	384.7	
	SD	12.4	
	%RSD	3.2	
	n =	9	
	Section 95%LCL =	375	
	Section 95%UCL =	394	
217	su	2	
Bag reac	5/21/2012	264	
2		271	
3		257	
4			
	Mean	264.0	
	SD	7.0	
	%RSD	2.7	
	n =	3	
	Section 95%LCL =	247	
	Section 95%UCL =	281	
123	su	2	
Bag reac	5/21/2012	221	
2		230	
3		225	
4			
	Mean	225.3	
	SD	4.5	
	%RSD	2.0	
	n =	3	
	Section 95%LCL =	214	
	Section 95%UCL =	237	
vine telephone pole			
Bag reading 1		1134	
2		1165	
3		1232	
4		1127	
5		1164	
6		1203	
7		1180	
8		1187	
9		1188	
10		1221	
	Mean	1180.1	
	SD	34.0	
	%RSD	2.9	
	n =	10	
	Section 95%LCL =	1156	
	Section 95%UCL =	1204	
139	su	3	
Bag reac	5/21/2012	393	
2		408	
3		381	
4		384	
5		393	
6		432	
7		417	
8		396	
9		422	
#		412	
	Mean	403.8	
	SD	17.0	
	%RSD	4.2	
	n =	10	
	Section 95%LCL =	392	
	Section 95%UCL =	416	
133	su	2	
Bag reading 1		214	
2		206	
3		216	
	Mean	212.0	
	SD	5.3	
	%RSD	2.5	
	n =	3	
	Section 95%LCL =	199	
	Section 95%UCL =	225	
133	su	1	
Bag reac	5/21/2012	218	
2		185	
3		202	
4			
	Mean	201.7	
	SD	16.5	
	%RSD	8.2	
	n =	3	
	Section 95%LCL =	161	
	Section 95%UCL =	243	
134	su	2	
Bag reac	5/21/2012	138	
2		142	
3		143	
4			
	Mean	141.0	
	SD	2.6	
	%RSD	1.9	
	n =	3	
	Section 95%LCL =	134	
	Section 95%UCL =	148	
134	su	1	
Bag reading 1		161	
2		140	
3		145	
	Mean	148.7	
	SD	11.0	
	%RSD	7.4	
	n =	3	
	Section 95%LCL =	121	
	Section 95%UCL =	176	
		1	
174	su	3	
Bag reac	5/21/2012	1007	
2		936	
3		913	
4			
	Mean	952.0	
	SD	49.0	
	%RSD	5.1	
	n =	3	
	Section 95%LCL =	830	
	Section 95%UCL =	1074	

Table C4. Summary of XRF Lead Results From Replicate Analyses of Bagged Incremental Composite Samples
Shaprio Brothers Salvage Site, Festus, Missouri

This spreadsheet summarizes replicate XRF analyses on individual bagged soil samples and calculates means, standard deviations, percent relative standard deviations and upper and lower 95% confidence limits. Field Replicate data are summarized in the far right-most columns.

Sample ID & Bagged Replicate Readings | Instrmnt Result (ppm Pb)

Information: 174 su 2

Bag reading 1	301
2	309
3	304
Mean	304.7
SD	4.0
%RSD	1.3
n =	3
Section 95%LCL =	295
Section 95%UCL =	315

Information: 302 porter park

Bag reading 1	54
2	48
3	47
Mean	49.7
SD	3.8
%RSD	7.6
n =	3
Section 95%LCL =	40
Section 95%UCL =	59

Information: 300 st city Park

Bag reading 1	36
2	40
3	51
Mean	42.3
SD	7.8
%RSD	18.3
n =	3
Section 95%LCL =	23
Section 95%UCL =	62

Information: 110 su 2

Bag reading 1	476
2	479
3	463
Mean	472.7
SD	8.5
%RSD	1.8
n =	3
Section 95%LCL =	452
Section 95%UCL =	494

Information: 154 y1 rep3

Bag reading 1	182
2	187
3	173
Mean	180.7
SD	7.1
%RSD	3.9
n =	3
Section 95%LCL =	163
Section 95%UCL =	198

Information: 154 y2 rep3

Bag reading 1	417
2	408
3	391
Mean	405.3
SD	13.2
%RSD	3.3
n =	3
Section 95%LCL =	373
Section 95%UCL =	438

Information: 154 y3 rep3

Bag reading 1	312
2	314
3	321
Mean	315.7
SD	4.7
%RSD	1.5
n =	3
Section 95%LCL =	304
Section 95%UCL =	327

Information: 154 su1 rep3

Bag reading 1	229
2	211
3	208
Mean	216.0
SD	11.4
%RSD	5.3
n =	3
Section 95%LCL =	188
Section 95%UCL =	244

Sample ID & Bagged Replicate Readings | Instrmnt Result (ppm Pb)

Information: 174 su 1

Bag reac	5/21/2012	324
2		361
3		358
4		
Mean		347.7 #DIV/0!
SD		20.6 #DIV/0!
%RSD		5.9
n =		0 0
Section 95%LCL =		#NUM! #DIV/0!
Section 95%UCL =		#NUM! #DIV/0!

Information: 176 su 4

Bag reac	5/21/2012	283
2		296
3		322
4		
Mean		300.3
SD		19.9
%RSD		6.6
n =		3
Section 95%LCL =		251
Section 95%UCL =		350

Information: 117 su 2

Bag reac	5/21/2012	302
2		303
3		305
4		
Mean		303.3
SD		1.5
%RSD		0.5
n =		3
Section 95%LCL =		300
Section 95%UCL =		307

Information: 154 y1 rep1

Bag reac	5/21/2012	190
2		154
3		154
4		
Mean		166.0
SD		20.8
%RSD		12.5
n =		3
Section 95%LCL =		114
Section 95%UCL =		218

Information: 154 y2 rep1

Bag reac	5/21/2012	292
2		282
3		272
4		
Mean		282.0
SD		10.0
%RSD		3.5
n =		3
2-sided CLs	Section 95%LCL =	257
	Section 95%UCL =	307

Information: 154 y3 rep1

Bag reac	5/21/2012	344
2		330
3		343
4		
Mean		339.0
SD		7.8
%RSD		2.3
n =		3
Section 95%LCL =		320
Section 95%UCL =		358

Information: 154 su1 rep1

Bag reac	5/21/2012	201
2		225
3		197
4		
Mean		207.7
SD		15.1
%RSD		7.3
n =		3
Section 95%LCL =		170
Section 95%UCL =		245

Information: 154 su2 rep1

Bag reac	5/21/2012	255
2		257
3		243
4		
Mean		251.7
SD		7.6
%RSD		3.0
n =		3
Section 95%LCL =		233
Section 95%UCL =		270

Sample ID & Bagged Replicate Readings | Instrmnt Result (ppm Pb)

Information: 301 unset park

Bag reac	5/21/2012	84
2		90
3		94
4		
Mean		89.3
SD		5.0
%RSD		5.6
n =		3
Section 95%LCL =		77
Section 95%UCL =		102

Information: 180 2

Bag reac	5/21/2012	102
2		100
3		109
4		
Mean		103.7
SD		4.7
%RSD		4.6
n =		3
Section 95%LCL =		92
Section 95%UCL =		115

Information: 110 su 1

Bag reac	5/21/2012	1571
2		1600
3		1557
4		
Mean		1576.0
SD		21.9
%RSD		1.4
n =		3
Section 95%LCL =		1522
Section 95%UCL =		1630

Information: 154 y1 rep2

Bag reac	5/21/2012	176
2		180
3		182
4		
Mean		179.3
SD		3.1
%RSD		1.7
n =		3
Section 95%LCL =		172
Section 95%UCL =		187

Information: 154 y2 rep2

Bag reac	5/21/2012	232
2		234
3		237
4		
Mean		234.3
SD		2.5
%RSD		1.1
n =		3
2-sided CLs	Section 95%LCL =	228
	Section 95%UCL =	241

Information: 154 y3 rep2

Bag reac	5/21/2012	361
2		362
3		356
4		
Mean		359.7
SD		3.2
%RSD		0.9
n =		3
Section 95%LCL =		352
Section 95%UCL =		368

Information: 154 su1 rep2

Bag reac	5/21/2012	225
2		233
3		241
4		
Mean		233.0
SD		8.0
%RSD		3.4
n =		3
Section 95%LCL =		213
Section 95%UCL =		253

Information: 154 su2 rep2

Bag reac	5/21/2012	281
2		295
3		288
4		
Mean		288.0
SD		7.0
%RSD		2.4
n =		3
Section 95%LCL =		271
Section 95%UCL =		305

Information: 154 Y1 Y totals

Rep1	166
Rep2	179
Rep3	181
Mean	175.3
SD	8.1
%RSD	4.6
n =	3
Section 95%LCL =	155
Section 95%UCL =	196

Information: 154 Y2 Y totals

Rep1	181
Rep2	234
Rep3	405
Mean	273.3
SD	117.1
%RSD	42.8
n =	3
Section 95%LCL =	-17
Section 95%UCL =	564

Information: 154 Y3 Y totals

Rep1	339
Rep2	360
Rep3	316
Mean	338.3
SD	22.0
%RSD	6.5
n =	3
Section 95%LCL =	284
Section 95%UCL =	393

Information: 154 su1 SU Totals

Rep1	208
Rep2	233
Rep3	216
Mean	219.0
SD	12.8
%RSD	5.8
n =	3
Section 95%LCL =	187
Section 95%UCL =	251

Information: 154 Su2 SU Totals

Rep1	251
Rep2	288
Rep3	286
Mean	275.0
SD	20.8
%RSD	7.6
n =	3
Section 95%LCL =	223
Section 95%UCL =	327

Table C4. Summary of XRF Lead Results From Replicate Analyses of Bagged Incremental Composite Samples
Shaprio Brothers Salvage Site, Festus, Missouri

This spreadsheet summarizes replicate XRF analyses on individual bagged soil samples and calculates means, standard deviations, percent relative standard deviations and upper and lower 95% confidence limits. Field Replicate data are summarized in the far right-most columns.

Sample ID & Bagged Replicate Readings — Instrmnt Result (ppm Pb)

Information: 154 su2 rep3

Bag reading 1	281
2	295
3	282
Mean	286.0
SD	7.8
%RSD	2.7
n =	3
Section 95%LCL =	267
Section 95%UCL =	305

Information: 105 y1 rep3

Bag reading 1	504
2	519
3	529
Mean	517.3
SD	12.6
%RSD	2.4
n =	3
Section 95%LCL =	486
Section 95%UCL =	549

Information: 105 y2 rep2

Bag reading 1	650
2	692
3	690
Mean	677.3
SD	23.7
%RSD	3.5
n =	3
Section 95%LCL =	618
Section 95%UCL =	736

Information: 127 su 1

Bag reading 1	687
2	664
3	681
Mean	677.3
SD	11.9
%RSD	1.8
n =	3
Section 95%LCL =	648
Section 95%UCL =	707

Information: 103 su1 rep3

Bag reading 1	1043
2	1035
3	1126
Mean	1068.0
SD	50.4
%RSD	4.7
n =	3
Section 95%LCL =	943
Section 95%UCL =	1193

Information: 103 su3

Bag reading 1	495
2	487
3	523
Mean	501.7
SD	18.9
%RSD	3.8
n =	3
Section 95%LCL =	455
Section 95%UCL =	549

Information: 103 Y1 1

Bag reading 1	465
2	438
3	452
Mean	451.7
SD	13.5
%RSD	3.0
n =	3
Section 95%LCL =	418
Section 95%UCL =	485

Information: 103 y2 rep2 grind

Bag reading 1	400
2	378
3	390
	397
	399
	447
	374
	408
	379
	382
	395
Mean	395.4
SD	20.2
%RSD	5.1
n =	11
Section 95%LCL =	382
Section 95%UCL =	409

Loc ID SU Rep

Information: 105 2 QCI

Bag reading 1	407
2	410
3	395
4	389
5	430
6	418
7	380
Mean	404.1
SD	17.3
%RSD	4.3
n =	7
Section 95%LCL =	388
Section 95%UCL =	420

Loc ID SU Rep

Information: 105 3

Bag reading 1	1512
2	1595
3	1498
Mean	1535.0
SD	52.4
%RSD	3.4
n =	3
Section 95%LCL =	1405
Section 95%UCL =	1665

Sample ID & Bagged Replicate Readings — Instrmnt Result (ppm Pb)

Information: 105 y2 rep3

Bag reading 1	5/21/2012
2	695
3	682
4	744
Mean	707.0
SD	32.7
%RSD	4.6
n =	3
Section 95%LCL =	626
Section 95%UCL =	788

Information: 105 y1 rep1

Bag reading 1	5/21/2012
2	563
3	570
4	551
Mean	561.3
SD	9.6
%RSD	1.7
n =	3
Section 95%LCL =	537
Section 95%UCL =	585

Information: 139 su 1

Bag reading 1	5/21/2012	
2	222	
3	221	
4	244	
Mean	229.0	#DIV/0!
SD	13.0	#DIV/0!
%RSD	5.7	
n =	0	0
Section 95%LCL =	#NUM!	#DIV/0!
Section 95%UCL =	#NUM!	#DIV/0!

Information: 127 su 2

Bag reading 1	5/21/2012
2	209
3	212
4	193
Mean	204.7
SD	10.2
%RSD	5.0
n =	3
Section 95%LCL =	179
Section 95%UCL =	230

Information: 103 su2 rep1

Bag reading 1	5/21/2012
2	333
3	357
4	333
Mean	341.0
SD	13.9
%RSD	4.1
n =	3
Section 95%LCL =	307
Section 95%UCL =	375

Information: 103 y2 rep1

Bag reading 1	5/21/2012
2	692
3	719
4	682
Mean	697.7
SD	19.1
%RSD	2.7
n =	3
Section 95%LCL =	650
Section 95%UCL =	745

Information: 103 Y1 2

Bag reading 1	299
2	295
3	300
Mean	298.0
SD	2.6
%RSD	0.9
n =	3
Section 95%LCL =	291
Section 95%UCL =	305

Information: 103 su1 rep2 grind

Bag reading 1	5/21/2012
2	1168
3	1172
4	1200
5	1181
6	1174
7	1216
8	1216
9	1220
#	1202
#	1202
	1215
Mean	1196.9
SD	19.7
%RSD	1.6
n =	11
Section 95%LCL =	1184
Section 95%UCL =	1210

Loc ID SU

Information: 105 1

Bag reading 1	1145
2	1102
3	1058
Mean	1101.7
SD	468.1
%RSD	42.5
n =	6
Section 95%LCL =	610
Section 95%UCL =	1593

Sample ID & Bagged Replicate Readings — Instrmnt Result (ppm Pb)

Information: 105 y1 rep2

Bag reading 1	5/21/2012
2	624
3	560
4	560
Mean	581.3
SD	37.0
%RSD	6.4
n =	3
Section 95%LCL =	490
Section 95%UCL =	673

Information: 105 y2 rep1

Bag reading 1	5/21/2012
2	524
3	521
4	519
Mean	521.3
SD	2.5
%RSD	0.5
n =	3
Section 95%LCL =	515
Section 95%UCL =	528

Information: 139 su 2

Bag reading 1	5/21/2012
2	176
3	151
4	152
Mean	159.7
SD	14.2
%RSD	8.9
n =	3
Section 95%LCL =	125
Section 95%UCL =	195

Information: 103 su1 rep1

Bag reading 1	5/21/2012
2	1153
3	1125
4	1131
Mean	1136.3
SD	14.7
%RSD	1.3
n =	3
Section 95%LCL =	1100
Section 95%UCL =	1173

Information: 103 su2 rep2

Bag reading 1	41050
2	330
3	339
4	325
Mean	331.3
SD	7.1
%RSD	2.1
n =	3
Section 95%LCL =	314
Section 95%UCL =	349

Information: 103 y2 rep3

Bag reading 1	5/21/2012
2	582
3	613
4	601
Mean	598.7
SD	15.6
%RSD	2.6
n =	3
Section 95%LCL =	560
Section 95%UCL =	637

Information: 103 Y1 3

Bag reading 1	334
2	343
3	332
4	
Mean	336.3
SD	5.9
%RSD	1.7
n =	3
Section 95%LCL =	322
Section 95%UCL =	351

Information: 103 su2 rep3

Bag reading 1	5/21/2012
2	363
3	362
4	355
Mean	360.0
SD	4.4
%RSD	1.2
n =	3
Section 95%LCL =	349
Section 95%UCL =	371

Loc ID SU Rep

Information: 105 2

Bag reading 1	405
2	408
3	399
4	419
5	385
6	408
7	416
8	396
9	396
#	402
Mean	403.4
SD	10.1
%RSD	2.5
n =	10
Section 95%LCL =	396
Section 95%UCL =	411

Information: 105 Y1 Y totals

Rep1	561
Rep2	581
Rep3	517
Mean	553.0
SD	32.7
%RSD	5.9
n =	3
Section 95%LCL =	472
Section 95%UCL =	634

Information: 105 Y2 Y totals

Rep1	521
Rep2	677
Rep3	707
Mean	635.0
SD	99.9
%RSD	15.7
n =	3
Section 95%LCL =	387
Section 95%UCL =	883

Information: 103 su1 SU Totals

Rep1	1136
Rep2	1195
Rep3	1068
Mean	1133.0
SD	63.6
%RSD	5.6
n =	3
Section 95%LCL =	975
Section 95%UCL =	1291

Information: 103 SU2 SU Totals

Rep1	341
Rep2	331
Rep3	360
Mean	344.0
SD	14.7
%RSD	4.3
n =	3
Section 95%LCL =	307
Section 95%UCL =	381

Information: 103 Y2 Y Totals

Rep1	698
Rep2	395
Rep3	599
Mean	564.0
SD	154.5
%RSD	27.4
n =	3
Section 95%LCL =	180
Section 95%UCL =	948

Information: 103 Y1 Y Totals

Rep1	452
Rep2	298
Rep3	336
Mean	362.0
SD	80.2
%RSD	22.2
n =	3
Section 95%LCL =	163
Section 95%UCL =	561

Table C5. Summary of Selected Lead Results, Yard Samples
Shapiro Brothers Salvage Site, Jefferson County, Missouri

Residence Loc ID	SU	Area, square feet	Lead Concentration, mg/kg				
			Max[1]	Pb, Lab mg/kg	UCL[2]	Yard-Wide UCL[3]	Wipe, Pb ug/ft[2]
103	1	1100	--	1250	1240	**670**	--
	2	1950	--	--	370		--
	Drip Zone	--	540	--	--		--
115	1	1200	--	2360	2200	**650**	--
	2	13870	--	--	520		--
	Drip Zone	--	1360	--	--		--
	Wipe, table	--	--	--	--		4,000
	Wipe siding	--	--	--	--		950
116	1	900	--	--	2070	**410**	--
	2	8400	--	--	250		--
	Drip Zone	--	240	--	--		--
120	1	700	--	--	1000	**560**	--
	2	960	--	--	270		--
	Drip Zone	--	410	--	--		--
121	2	--		--	290	290	--
	Drip Zone	--	300	--	--		--
124	2	NA	--	--	300	300	--
	4 (Play Area)			--	510		--
	Drip Zone	--	250	--	--		--
125	1	950	--	--	1263	**500**	--
	2	4100	--	--	326		--
	Drip Zone	--	620	--	--		--
146	1	100	--	450	400	**630**	--
	2	5430	--	--	630		--
	Drip Zone	--	510	--	--		--
154	1	120	--	--	240	310	--
	2	6250	--	--	310		--
	Drip Zone	--	290	--	--		--
160	1	450	--	990	750	310	--
	2	6250	--	--	290		--
	Drip Zone	--	210	--	--		--
163	1	80	--	--	100	140	--
	2	6090	--	--	140		--
	Drip Zone	--	100	--	--		--
114	Wipe, siding	--	--	--	--	--	140
105	1	600	--	--	1210	**520**	--
	2	4430	--	500	440		--
	Drip Zone	--	830	--	--		--
	Wipe, chair	--	--	--	--		1,700
	Wipe, siding	--	--	--	--		4,900
106	1	320	--	680	580	260	--
	2	5150	--	--	240		--
	Drip Zone	--	630	--	--		--
108	2	NA	--	--	270	270	--
	Drip Zone	--	110	--			--
109	2	NA	--	--	320	320	--
	Drip Zone	--	280	--	--		--

Table C5. Summary of Selected Lead Results, Yard Samples
Shapiro Brothers Salvage Site, Jefferson County, Missouri

Residence Loc ID	SU	Area, square feet	Lead Concentration, mg/kg				
			Max[1]	Pb, Lab mg/kg	UCL[2]	Yard-Wide UCL[3]	Wipe, Pb ug/ft[2]
110	1	560	--	1620	1680	**570**	--
	2	8600	--	--	510		--
	Wipe, window	--	--	--	--		180
	Drip Zone	--	300	--	--		--
111	2	NA	--	--	200	200	--
117	1	300	--	--	1790	380	--
	2	9320	--	--	340		--
119	1	2010	--	450	420	270	--
	2	4020	--		210		--
123	2	NA	--	--	260	260	--
	Drip Zone	--	220	--	--		--
127	1	400	--	--	690	270	--
	2	5460	--	--	240		--
	Drip Zone	--	470	--	--		--
129	1	110	--	--	190	200	--
	2	7380	--	--	200		--
	Drip Zone	--	940	--	--		--
133	1	70	--		220	250	--
	2	3090	--	240	250		--
	Drip Zone	--	310	--	--		--
134	1	150	--	--	170	176	--
	2	9430	--	--	180		--
	Drip Zone	--	250	--	--		--
135	1	210	--	--	310	170	--
	2	9310	--	--	170		--
	Drip Zone	--	270	--	--		--
139	1	70		--	250	200	--
	2	5740	--	--	200		--
	Drip Zone	--	180	--	--		--
143	1	85	--	--	280	**480**	--
	2	3400	--	--	480		--
	Drip Zone	--	400	--	--		--
148	1	90	--	--	230	170	--
	2	5600	--	--	170		--
	Drip Zone	--	650	--	--		--
155	1	70	--	--	280	240	--
	2	2360	--	--	240		--
	Drip Zone	--	210	--	--		--
157	2	NA	--	--	130	130	--
	Drip Zone	--	80	--	--		--
158	2	NA	--	--	190	190	--
	Drip Zone	--	280	--	--		--
159	1	120	--	--	500	220	--
	2	4550	--	--	220		--
	Drip Zone	--	360	--	--		--
161	2	NA	--	--	120	120	--
164	2	NA	--	--	150	150	--
	Drip Zone	--	320	--	--		--

Table C5. Summary of Selected Lead Results, Yard Samples
Shapiro Brothers Salvage Site, Jefferson County, Missouri

Residence Loc ID	SU	Area, square feet	Lead Concentration, mg/kg				
			Max[1]	Pb, Lab mg/kg	UCL[2]	Yard-Wide UCL[3]	Wipe, Pb ug/ft^2
174	1	210	--	--	360	340	--
	2	6170	--	--	340		--
	Drip Zone	--	730	--	--		--
175	1	100	--	--	180	170	--
	2	5980	--	--	170		--
	Drip Zone	--	331	--	--		--
176	2	4920	--	--	290	290	--
	4 (Play Area)	80	--	--	340		--
	Drip Zone	--	330	--	--		--
179	2	NA	--	--	200	200	--
	Wipe, table	--	--	--	--		30
	Wipe, window	--	--	--	--		620
	Drip Zone	--	170	--	--		--
180	2	NA	--	--	140	140	--
	Drip Zone	--	130	--	--		--
215	1	200	--	--	370	260	--
	2	5550	--	--	250		--
	Drip Zone	--	680	--	--		--
216	2	NA	--	--	480	**480**	--
	Wipe, siding	--	--	--	--		190
	Drip Zone	--	580	--	--		--
217	1	70	--	420	430	310	--
	2	3480	--	--	300		--
	Drip Zone	--	430	--	--		--

All XRF data >1,000 mg/kg rounded to 3 significant digits; data <1,000 mg/kg rounded to 2 significant digits

[1] Maximum lead concentration measured in the drip zone via in-situ XRF analyses.

[2] 95% Upper confidence limit of lead concentration in SU calculated from field replicate samples using the Student's t method (Table C6)

[3] Yard-wide area-weighted 95% upper confidence limit of lead concentration in yard soil calculated from field replicate samples using the Student's t method (Tables C7 & C8)

Table C6. Calculation of UCLs for Yard Sampling Units (SUs)

Shapiro Brothers Site, Jefferson County, Missouri

Statistics for SUs With Replicates

Loc ID	103	103	115	115	116	116	120	120	124	124	125	125	146	146	154	154	160	160	163	163	221
SU	1	2	1	2	1	2	1	2	2	4	1	2	1	2	1	2	1	2	1	2	2
Rep 1	1136	341	2139	488	1957	238	891	226	247	477	1233	322	395	578	208	251	639	257	73	132	123
Rep 2	1195	331	2056	470	1801	239	946	244	243	429	1178	316	386	479	233	288	721	261	90	135	123
Rep 3	1068	360	2151	507	1970	222	806	258	285	392	1139	322	388	415	216	286	654	279	86	127	174
arithmetic mean	1133	344	2115	488	1909	233	881	243	258	433	1183	320	390	491	219	275	671	266	83	131	140
standard deviation	63.6	14.7	51.7	18.5	94.0	9.5	70.5	16.0	23.2	42.6	47.2	3.5	4.7	82.1	12.8	20.8	43.7	11.7	8.9	4.0	29.4
CV = SD / mean	0.056	0.043	0.024	0.038	0.049	0.041	0.080	0.066	0.090	0.099	0.040	0.011	0.012	0.167	0.058	0.076	0.065	0.044	0.107	0.031	0.210
count (r)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
alpha (95% = 0.05)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
t(alpha, df=r-1)	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92
Student's t 95%UCL	1240	369	2203	520	2068	249	1000	270	297	505	1263	326	398	629	241	310	745	285	98	138	190
Chebychev 95%UCL	1293	381	2246	535	2146	257	1059	283	317	540	1302	329	402	697	251	327	781	295	105	142	214

Deriving Measure of Variability Using SD For SU1

	Hi Conc. SD	Low Conc. SD
	64	12.8
	52	8.9
	94	4.7
	71	
	47	
	44	
Mean SD for SU1	62	9

Deriving Measure of Variability Using SD For SU2

	SU2 SD
	15
	19
	9.5
	16
	23
	3.5
	82
	21
	12
	4
Mean SD for SU2	21

Since the Pb concentrations in SU1 had a wide range, the measure of variability for that SU was broken into 2 categories; high (>600 ppm and low <600ppm). The SDs for each category were averaged. The average SD for each category was then used in the tables below as the measure of variablity for SU1 at yards where no replicates were collected based on the Pb conc. measured in each SU1.

Since the range of Pb concentrations for SU2 was narrower, a single measure of variability (mean SD) was used for calculating UCLs for all SU2s

Discrete sampling data from in-situ measurements in SU1 (Figure C6) showed that the distribution of lead was not normal, but did have a low coefficient of variation (was not highly skewed) justifying the use of the Student's t UCL calculation method.

Student's t UCL :

$$UCL = \overline{X} + t_{(1-\alpha)*(r-1)} * \frac{S_{\overline{X}}}{\sqrt{r}}$$

Statistics For SUs With No Replicates Using Variability Derived From SUs With Replicates

Loc ID	105	105	106	106	108	109	110	110	111	121	117	117	119	119	123	127	127	129	129	133	133	134	134	135	135	139	139
SU	1	2	1	2	2	2	1	2	2	2	1	2	1	2	2	1	2	1	2	1	2	1	2	1	2	1	2
arithmetic mean	1102	403	561	206	230	288	1576	473	169	253	1688	303	406	171	225	677	205	176	165	202	212	149	141	292	132	229	160
standard deviation	62	21	9	21	21	21	62	21	21	21	62	21	9	21	21	9	21	9	21	11	21	11	21	11	21	11	21
CV = SD / mean	0.056	0.052	0.016	0.102	0.091	0.073	0.039	0.044	0.124	0.083	0.037	0.069	0.022	0.123	0.093	0.013	0.102	0.051	0.127	0.054	0.099	0.074	0.149	0.038	0.159	0.048	0.131
count (r)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
alpha (95% = 0.05)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
t(alpha, df=r-1)	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92
Student's t 95%UCL	1207	438	576	241	265	323	1681	508	204	288	1,793	338	421	206	260	692	240	191	200	221	247	168	176	311	167	248	195
Chebychev 95%UCL	1258	456	584	259	283	341	1732	526	222	306	1,844	356	429	224	278	700	258	199	218	230	265	177	194	320	185	257	213

Statistics For SUs With No Replicates Using Variability Derived From SUs With Replicates (cont.)

Loc ID	143	143	148	148	155	155	157	158	159	159	161	164	174	174	176	176	179	180	180	215	215	216	217	217	175	175
SU	1	2	1	2	1	2	2	2	1	2	2	2	1	2	2	4	2	2	2	1	2	2	1	2	1	2
arithmetic mean	268	445	190	133	261	203	97	159	487	180	86	118	348	305	251	300	168	104	104	350	216	443	385	264	146	134
standard deviation	9	21	21	21	9	21	21	21	9	21	21	21	9	21	21	21	21	21	21	9	21	21	24	21	21	21
CV = SD / mean	0.034	0.047	0.111	0.158	0.034	0.103	0.216	0.132	0.018	0.117	0.244	0.178	0.026	0.069	0.084	0.070	0.125	0.202	0.202	0.026	0.097	0.047	0.062	0.080	0.144	0.157
count (r)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
alpha (95% = 0.05)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
t(alpha, df=r-1)	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92
Student's t 95%UCL	283	480	225	168	276	238	132	194	502	215	121	153	363	340	286	335	203	139	139	365	251	478	425	299	181	169
Chebychev 95%UCL	291	498	243	186	284	256	150	212	510	233	139	171	371	358	304	353	221	157	157	373	269	496	445	317	199	187

Values in blue shaded cells are user-entered

Values in green are recommended 95% UCLs

Table C7. Calculation of Area-Weighted 95% UCLs for Yard Decision Units (DUs) Where Replicates Were Collected

Shapiro Brothers Site, Jefferson County, Missouri

SAMPLING UNITS WHERE REPLICATES WERE COLLECTED

SU	Loc ID	SU Area (ft^2)	Replicate concentration Rep 1	Rep 2	Rep 3	Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	Chebychev
1	103	1100.00	1136	1195	1068	3	0.36	1133.0	63.6	36.7	1240.1	1292.9
2		1950.00	341	331	360	3	0.64	344.0	14.7	8.5	368.8	381.1
Combined DUs Weighted by Area		**3050.00**	--	--	--	**6**	**1.00**	**628.6**	**24.8**	**14.3**	**670.3**	**690.9**

Degrees of freedom by Welch-Satterthwaite approximation **2.66**

SU	Loc ID	SU Area (ft^2)	Replicate concentration Rep 1	Rep 2	Rep 3	Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	Chebychev
1	116	900.00	1957	1801	1970	3	0.10	1909.3	94.0	54.3	2067.9	2146.0
2		8400.00	238	239	222	3	0.90	233.0	9.5	5.5	249.1	257.0
Combined DUs Weighted by Area		**9300.00**	--	--	--	**6**	**1.00**	**395.2**	**12.5**	**7.2**	**412.3**	**426.8**

Degrees of freedom by Welch-Satterthwaite approximation **3.99**

SU	Loc ID	SU Area (ft^2)	Replicate concentration Rep 1	Rep 2	Rep 3	Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	Chebychev
1	115	1200.00	2139	2056	2151	3	0.08	2115.3	51.7	29.9	2202.5	2245.5
2		13870.00	488	470	507	3	0.92	488.3	18.5	10.7	519.5	534.9
Combined DUs Weighted by Area		**15070.00**	--	--	--	**6**	**1.00**	**617.9**	**17.5**	**10.1**	**647.4**	**662.0**

Degrees of freedom by Welch-Satterthwaite approximation **2.23**

SU	Loc ID	SU Area (ft^2)	Replicate concentration Rep 1	Rep 2	Rep 3	Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	Chebychev
1	120	700.00	891	946	806	3	0.42	881.0	70.5	40.7	999.9	1058.5
2		960.00	226	244	258	3	0.58	242.7	16.0	9.3	269.7	283.0
Combined DUs Weighted by Area		**1660.00**	--	--	--	**6**	**1.00**	**511.8**	**31.2**	**18.0**	**564.4**	**590.3**

Degrees of freedom by Welch-Satterthwaite approximation **2.39**

SU	Loc ID	SU Area (ft^2)	Replicate concentration Rep 1	Rep 2	Rep 3	Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	Chebychev
2	124	1.00	247	243	285	3	1.00	258.3	23.2	13.4	297.4	316.7
		0.00										
Combined DUs Weighted by Area		**1.00**	--	--	--	**3**	**1.00**	**258.3**	**23.2**	**13.4**	**297.4**	**316.7**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Replicate concentration Rep 1	Rep 2	Rep 3	Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	Chebychev
1	125	950.00	1233	1178	1139	3	0.19	1183.3	47.2	27.3	1263.0	1302.2
2		4100.00	322	316	322	3	0.81	320.0	3.5	2.0	325.8	328.7
Combined DUs Weighted by Area		**5050.00**	--	--	--	**6**	**1.00**	**482.4**	**9.3**	**5.4**	**498.1**	**505.9**

Degrees of freedom by Welch-Satterthwaite approximation **2.40**

SU	Loc ID	SU Area (ft^2)	564 Rep 1	Rep 2	Rep 3	Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	Chebychev
1	146	100.00	395	386	388	3	0.02	389.7	4.7	2.7	397.6	401.6
2		5430.00	578	479	415	3	0.98	490.7	82.1	47.4	629.1	697.3
Combined DUs Weighted by Area		**5530.00**	--	--	--	**6**	**1.00**	**488.8**	**80.6**	**46.6**	**624.8**	**691.8**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Replicate concentration Rep 1	Rep 2	Rep 3	Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	Chebychev
1	154	120.00	208	233	216	3	0.02	219.0	12.8	7.4	240.5	251.1
2		6250.00	251	288	286	3	0.98	275.0	20.8	12.0	310.1	327.4
Combined DUs Weighted by Area		**6370.00**	--	--	--	**6**	**1.00**	**273.9**	**20.4**	**11.8**	**308.4**	**325.3**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Replicate concentration Rep 1	Rep 2	Rep 3	Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	Chebychev
1	160	450.00	639	721	654	3	0.07	671.3	43.7	25.2	744.9	781.2
2		6250.00	257	261	279	3	0.93	265.7	11.7	6.8	285.4	295.2
Combined DUs Weighted by Area		**6700.00**	--	--	--	**6**	**1.00**	**292.9**	**11.3**	**6.5**	**312.0**	**321.4**

Degrees of freedom by Welch-Satterthwaite approximation **2.29**

Table C7. Calculation of Area-Weighted 95% UCLs for Yard Decision Units (DUs) Where Replicates Were Collected

Shapiro Brothers Site, Jefferson County, Missouri

SAMPLING UNITS WHERE REPLICATES WERE COLLECTED

SU	Loc ID	SU Area (ft^2)	Replicate concentration			Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL	
			Rep 1	Rep 2	Rep 3						Student's-t	Chebychev
1	163	80.00	73	90	86	3	0.01	83.0	8.9	5.1	98.0	105.4
2		6090.00	132	135	127	3	0.99	131.3	4.0	2.3	138.1	141.5
Combined DUs Weighted by Area		**6170.00**	--	--	--	**6**	**1.00**	**130.7**	**4.0**	**2.3**	**137.4**	**140.7**

Degrees of freedom by Welch-Satterthwaite approximation	**2.00**

Values in yellow cells are user-entered

Values in green cells are recommended UCLs

Notes

DU Decision unit

SD Standard deviation

SE Standard errror

UCL Upper confidence limit

References

ITRC. 2012. Technical and Regulatory Guidance, Incremental Sampling Methodology. February.

EPA. 2010. "ProUCL Version 4.1.00 Technical Guide (Draft)." Prepared by Singh, A. and A.K. Singh. EPA/600/R-07/041. May. Available online at: http://www.epa.gov/osp/hstl/tsc/ProUCL_v4.1_user.pdf

When there are multiple samples in each strata, the overall mean of the larger DU can be estimated using the following formulae. Let n_i represent the number of samples from region *i*, *x*-bar represent the mean of the ISM samples from region *i*, s_i represent the SD of the replicate ISM samples from region *i*, and w_i represent the weight, i.e., the relative size associated with region *i*. Note that if all strata are of the same size, the w_i are equal, and these equations simplify to the more common calculation methods for the mean and standard deviation. The relative size is the percentage of the larger DU that is made up of region *i*. The weighted mean is thus:

$$\text{Weighted Mean} = \sum_i w_i \bar{x}_i$$

The standard error associated with the weighted mean is:

$$\text{Standard Error} = \sqrt{\sum_i w_i^2 \frac{s_i^2}{n_i}}$$

which has degrees of freedom approximated by the Welch-Satterthwaite approximation (Cochran, 1977):

$$df \approx \frac{\left(\sum_i \frac{w_i^2}{n_i} s_i^2\right)^2}{\sum_i \frac{\left(\frac{w_i^2}{n_i} s_i^2\right)^2}{n_i - 1}}$$

Table C8. Calculation of Area-Weighted 95% UCLs for Yard Decision Units (DUs) Where Replicates Were Not Collected

Shapiro Brothers Site, Jefferson County, Missouri

SAMPLING UNITS WHERE NO REPLICATES WERE COLLECTED

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	105	600.00	1102		3	0.12	1102.0	62.0	35.8	1206.5	1258.0
2		4430.00	403		3	0.88	403.0	21.0	12.1	438.4	455.8
Combined SUs Weighted by Area		**5030.00**	--	--	**6**	**1.00**	**486.4**	**19.9**	**11.5**	**520.0**	**536.5**

Degrees of freedom by Welch-Satterthwaite approximation **2.62**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	106	320.00	561		3	0.06	561.0	9.0	5.2	576.2	583.6
2		5150.00	206		3	0.94	206.0	21.0	12.1	241.4	258.8
Combined SUs Weighted by Area		**5470.00**	--	--	**6**	**1.00**	**226.8**	**19.8**	**11.4**	**260.1**	**276.5**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
2	108	1.00	230		3	1.00	230.0	21.0	12.1	265.4	282.8
		0.00			3		0.0				
Combined SUs Weighted by Area		**1.00**	--	--	**6**	**1.00**	**230.0**	**21.0**	**12.1**	**265.4**	**282.8**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
2	109	1.00	288		3	1.00	288.0	21.0	12.1	323.4	340.8
		0.00	0		3		0.0				
Combined SUs Weighted by Area		**1.00**	--	--	**6**	**1.00**	**288.0**	**21.0**	**12.1**	**323.4**	**340.8**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	110	560.00	1576		3	0.06	1576.0	62.0	35.8	1680.5	1732.0
2		8600.00	473		3	0.94	473.0	21.0	12.1	508.4	525.8
Combined SUs Weighted by Area		**9160.00**	--	--	**6**	**1.00**	**540.4**	**20.1**	**11.6**	**574.3**	**591.0**

Degrees of freedom by Welch-Satterthwaite approximation **2.15**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
2	111	1.00	169		3	1.00	169.0	21.0	12.1	204.4	221.8
		0.00			3		0.0				
Combined SUs Weighted by Area		**1.00**	--	--	**6**	**1.00**	**169.0**	**21.0**	**12.1**	**204.4**	**221.8**

Degrees of freedom by Welch-Satterthwaite approximation **2.0**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
2	121	1.00	253		3	1.00	253.0	21.0	12.1	288.4	305.8
					3		0.0				
Combined SUs Weighted by Area		**1.00**	--	--	**6**	**1.00**	**253.0**	**21.0**	**12.1**	**288.4**	**305.8**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	117	300.00	1688		3	0.03	1688.0	62.0	35.8	1792.5	1844.0
2		9320.00	303		3	0.97	303.0	21.0	12.1	338.4	355.8
Combined SUs Weighted by Area		**9620.00**	--	--	**6**	**1.00**	**346.2**	**20.4**	**11.8**	**380.6**	**397.6**

Degrees of freedom by Welch-Satterthwaite approximation **2.04**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	119	2010.00	406		3	0.33	406.0	9.0	5.2	421.2	428.6
2		4020.00	171		3	0.67	171.0	21.0	12.1	206.4	223.8
Combined SUs Weighted by Area		**6030.00**	--	--	**6**	**1.00**	**249.3**	**14.3**	**8.3**	**273.5**	**285.4**

Degrees of freedom by Welch-Satterthwaite approximation **2.18**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
2	123	1.00	225		3	1.00	225.0	21.0	12.1	260.4	277.8
0		0.00			3		0.0				
Combined SUs Weighted by Area		**1.00**	--	--	**6**	**1.00**	**225.0**	**21.0**	**12.1**	**260.4**	**277.8**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	127	400.00	677		3	0.07	677.0	9.0	5.2	692.2	699.6
2		5460.00	205		3	0.93	205.0	21.0	12.1	240.4	257.8
Combined SUs Weighted by Area		**5860.00**	--	--	**6**	**1.00**	**237.2**	**19.6**	**11.3**	**270.2**	**286.5**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

Table C8. Calculation of Area-Weighted 95% UCLs for Yard Decision Units (DUs) Where Replicates Were Not Collected

Shapiro Brothers Site, Jefferson County, Missouri

SAMPLING UNITS WHERE NO REPLICATES WERE COLLECTED

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	129	110.00	176		3	0.01	176.0	9.0	5.2	191.2	198.6
2		7380.00	165		3	0.99	165.0	21.0	12.1	200.4	217.8
Combined SUs Weighted by Area		**7490.00**	--	--	**6**	**1.00**	**165.2**	**20.7**	**11.9**	**200.0**	**217.2**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	133	70.00	202		3	0.02	202.0	9.0	5.2	217.2	224.6
2		3090.00	212		3	0.98	212.0	21.0	12.1	247.4	264.8
Combined SUs Weighted by Area		**3160.00**	--	--	**6**	**1.00**	**211.8**	**20.5**	**11.9**	**246.4**	**263.5**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	134	150.00	149		3	0.02	149.0	9.0	5.2	164.2	171.6
2		9430.00	141		3	0.98	141.0	21.0	12.1	176.4	193.8
Combined SUs Weighted by Area		**9580.00**	--	--	**6**	**1.00**	**141.1**	**20.7**	**11.9**	**176.0**	**193.1**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	135	210.00	292		3	0.02	292.0	9.0	5.2	307.2	314.6
2		9310.00	132		3	0.98	132.0	21.0	12.1	167.4	184.8
Combined SUs Weighted by Area		**9520.00**	--	--	**6**	**1.00**	**135.5**	**20.5**	**11.9**	**170.2**	**187.2**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	139	70.00	229		3	0.01	229.0	9.0	5.2	244.2	251.6
2		5740.00	160		3	0.99	160.0	21.0	12.1	195.4	212.8
Combined SUs Weighted by Area		**5810.00**	--	--	**6**	**1.00**	**160.8**	**20.7**	**12.0**	**195.8**	**213.0**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	143	85.00	268		3	0.02	268.0	9.0	5.2	283.2	290.6
2		3400.00	445		3	0.98	445.0	21.0	12.1	480.4	497.8
Combined SUs Weighted by Area		**3485.00**	--	--	**6**	**1.00**	**440.7**	**20.5**	**11.8**	**475.2**	**492.2**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	148	90.00	190		3	0.02	190.0	9.0	5.2	205.2	212.6
2		5600.00	133		3	0.98	133.0	21.0	12.1	168.4	185.8
Combined SUs Weighted by Area		**5690.00**	--	--	**6**	**1.00**	**133.9**	**20.7**	**11.9**	**168.7**	**185.9**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	155	70.00	261		3	0.03	261.0	9.0	5.2	276.2	283.6
2		2360.00	203		3	0.97	203.0	21.0	12.1	238.4	255.8
Combined SUs Weighted by Area		**2430.00**	--	--	**6**	**1.00**	**204.7**	**20.4**	**11.8**	**239.1**	**256.0**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
2	157	1.00	97		3	1.00	97.0	21.0	12.1	132.4	149.8
		0.00			3		0.0				
Combined SUs Weighted by Area		**1.00**	--	--	**6**	**1.00**	**97.0**	**21.0**	**12.1**	**132.4**	**149.8**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
2	158	1.00	159		3	1.00	159.0	21.0	12.1	194.4	211.8
		0.00			3		0.0				
Combined SUs Weighted by Area		**1.00**	--	--	**6**	**1.00**	**159.0**	**21.0**	**12.1**	**194.4**	**211.8**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	159	120.00	487		3	0.03	487.0	9.0	5.2	502.2	509.6
2		4550.00	180		3	0.97	180.0	21.0	12.1	215.4	232.8
Combined SUs Weighted by Area		**4670.00**	--	--	**6**	**1.00**	**187.9**	**20.5**	**11.8**	**222.4**	**239.4**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

Table C8. Calculation of Area-Weighted 95% UCLs for Yard Decision Units (DUs) Where Replicates Were Not Collected

Shapiro Brothers Site, Jefferson County, Missouri

SAMPLING UNITS WHERE NO REPLICATES WERE COLLECTED

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
2	161	1.00	86		3	1.00	86.0	21.0	12.1	121.4	138.8
		0.00			3		0.0				
Combined SUs Weighted by Area		**1.00**	--	--	**6**	**1.00**	**86.0**	**21.0**	**12.1**	**121.4**	**138.8**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
2	164	1.00	118		3	1.00	118.0	21.0	12.1	153.4	170.8
		0.00									
Combined SUs Weighted by Area		**1.00**	--	--	**3**	**1.00**	**118.0**	**21.0**	**12.1**	**153.4**	**170.8**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	174	210.00	348		3	0.03	348.0	9.0	5.2	363.2	370.6
2		6170.00	305		3	0.97	305.0	21.0	12.1	340.4	357.8
Combined SUs Weighted by Area		**6380.00**	--	--	**6**	**1.00**	**306.4**	**20.3**	**11.7**	**340.7**	**357.5**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	175	100.00	146		3	0.02	146.0	9.0	5.2	161.2	168.6
2		5980.00	134		3	0.98	134.0	21.0	12.1	169.4	186.8
Combined SUs Weighted by Area		**6080.00**	--	--	**6**	**1.00**	**134.2**	**20.7**	**11.9**	**169.0**	**186.2**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
2	176	4920.00	251		3	0.98	251.0	21.0	12.1	286.4	303.8
4		80.00	300		3	0.02	300.0	21.0	12.1	335.4	352.8
Combined SUs Weighted by Area		**5000.00**	--	--	**6**	**1.00**	**251.8**	**20.7**	**11.9**	**286.6**	**303.8**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
2	179	1.00	168		3	1.00	168.0	21.0	12.1	203.4	220.8
		0.00			3		0.0				
Combined SUs Weighted by Area		**1.00**	--	--	**6**	**1.00**	**168.0**	**21.0**	**12.1**	**203.4**	**220.8**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
2	180	1.00	104		3	1.00	104.0	21.0	12.1	139.4	156.8
		0.00			3		0.0				
Combined SUs Weighted by Area		**1.00**	--	--	**6**	**1.00**	**104.0**	**21.0**	**12.1**	**139.4**	**156.8**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	215	220.00	350		3	0.04	350.0	9.0	5.2	365.2	372.6
2		5550.00	216		3	0.96	216.0	21.0	12.1	251.4	268.8
Combined SUs Weighted by Area		**5770.00**	--	--	**6**	**1.00**	**221.1**	**20.2**	**11.7**	**255.2**	**272.0**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
2	216	1.00	443		3	1.00	443.0	21.0	12.1	478.4	495.8
		0.00			3		0.0				
Combined SUs Weighted by Area		**1.00**	--	--	**6**	**1.00**	**443.0**	**21.0**	**12.1**	**478.4**	**495.8**

Degrees of freedom by Welch-Satterthwaite approximation **2.00**

SU	Loc ID	SU Area (ft^2)	Estimate of Mean		Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SE of DU	95% UCL Student's-t	95% UCL Chebychev
1	217	700.00	385		3	0.17	385.0	9.0	5.2	400.2	407.6
2		3480.00	264		3	0.83	264.0	21.0	12.1	299.4	316.8
Combined SUs Weighted by Area		**4180.00**	--	--	**6**	**1.00**	**284.3**	**17.5**	**10.1**	**313.8**	**328.4**

Degrees of freedom by Welch-Satterthwaite approximation **2.03**

Values in yellow cells are user-entered

Values in green cells are recommended UCLs

Table C8. Calculation of Area-Weighted 95% UCLs for Yard Decision Units (DUs) Where Replicates Were Not Collected

Shapiro Brothers Site, Jefferson County, Missouri

SAMPLING UNITS WHERE NO REPLICATES WERE COLLECTED

Notes

DU Decision unit
SD Standard deviation
SE Standard errror
UCL Upper confidence limit
User-entered SD of replicates obtained from SUs in which replicates were collected (see Table C6)

References

ITRC. 2012. Technical and Regulatory Guidance, Incremental Sampling Methodology. February.
EPA. 2010. "ProUCL Version 4.1.00 Technical Guide (Draft)." Prepared by Singh, A. and A.K. Singh. EPA/600/R-07/041. May. Available online at:

When there are multiple samples in each strata, the overall mean of the larger DU can be estimated using the following formulae. Let n_i represent the number of samples from region i, x–bar$i$ represent the mean of the ISM samples from region i, s_i represent the SD of the replicate ISM samples from region i, and w_i represent the weight, i.e., the relative size associated with region i. Note that if all strata are of the same size, the w_i are equal, and these equations simplify to the more common calculation methods for the mean and standard deviation. The relative size is the percentage of the larger DU that is made up of region i. The weighted mean is thus:

$$\textbf{Weighted Mean} = \sum_i w_i \bar{x}_i$$

The standard error associated with the weighted mean is:

$$\textbf{Standard Error} = \sqrt{\sum_i w_i^2 \frac{s_i^2}{n_i}}$$

which has degrees of freedom approximated by the Welch-Satterthwaite approximation (Cochran, 1977):

$$df \approx \frac{\left(\sum_i \frac{w_i^2}{n_i} s_i^2\right)^2}{\sum_i \frac{\left(\frac{w_i^2}{n_i} s_i^2\right)^2}{n_i - 1}}$$

Table C9. Summary of Selected Lead Results, Background Samples
Shapiro Brothers Salvage Site, Jefferson County, Missouri

Loc ID	SU	Area, square feet	Lead Concentration, mg/kg			
			Max[1]	Pb, Lab mg/kg	Average[2]	Wipe, Pb ug/ft^2
218 (Background Yard)	2	NA	--	--	180	--
	Wipe, siding	--	--	--	--	<20
	Drip Zone	--	350	--	--	--
221 (Background Yard)	2	NA	--	--	140	--
	Drip Zone	--	170	--	--	--
222 (Background Yard)	2	NA	--	--	90	--
	Drip Zone	--	100	--	--	--
224 (Background Yard)	2	NA	--	--	140	--
	Wipe, chair	--	--	--	--	28
	Wipe, siding	--	--	--	--	<20
	Drip Zone	--	530	--	--	--
300 (Park Background)	---	10,000	---	45	42	--
301 (Park Background)	---	10,000	---	55	50	--
302 (Park Background)	---	10,000	---	99	89	--
Street Sweepings (Background)	---	NA	---	--	190	--

[1] Maximum lead concentration measured in the drip zone via in-situ XRF analyses.

[2] Result from incremental composite sample collected from the sampling unit

Table C10: Selected Analytical Results for Soil and Waste Samples
Shapiro Brothers Salvage Site, Festus, Missouri

- All values listed in parts per million (mg/kg) unless otherwise noted.
- NL denotes benchmark value not listed in reference source.
- NA denotes not analyzed

Sample Tag Number	1201151 / 1201152	1201153 / 1201154	1201155 / 1201156	1201157 / 1201158	1201159 / 1201160	1201161 / 1201162	1201163 / 1201164	1201165 / 1201166	1201167 / 1201168	1201170 / 1201170	1201171 / 1201172	H1000001	H1000003	H1000014	SCDM[1]	MRBCA RBTL[2]			EPA SL[3]		
Sample ID	Truck Wash Solids TW 1-4	Truck Wash Solids TW 5-8	Truck Wash Solids TW 9-12	Street Sweepings Sacks A,B,C,D	N. End RR Spur	E. Roadway near Maint. Bldg	Scrap Pile East Edge Near Shear	E. Roadway T-junctn. Between Scrap Piles 1&2	Head of E. Roadway N. or Shredder	Fluff Material from Fluff Pile	Soil From Under Fluff Pile	Loc_ID 110	Loc_ID 103	Soil Under Transformer							
Date Collected	01/11/12	01/11/12	01/11/12	01/11/12	01/11/12	01/11/12	01/11/12	01/11/12	01/11/12	01/11/12	01/11/12	04/10/12	04/09/12	04/10/12							
Depth of Sample, in	--	--	--	--	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1		Res.	Non-Res	Migrn to GW	Res.	Ind.	Migrn to GW
Laboratory Number	AB65031/AB65042	AB65032/AB65043	AB65044/AB65033	AB65045/AB65034	AB65046/AB65035	AB65047/AB65036	AB65048/AB65037	AB65038/AB65038	AB65039/AB65050	AB65040/AB65051	AB65071/AB65071	AB76419	AB76421	AB76432							
Metals																					
Antimony	6.58	10.7	9.96	8.17	10.7	14.9	84.4	10.6 (f)	6.66	24.8	47.5	NA	NA	NA	31	30.4	383	6.67	31	410	0.66
Arsenic	5.98	7.93	9.72	6.81	12.2	14.1	74.0	25.6 (f)	5.55	13.1	19.1	5.22	4.69	NA	0.43	3.89	15.9	7.22	0.39	1.6	0.0013
Barium	436.0	427.0	476.0	436.0	446.0	365.0	333.0	219.0	274.0	1,360.0	2,140.0	NA	NA	NA	5500	15000	181000	2040	15000	190000	300
Beryllium	.15 (e)	.155 (e)	.161 (e)	.176 (e)	.16 (e)	.246 (e)	.159 (e)	.243 (e)	.132 (e)	.118 (e)	.115 (e)	NA	NA	NA	160	0.737	3.19	78.4	160	2000	58
Cadmium	17.1	18.1	19.5	17.1	21.6	43.9	480.0	41.9	21.1	30.5	35.1	16.2	10.5	NA	39	16.8	74.8	9.32	70	80	1.4
Chromium	49.9	52.1	62.6	72.1	213.0	130.0	1,130.0	85.7	43.5	337.0	443.0	NA	NA	NA	230	74600	472000	4E+06	120000	1500000	9.9E+07
Copper	210.0	588.0	6,620.0	885.0	536.0	3,820.0	1,940.0	1,260.0	587.0	1,880.0	2,240.0	NA	NA	NA	NL	3040	38100	618	3100	41000	51
Lead	2,170.0	3,980.0	2,470.0	2,440.0	3,480.0	10,500.0	37,400.0	16,200.0	1,620.0	1,890.0	4,420.0	1,620.0	1,250.0	NA	NL	260	660	3.76	400	800	NL
Mercury	.17	.195	.15	.134	.102	.835	.583	.235	.342	.292	1.28 (f)	NA	NA	NA	23	46.3	630	NL	5.6	34	0.03
Nickel	35.3	40.0	50.6	41.0	181.0	109.0	428.0	115.0	58.0	193.0	1,260.0	NA	NA	NA	1600	1510	18600	505	1500	20000	48
Selenium	<1	<1	<1	<1	<1	<1	1.84 (e)	<1	<1	1.12 (e)	<1	NA	NA	NA	390	380	4780	6.34	390	5100	0.95
Silver	1.27 (k)	.827 (k)	1.27	1.71	.876	2.93	11.7	12.0	.687	1.16	1.94	NA	NA	NA	390	374	4480	16.3	390	5100	1.6
Thallium	1.07 (e)	1.59 (e)	1.25 (e)	1.85 (e)	1.06 (e)	1.4 (e)	3.26	1.49 (e)	2.31 (e)	1.43 (e)	<1	NA	NA	NA	NL	6.09	76.7	2.2	NL	NL	NL
Zinc	607.0	981.0	1,170.0	939.0	1,360.0	1,350.0	4,460.0	2,130.0	1,860.0	13,700.0	15,500.0	NA	NA	NA	23000	22800	288000	7220	23000	310000	680
Semi-Volatile Organic Compounds (SVOCs)																					
2-Methylnaphthalene	<0.595	<0.62	<0.565	<0.57	<0.725	<0.565	<0.59	<0.57	<0.555	.936 (e)	NA	<0.05	NA	NA	NL	273	3590	7.56	NL	NL	NL
4-Chloro-3-methylphenol	<0.595	<0.62	<0.565	<0.57	.753 (e)	<0.565	13.2	<0.57	<0.555	<0.585	NA	<0.05	NA	NA	NL	NL	NL	NL	6100	62000	4.3
Benzo(a)anthracene	<0.595	<0.62	<0.565	<0.57	<0.725	<0.565	<0.59	<0.57	<0.555	<0.585	NA	.833 (c)	NA	NA	0.88	6.2	21.1	6.12	0.15	2.1	0.01
Benzo(a)pyrene	<0.595	<0.62	<0.565	.577 (e)	<0.725	<0.565	<0.59	<0.57	<0.555	<0.585	NA	1.59 (c)	NA	NA	0.088	0.62	2.11	30.4	0.015	0.21	0.0035
Benzo(b)fluoranthene	<0.595	<0.62	<0.565	.592 (e)	<0.725	<0.565	<0.59	<0.57	<0.555	<0.585	NA	1.2 (c)	NA	NA	NL	6.19	21	11.5	0.15	2.1	0.035
Benzo(g,h,i)perylene	<0.595	<0.62	<0.565	<0.57	<0.725	<0.565	<0.59	<0.57	<0.555	<0.585	NA	.852 (c)	NA	NA	NL	1720	16500	6210	NL	NL	NL
bis(2-Ethylhexyl) phthalate (DEHP)	<1.19	<1.24	1.6 (e)	1.94 (e)	5.93	<1.13	4.63	1.99 (e)	6.19	58.7	NA	<0.1	NA	NA	46	347	1230	13500	35	120	1.1
Chrysene	<0.595	<0.62	<0.565	.686 (e)	<0.725	<0.565	<0.59	<0.57	<0.555	<0.585	NA	1.18 (c)	NA	NA	88	605	2020	612	15	210	1.1
Dimethyl phthalate	<0.595	<0.62	<0.565	<0.57	24.8	<0.565	<0.59	<0.57	<0.555	.988 (e)	NA	<0.05	NA	NA	NL	574000	5680000	1350	NL	NL	NL
Di-n-butyl phthalate	<0.595	<0.62	<0.565	.994 (e)	<0.725	<0.565	<0.59	<0.57	<0.555	.986 (e)	NA	<0.05	NA	NA	7800	6110	61600	5470	6100	62000	9.2
Fluoranthene	<0.595	<0.62	<0.565	1.62	.948 (e)	<0.565	.74 (e)	<0.57	<0.555	<0.585	NA	2.0 (c)	NA	NA	3100	2280	21800	2610	2300	22000	160
Indeno(1,2,3-cd)pyrene	<0.595	<0.62	<0.565	<0.57	<0.725	<0.565	<0.59	<0.57	<0.555	<0.585	NA	1.13 (c)	NA	NA	0.88	3.77	12.8	19.7	0.15	2.1	0.12
Phenanthrene	<0.595	<0.62	<0.565	.688 (e)	<0.725	<0.565	<0.59	<0.57	<0.555	<0.585	NA	<0.05	NA	NA	NL	2220	27500	158	NL	NL	NL
Phenol	<0.595	<0.62	<0.565	<0.57	.788 (e)	<0.565	.661 (e)	<0.57	<0.555	.771 (e)	NA	<0.05	NA	NA	23000	11800	128000	32.4	18000	180000	6.3
Pyrene	<0.595	<0.62	<0.565	1.24	.834 (e)	<0.565	.653 (e)	<0.57	<0.555	<0.585	NA	1.64	NA	NA	2300	1710	16400	1500	1700	17000	120
PBDE-209	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.8	NA	NA	NA	NL	NL	NL	NL	428	NL	NL
PBDE-47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.3	NA	NA	NA	NL	NL	NL	NL	6.11	NL	NL
PBDE-99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.6	NA	NA	NA	NL	NL	NL	NL	6.11	NL	NL
Dioxin, ug/pg (ppt)																					
1,2,3,4,6,7,8,9-OCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11,000.0 (h)	NA	NA	NA	NL	NL	NL	NL	NL	NL	NL
1,2,3,4,6,7,8,9-OCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	320.0 (h)	NA	NA	NA	NL	NL	NL	NL	NL	NL	NL
1,2,3,4,6,7,8-HpCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,200.0 (h)	NA	NA	NA	4300	NL	NL	NL	NL	NL	NL
1,2,3,4,6,7,8-HpCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	120.0 (h,k)	NA	NA	NA	4300	NL	NL	NL	NL	NL	NL
1,2,3,4,7,8-HxCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.4 (e)	NA	NA	NA	110	NL	NL	NL	NL	NL	NL
1,2,3,4,7,8-HxCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23.0 (h)	NA	NA	NA	430	NL	NL	NL	NL	NL	NL
1,2,3,6,7,8-HxCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	38.0 (h)	NA	NA	NA	110	NL	NL	NL	NL	NL	NL
1,2,3,6,7,8-HxCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.0 (h)	NA	NA	NA	430	NL	NL	NL	NL	NL	NL
1,2,3,7,8,9-HxCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28.0 (h)	NA	NA	NA	110	NL	NL	NL	NL	NL	NL
2,3,4,6,7,8-HxCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.0 (h)	NA	NA	NA	430	NL	NL	NL	NL	NL	NL
2,3,7,8-TCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.6 (k)	NA	NA	NA	4.3	NL	NL	NL	4.5	18	15
2,3,7,8-TCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7	NA	NA	NA	43	NL	NL	NL	NL	NL	NL
Pesticides/Herbicides																					
Toxaphene	<0.6	2.5	<0.565	<0.57	<0.725	<0.565	<0.585	<0.57	<0.555	<0.585	NA	NA	<0.0508	NA	0.58	4.41	15.7	115	0.44	1.6	0.0094
Polychlorinated Biphenyls (PCBs)																					
Aroclor-1242	.686	<0.124	<.559	<.371	<0.145	<.232	<0.117	<0.114	<2.09	<7.6	NA	NA	NA	<0.01008	NL	1.03	6.94	0.0558	0.22	0.74	0.0053

[1] SCDM - Superfund Chemical Data Matrix, January 28, 2004, lower of reference dose and cancer risk benchmarks for soil pathway

[2] MRBCA RBTL- Missouri Risk-Based Corrective Action Risk-Based Target Level, June 2006. RBTLs are for soil type 2 (silty), residential and non-residential land use, and soil concentrations protective of groundwater.

[3] EPA SL - EPA Regional Screening Levels, November, 2010, residential and industrial use, and migration to groundwater (DAF=1).

c - Exceeded holding time
e - Estimated value, detected below PQL
f - Estimated value, QC data outside limits
i - PQL elevated due to sample dilution
k - Estimated value, matrix interference

Table C11. Overal Soil Sampling and Analysis Precision
Shapiro Brothers Salvage, Festus, Missouri

Location ID / Sampling Unit	%RSD of Lead Concentration Between 3 Field Replicate Samples
103 / SU1	5.6
103 / SU2	4.3
115 / SU1	2.4
115 / SU2	3.8
116 / SU1	4.9
116 / SU2	4.1
120 / SU1	8
120 / SU2	6.6
124 / SU2	9
124 / SU4	9.9
125 / SU1	4
125 / SU2	1.1
125 / SU3	9.2
146 / SU1	1.2
146 / SU2	16.7
154 / SU1	5.8
154 / SU2	7.6
160 / SU1	6.5
160 / SU2	4.4
163 / SU1	10.7
163 / SU2	3.1
221 / SU2	21

Table C12: Surface Water Sampling Precision Relative Percent Difference (RPD) Between Duplicate Samples Samples Collected April 9, 2012 Shaprio Brothers Salvage, Festus, Missouri			
All results are in ug/l unless otherwise noted			
Sample Tag Number	**1201180**	**1201183**	**RPD**
Sample ID	**SW01**	**SW01 dup**	
Location	**12th St. Bridge**	**12th St. Bridge**	
Laboratory Number	**AB79149**	**AB79150**	
Water Quality Indicators			
Hardness, as CaCO3 Dissolved-N	529.0	505.0	4.6
Hardness, as CaCO3-TR-N	485.0	513.0	5.6
Metals			
Arsenic	.72 (e)	.84 (e)	15.4
Arsenic, dissolved	.99 (e)	1.07	7.8
Cadmium	1.02	1.39	30.7
Cadmium, dissolved	.65	.65	0.0
Calcium	125.0	119.0	4.9
Calcium, dissolved	115.0	121.0	5.1
Copper	25.6	29.3	13.5
Copper, dissolved	13.2	12.7	3.9
Lead	34.3	56.1	48.2
Lead, dissolved	1.25	1.12	11.0
Magnesium	52.6	50.4	4.3
Magnesium, dissolved	48.0	51.1	6.3
Zinc	59.8	69.3	14.7
Zinc, dissolved	40.9	40.8	0.2

Table C13: Sediment Sampling Precision Relative Percent Difference (RPD) Between Duplicate Samples Samples Collected April 9, 2012 Shaprio Brothers Salvage, Festus, Missouri			
All results are in mg/kg			
Sample Tag Number	**H100015**	**H100016**	**RPD**
Sample ID	**SD01**	**SD dup.**	
Location	**12th St. Bridge**	**12th St. Bridge**	
Laboratory Number	**AB79149**	**AB79150**	
Arsenic	10.0	9.25	7.8
Cadmium	15.3	16.6	8.2
Copper	446.0	388.0	13.9
Lead	1,560.0	1,510.0	3.3
Zinc	785.0	788.0	0.4

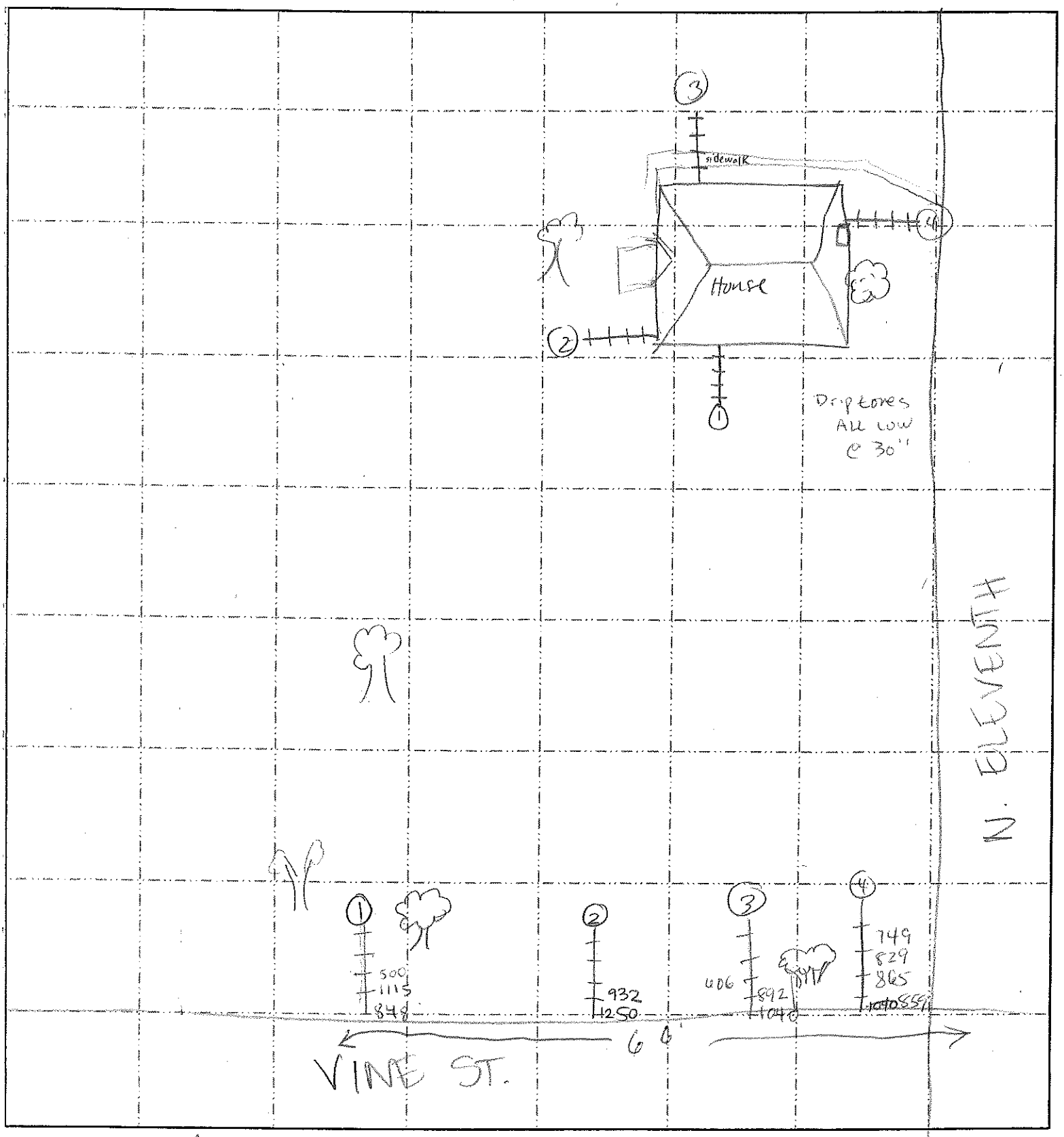
APPENDIX D
SAMPLING AND ANALYTICAL DATA

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 110 STREET: 1019 Vine St.

* WIPE

N



XRF SerNum(s) ALL Date Screened/Sampled 4-10-12

Team Member(s): ALL

66' wide

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 110

Owner Contact Information:

Owner: Kohler Nadine & Roberts Carla

Physical Address of Property Sampled: 1019 Vine St.

Phone 1: 314-607-8271 Phone 2: _____

Dog Issues? no **Year Built:** 1944

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 1 **Number of Children:** 0

Physical Description of House/Property:

single story located at rear of double lot Vine & 11th

Comments:

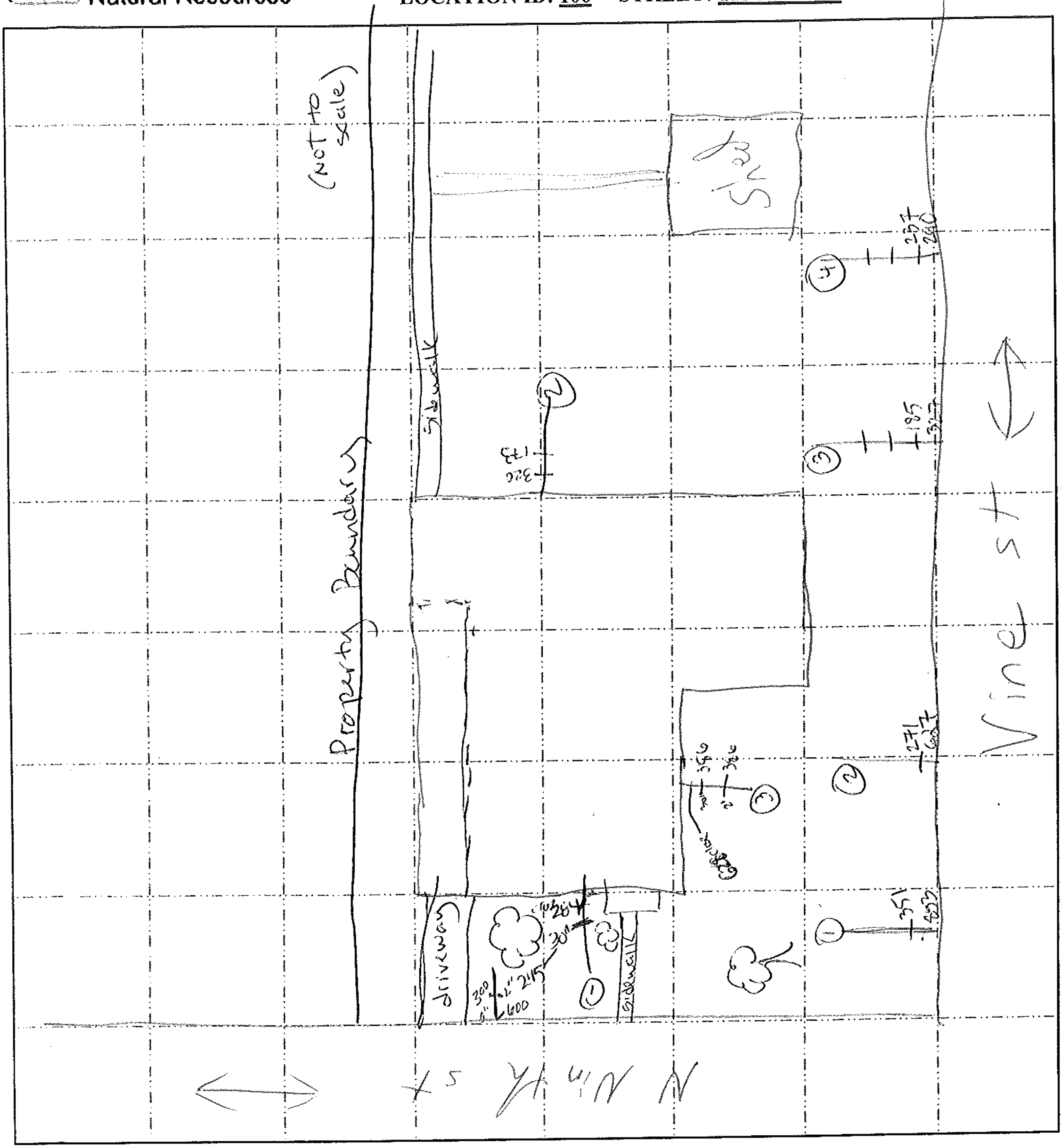
hse faces vine/driveway off 11th

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 106 STREET: 115 Ninth St.

N



XRF SerNum(s)______________ Date Screened/Sampled______________

Team Member(s):__________________

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 106

Owner Contact Information:

Owner: Courtois Vincent

Physical Address of Property Sampled: 115 Ninth St.

Phone 1: 636-937-5593 Phone 2: _____

Dog Issues? no **Year Built:** 1943

Occupant Contact Info (if not owner-occupied):

Name(s): Betty Courtois

Number of Residents: 1 **Number of Children:** 0

Physical Description of House/Property:

corner house-gray siding-stone front-white shutters

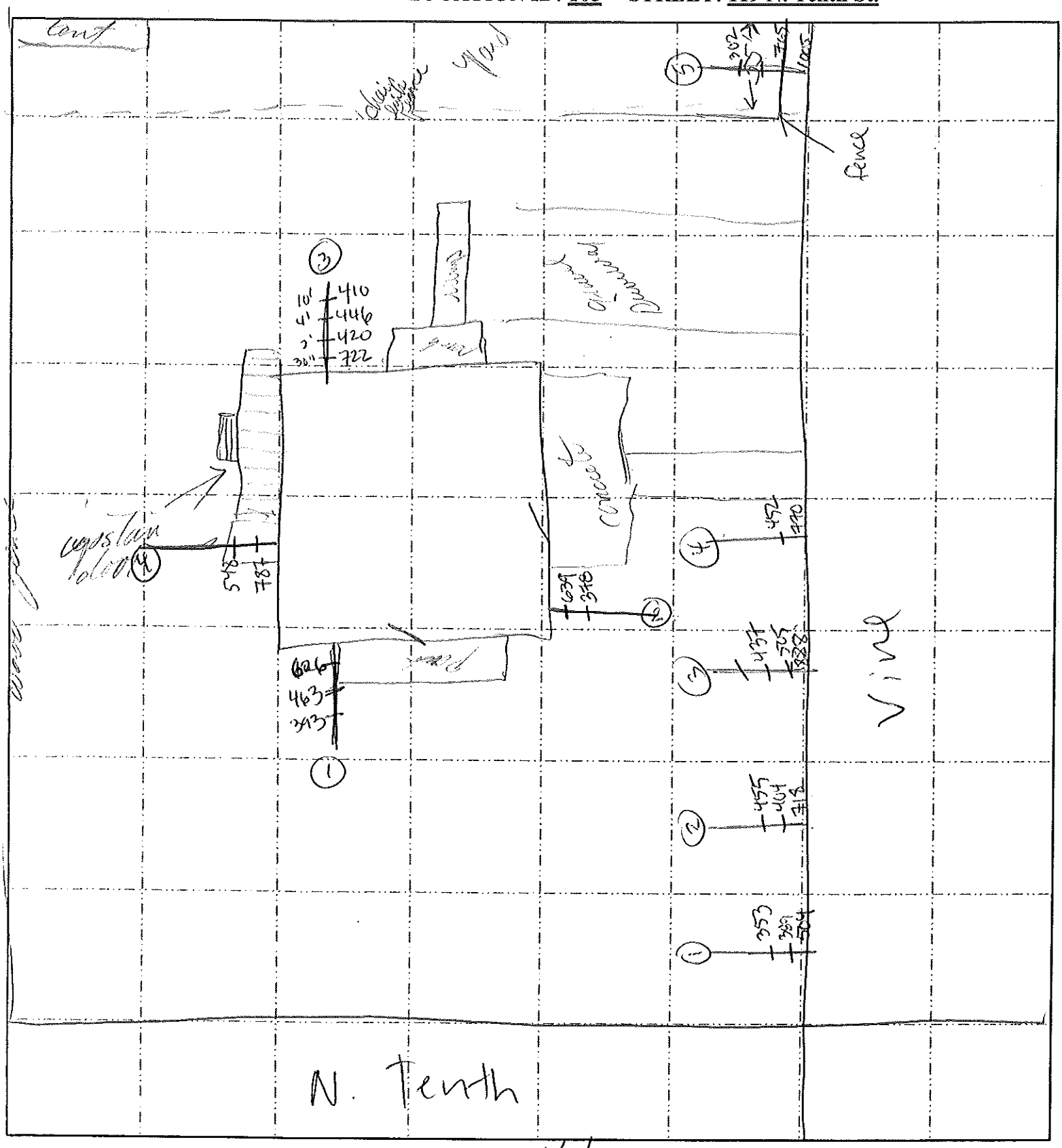
Comments:

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 105 STREET: 119 N. Tenth St.

N



XRF SerNum(s)_____ Date Screened/Sampled 4/10/2012

Team Member(s):_____

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 105

Owner Contact Information:

Owner: Cook Richard W

Physical Address of Property Sampled: 119 N. Tenth St.

Phone 1: 314-560-6056 Phone 2: _____

Dog Issues? no **Year Built:** 1941

Occupant Contact Info (if not owner-occupied):

Name(s): James Commerford Veronica Hilburn

Number of Residents: 3 **Number of Children:** 0

Physical Description of House/Property:

2 story w/apartment upstairs

Comments:

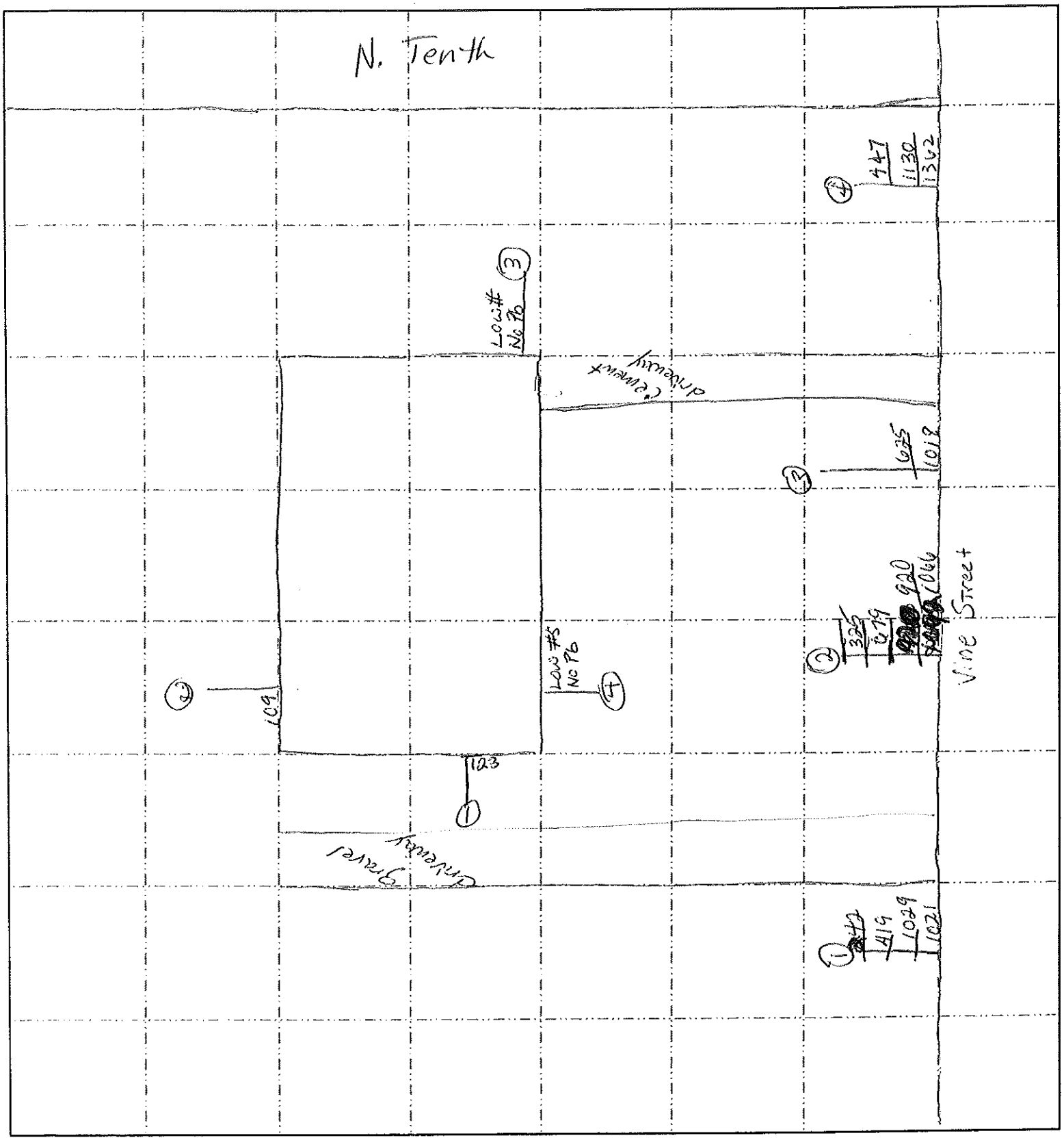
wants to test dust & air ducts

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 116 STREET: 913 Vine St.

N



XRF SerNum(s)_____ Date Screened/Sampled 4-10-12

Team Member(s):_____

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 116

Owner Contact Information:

Owner: Portell Philip & Deborah

Physical Address of Property Sampled: 913 Vine St.

Phone 1: 636-937-2166 Phone 2: _____

Dog Issues? no **Year Built:** 1960

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 2 **Number of Children:** 0

Physical Description of House/Property:

corner of 10th & vine, gray siding, rock halfway up

Comments:

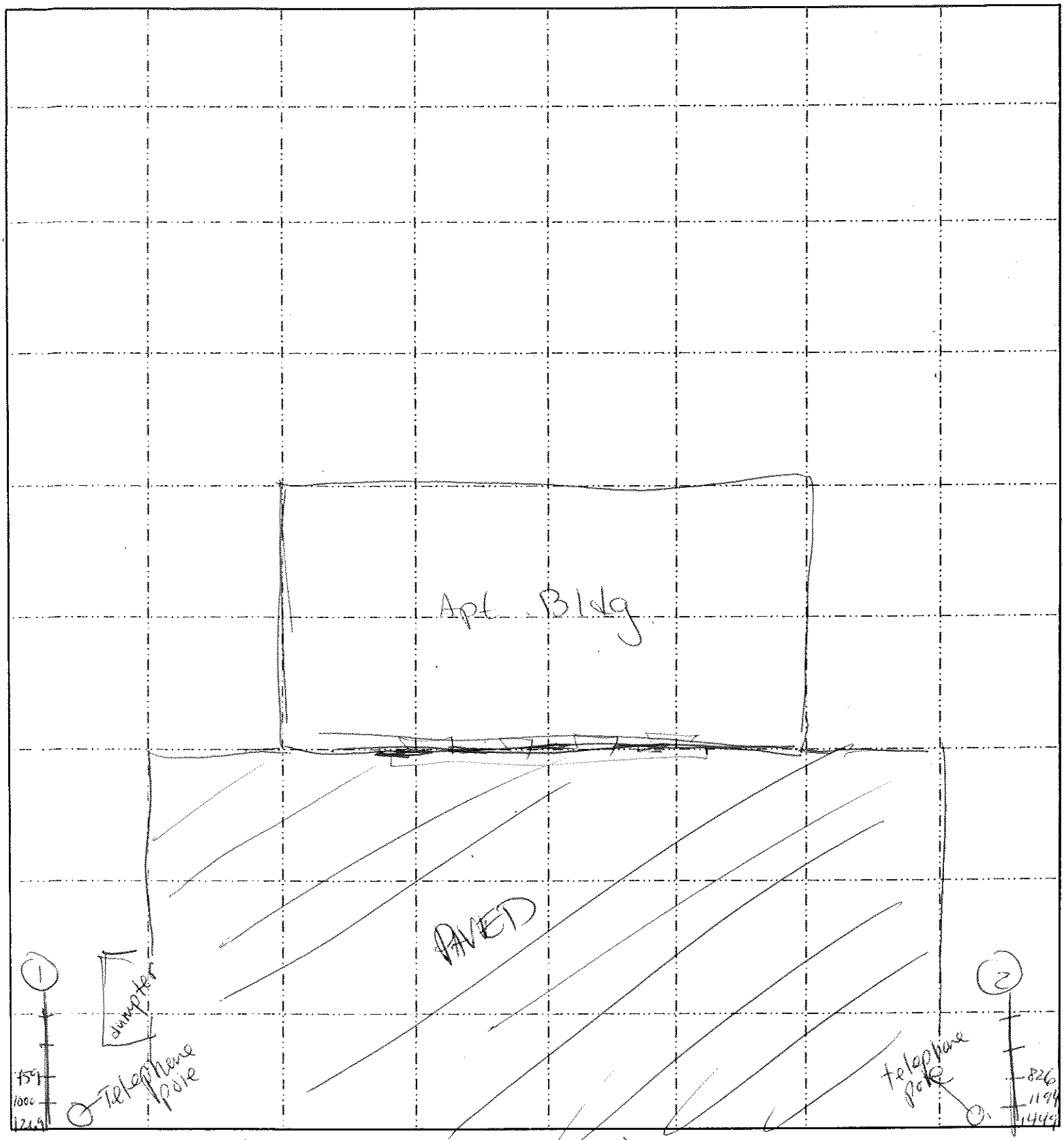
gray & white concrete patio set front yard

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 117 STREET: 1011-1017 Vine St.

N



XRF SerNum(s) All Date Screened/Sampled 4-10-12

Team Member(s): All

18' wide

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 117

Owner Contact Information:

Owner: Rhoads Derek & Teresa

Physical Address of Property Sampled: 1011-1017 Vine St.

Phone 1: 314-623-1333 Phone 2: _____

Dog Issues? no **Year Built:** 1995

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 7 **Number of Children:** 1

Physical Description of House/Property:

2 story 4 plex, yellow siding, green door, green shutters

Comments:

1017 is empty

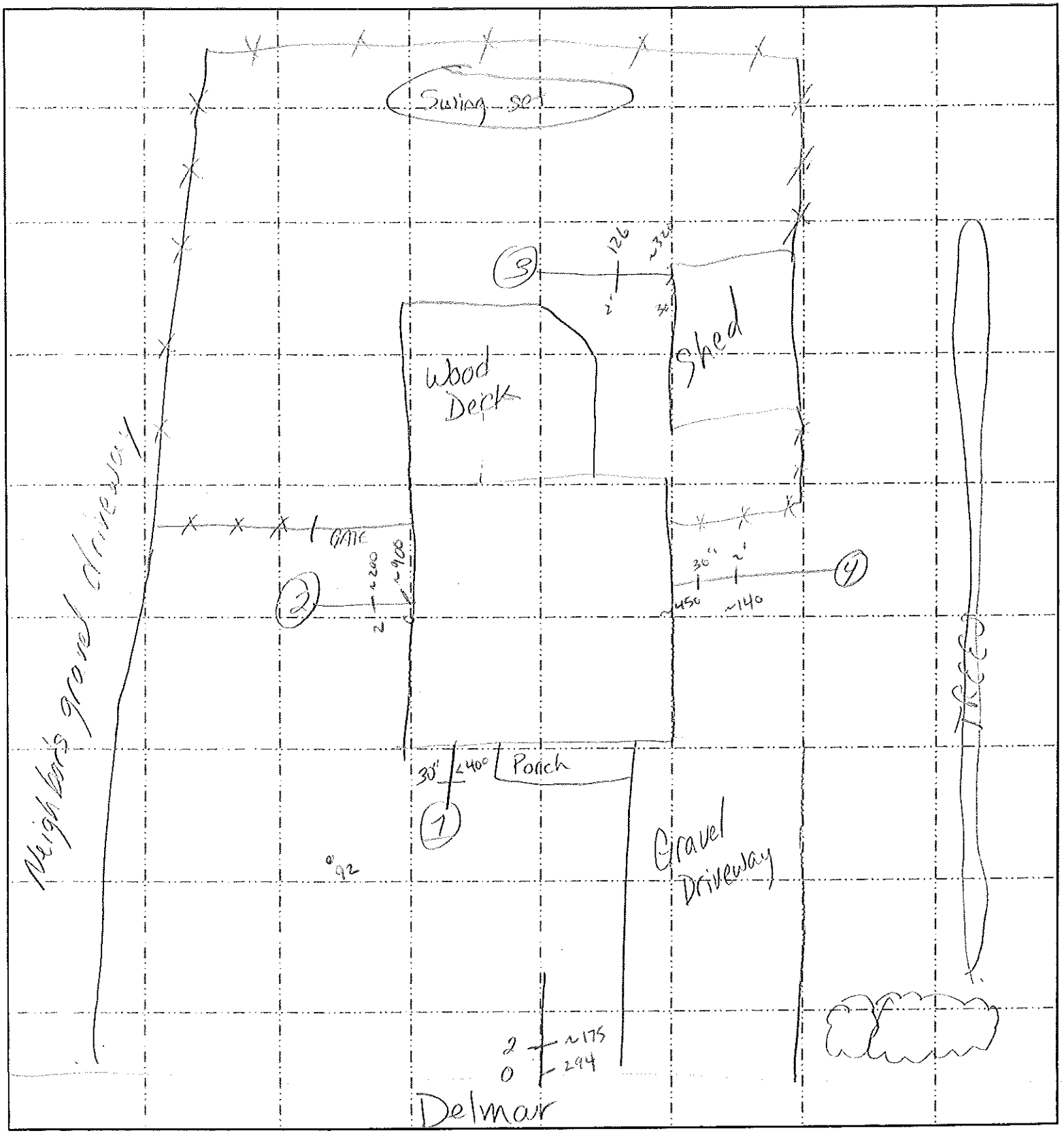
1941 - moved in.
1956 - large shed/da built

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 129 STREET: 834 Delmar Ave

N



XRF SerNum(s)_____ Date Screened/Sampled 4-11-12

Team Member(s):_____

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 129

Owner Contact Information:

Owner: Jercinovic John & Kathy

Physical Address of Property Sampled: 834 Delmar Ave

Phone 1: 636-931-0178 Phone 2: 314-814-0178

Dog Issues? yes **Year Built:** 1945

Occupant Contact Info (if not owner-occupied):

Name(s): Bobbie Hedrick Cory Welker

Number of Residents: 2 **Number of Children:** 0

Physical Description of House/Property:

Brown 1 story frame

Comments:

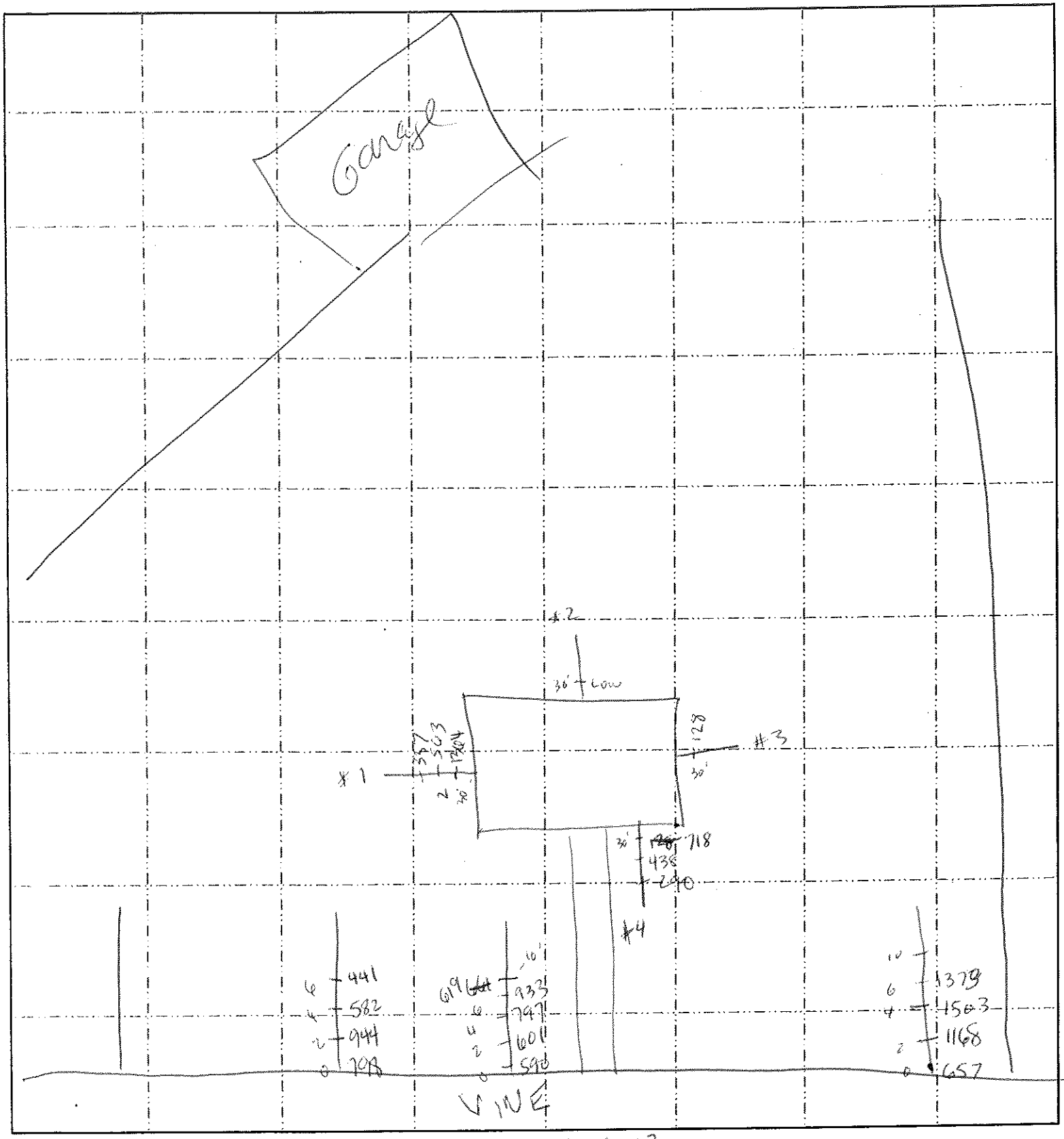
doesn't say if dog is mean

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 115 STREET: 1009 Vine St.

N



XRF SerNum(s) ALL Date Screened/Sampled 4-10-12

Team Member(s): ALL

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 115

Owner Contact Information:

Owner: Nokes Melba

Physical Address of Property Sampled: 1009 Vine St.

Phone 1: 636-937-4282 Phone 2: _____

Dog Issues? no **Year Built:** 1941

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 2 **Number of Children:** 0

Physical Description of House/Property:

yellow siding, long driveway, garage at end

Comments:

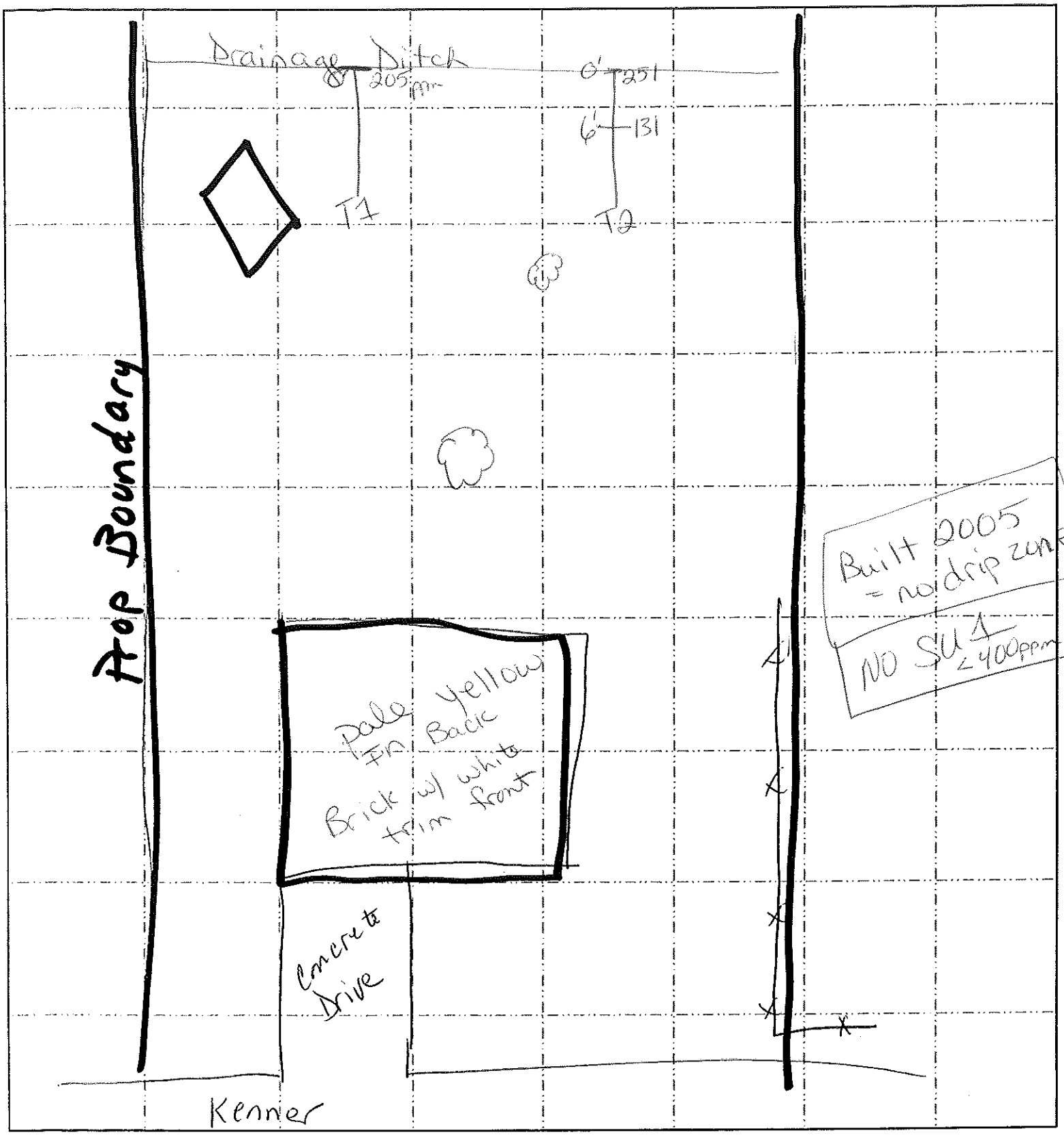
would also like samples from gutters.

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 111 STREET: 1211 Kenner St.

N



XRF SerNum(s)_____ Date Screened/Sampled 4-11-12

Team Member(s): Shelly

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 111

Owner Contact Information:

Owner: Krieg Michael & Amy

Physical Address of Property Sampled: 1211 Kenner St.

Phone 1: 314-703-6365 Phone 2: 314-704-4697

Dog Issues? __ **Year Built:** 2005

Occupant Contact Info (if not owner-occupied):

Name(s): Brenda Yetterbrock

Number of Residents: 2 ____ **Number of Children:** 0

Physical Description of House/Property:

small hse/part brick/tan carport

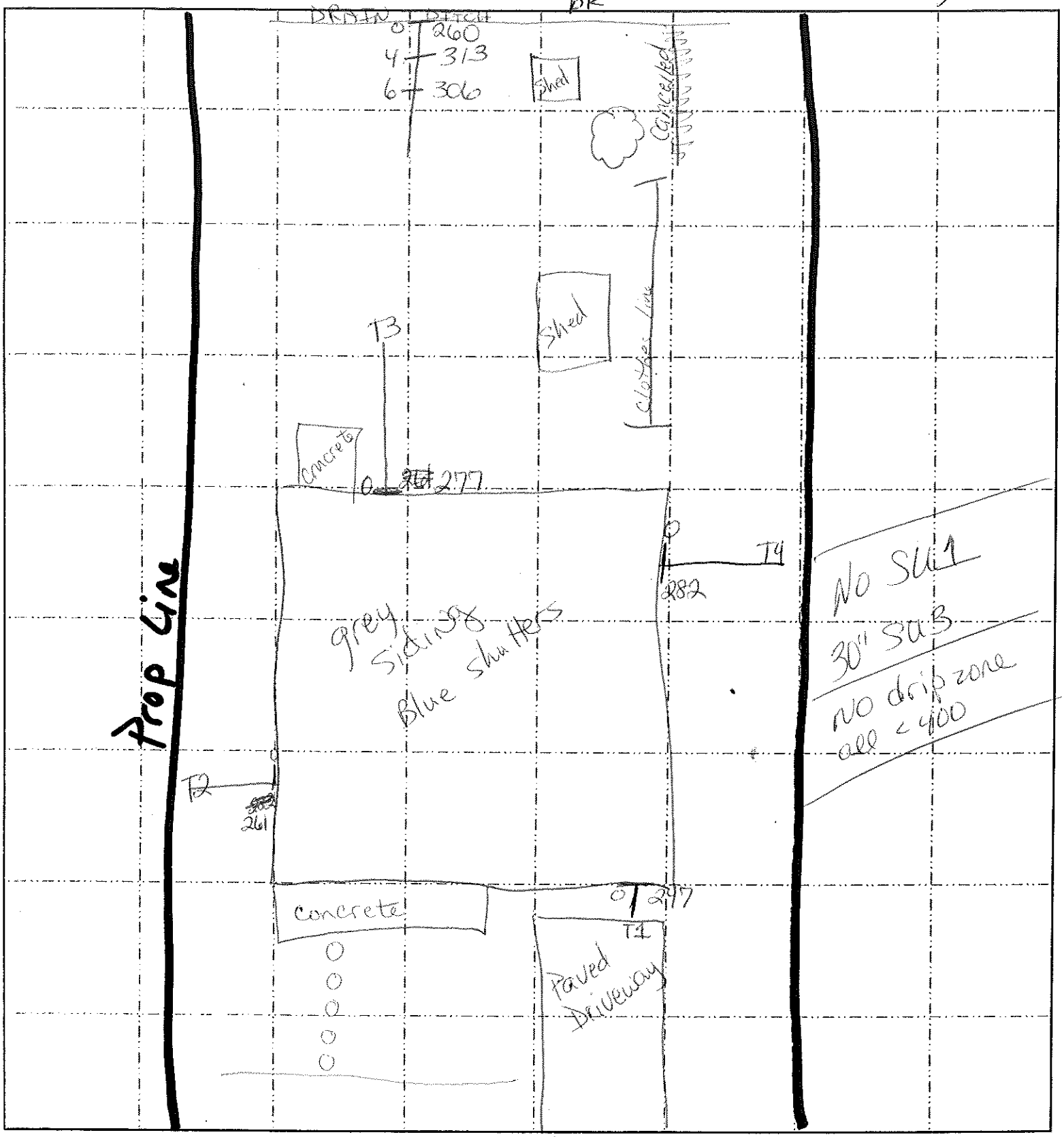
Comments:

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 109 DK STREET: Kenner St. (?)

N



XRF SerNum(s)_____ Date Screened/Sampled 4-11-12

Team Member(s): Shelly

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 109

Owner Contact Information:

Owner: Gebhardt Larry L

Physical Address of Property Sampled: 1213 Kenner St.

mail results to

Phone 1: 314-420-3653 Phone 2: _____

Dog Issues? no **Year Built:** 1950

Occupant Contact Info (if not owner-occupied):

Name(s): Neil Elliott

13188 St. Rd CC
Festus MO 63028

Number of Residents: 1 **Number of Children:** 0

Physical Description of House/Property:

none grey house, 2 white rocking chairs on porch, paved driveway

Comments:

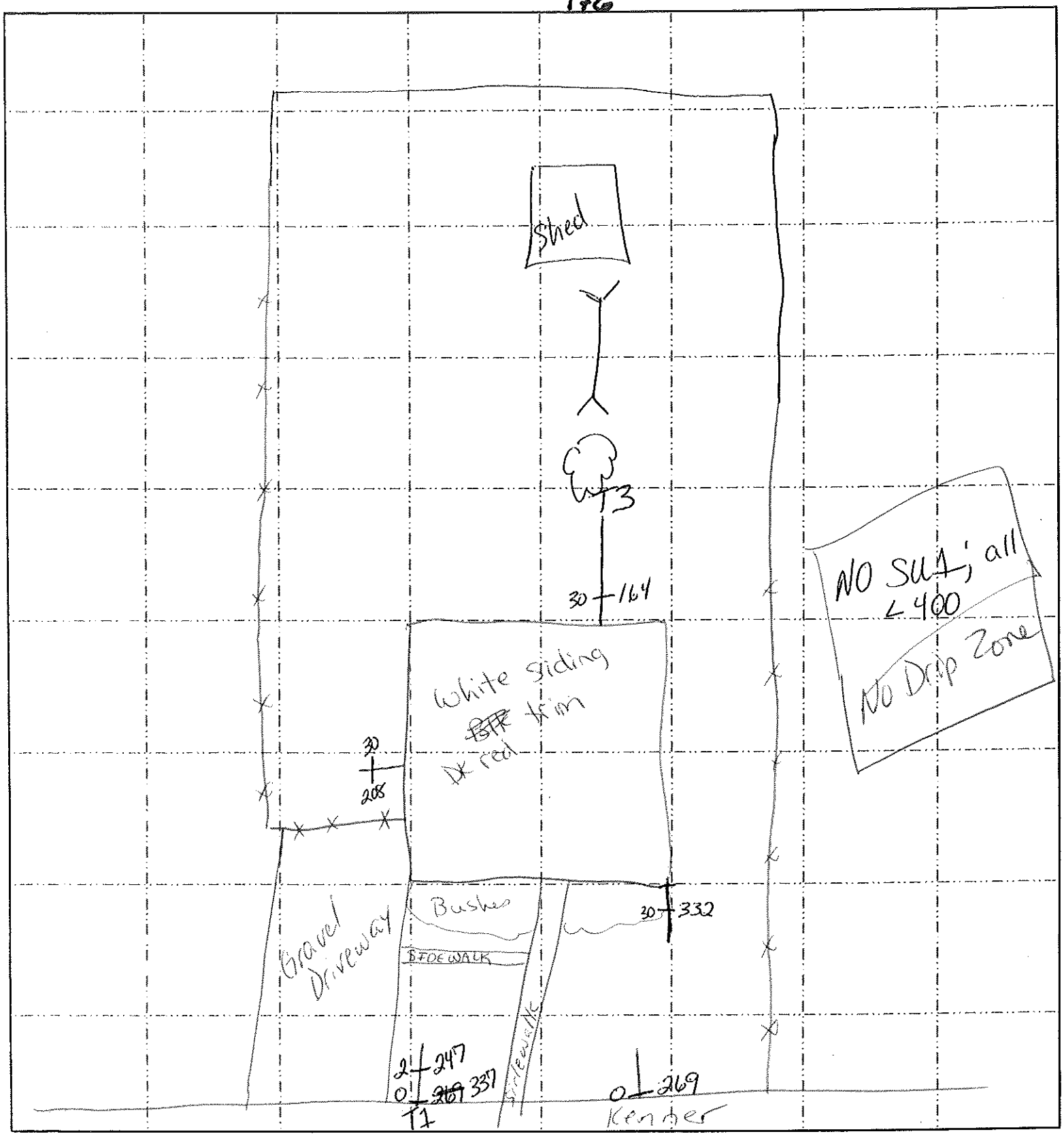
owner would like to be present House is between 1211 & 1215 Kenner.

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: ~~175~~ 176 STREET: 1023 Kenner St.

N



XRF SerNum(s)_____ Date Screened/Sampled 4-11-12

Team Member(s):_____

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: ~~175~~ 176

Owner Contact Information:

Owner: Leathers Nathan

Physical Address of Property Sampled: 1023 Kenner St.

Phone 1: 314-795-3634 Phone 2: _____

Dog Issues? no **Year Built:** 1951

Occupant Contact Info (if not owner-occupied):

Name(s): Nathan Leathers

Number of Residents: 2 **Number of Children:** 1

Physical Description of House/Property:

one story ranch

Comments:

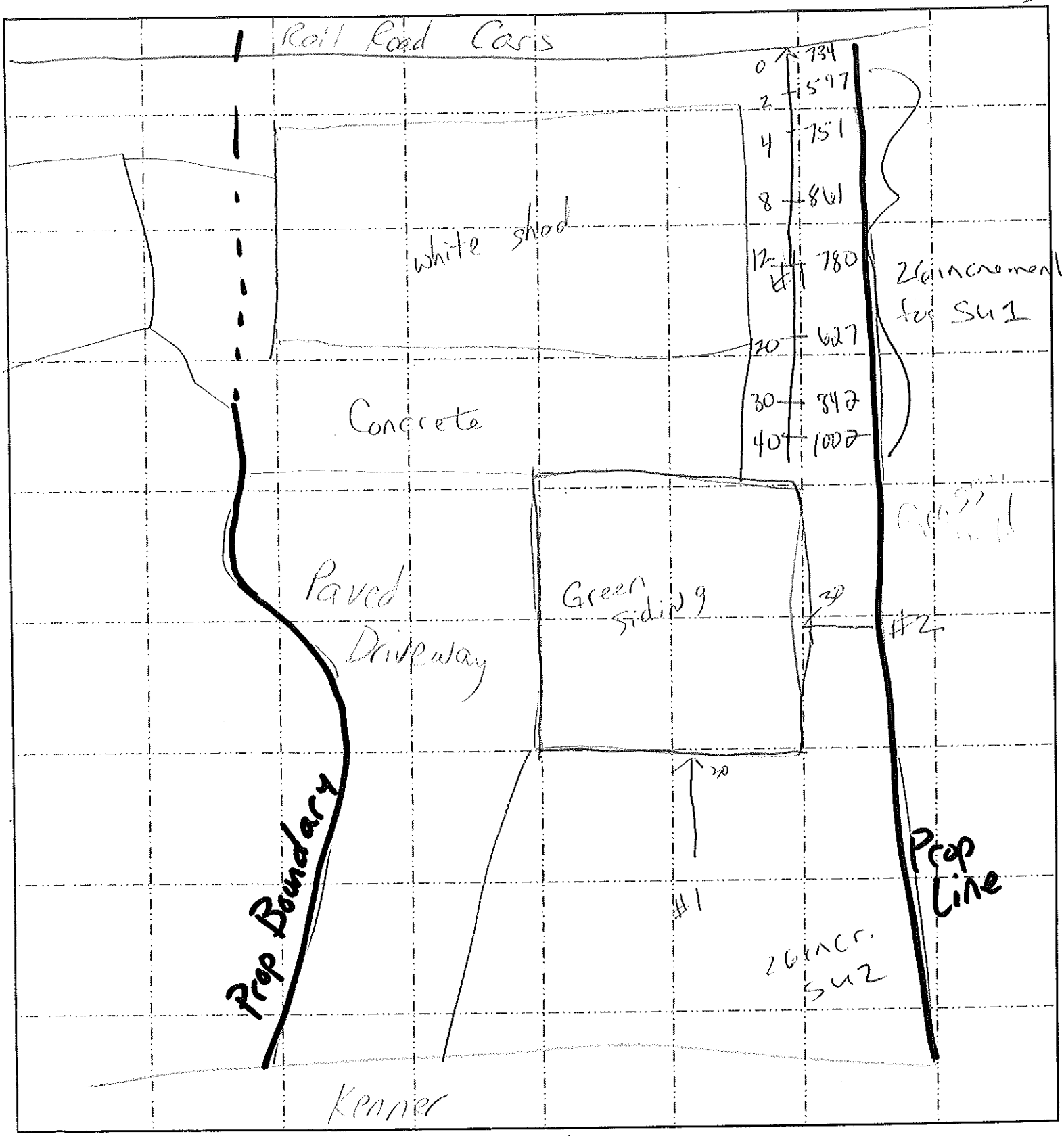
Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 120 STREET: [redacted] 1305 Kenner St.

@ end

N



XRF SerNum(s)_____ Date Screened/Sampled 4-11-12

Team Member(s):_____

Sketch by Shelly

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 120

Owner Contact Information:

Owner: Rudloff Genrich L

Physical Address of Property Sampled: [redacted] 1305 Kenner St.

Phone 1: 314-550-0260 Phone 2: _____

Dog Issues? no **Year Built:** 1974

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: _____ _____ **Number of Children:**

Physical Description of House/Property:

Comments:

wants to be present for sampling

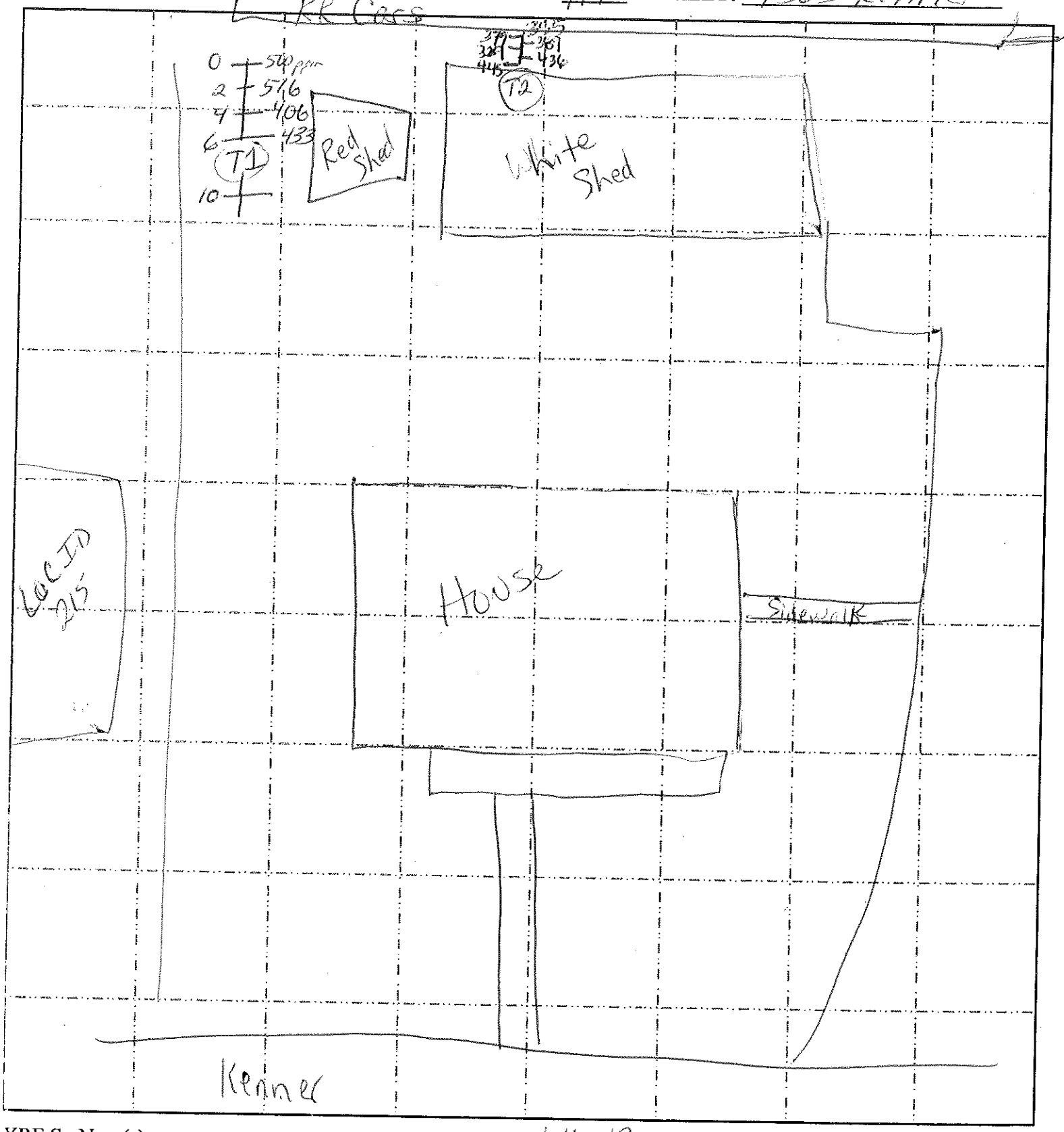
Rental, by a Turkish man
green siding at end of Kenner

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 119 **STREET:** 1303 Kenner

N



XRF SerNum(s)_____ Date Screened/Sampled 4-11-12

Team Member(s): SJ VW MS PE KH, SC Maria + Joe SLRO

Sketch by Shelly

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 119

Owner Contact Information:

Owner: Rudloff Genrick L

Physical Address of Property Sampled: _____

Phone 1: _____ Phone 2: _____

Dog Issues? _____ **Year Built:**

Occupant Contact Info (if not owner-occupied):

Name(s): _____

Number of Residents: _____ ____ **Number of Children:** _____

Physical Description of House/Property:

Comments:

~~Rental~~ ~~prop~~ mother of owner lives here
Brick

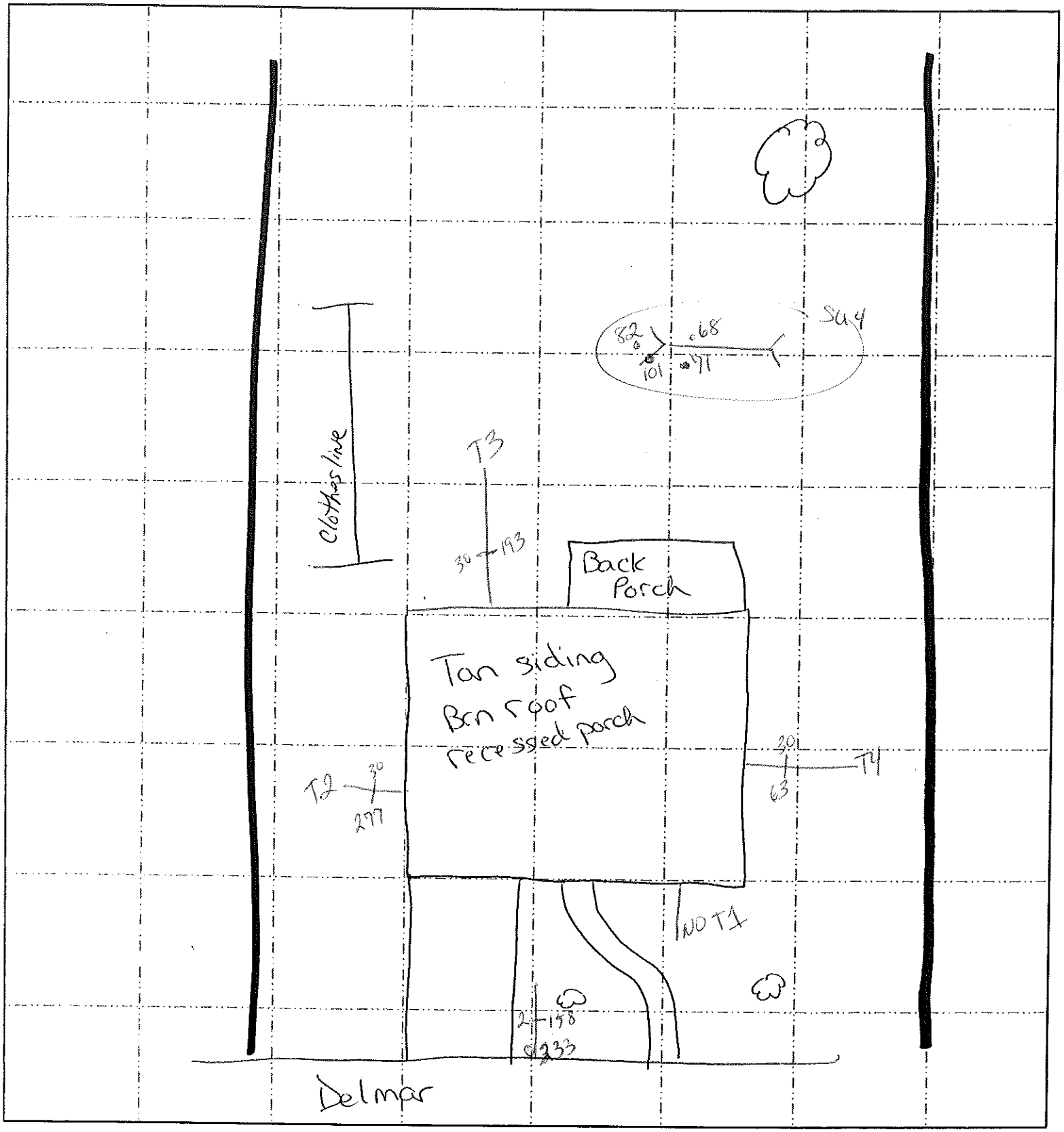
Day across street left early Apr 2012

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 158 STREET: 806 Delmar Ave

N



XRF SerNum(s)_____ Date Screened/Sampled 4-12-12

Team Member(s): SJ VW PE MS KH SC

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 158

Owner Contact Information:

Owner: Roland Richard Jr & Julie

Physical Address of Property Sampled: 806 Delmar Ave

Phone 1: 636-208-1186 Phone 2: _____

Dog Issues? no **Year Built:** 1950

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 7 **Number of Children:** 2

Physical Description of House/Property:

brown roof, beige siding

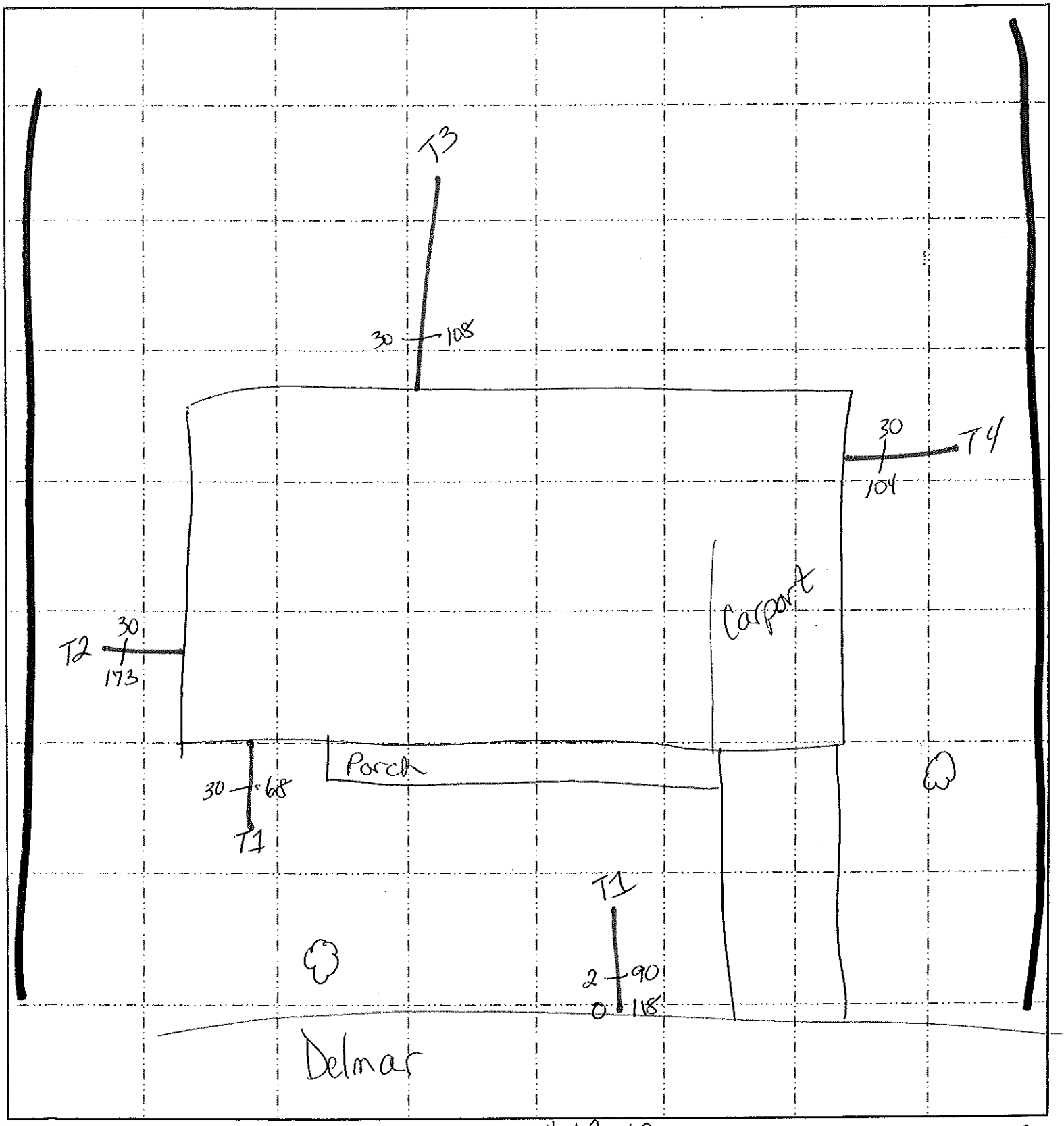
Comments:

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 179 STREET: 714 Delmar Ave

N



XRF SerNum(s)_____ Date Screened/Sampled 4-12-12

SLS

Team Member(s): SJ PE VW MS
KH SC
T

*DO A wipe HERE

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 179

Owner Contact Information:

Owner: Whitehead Bernice

Physical Address of Property Sampled: 714 Delmar Ave

Phone 1: 937-7991 Phone 2: _____

Dog Issues? no **Year Built:** 1965

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 2 **Number of Children:** 0

Physical Description of House/Property:

3 bedroom/unfinished basement on 1 lot

Comments:

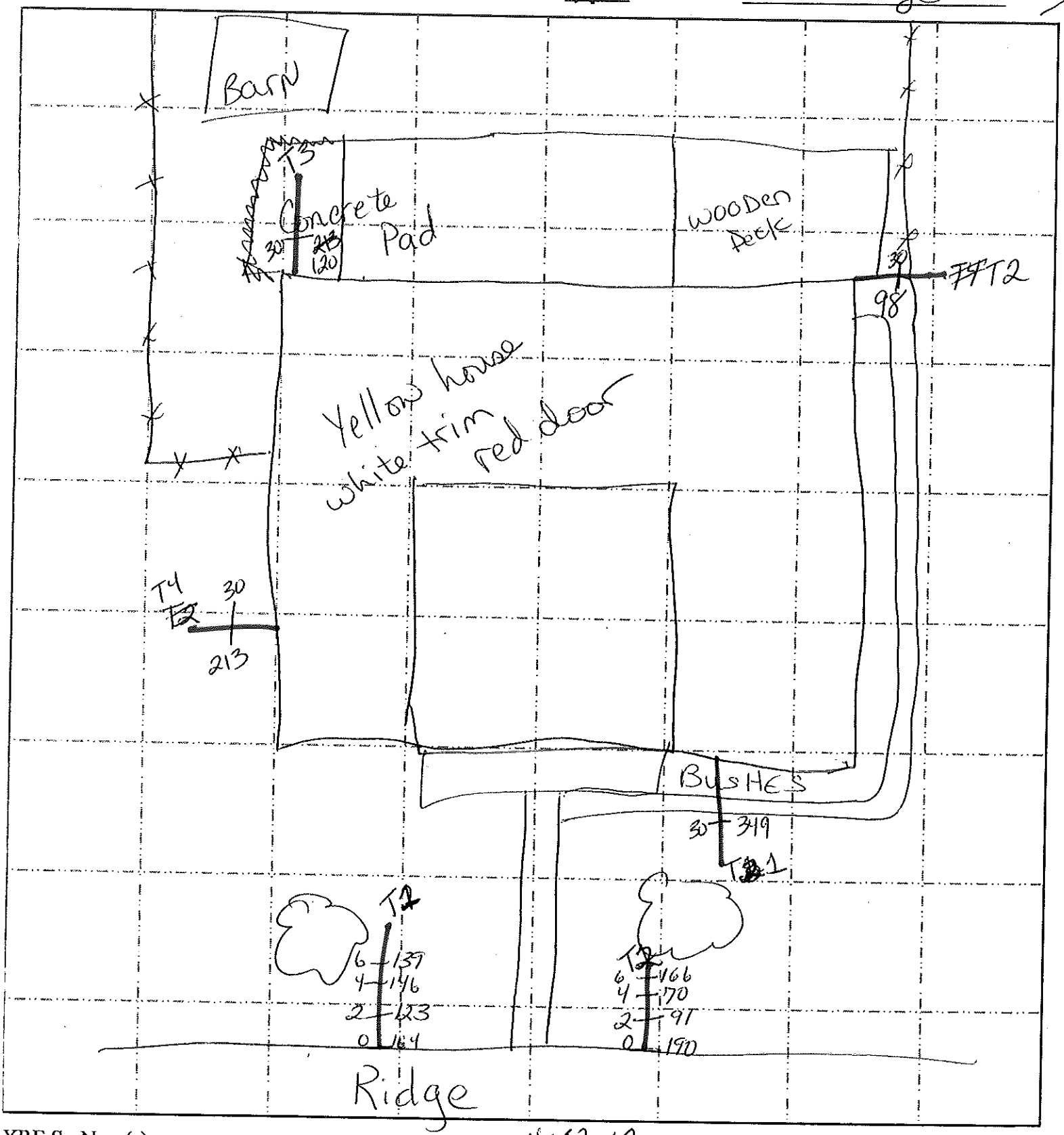
Collected a wipe sample here on table + window sill.

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 218 **STREET:** 721 Ridge

N →



XRF SerNum(s)_____ Date Screened/Sampled 4-12-12

Team Member(s):_____

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #:_____

Owner Contact Information:

Owner: Toby Miller

Physical Address of Property Sampled: 721 Ridge

Phone 1: _____ Phone 2: _____

Dog Issues? _____ **Year Built:** early 1900's

Occupant Contact Info (if not owner-occupied):

Name(s):_____

Number of Residents: 2 **Number of Children:** 0

Physical Description of House/Property:

Comments:

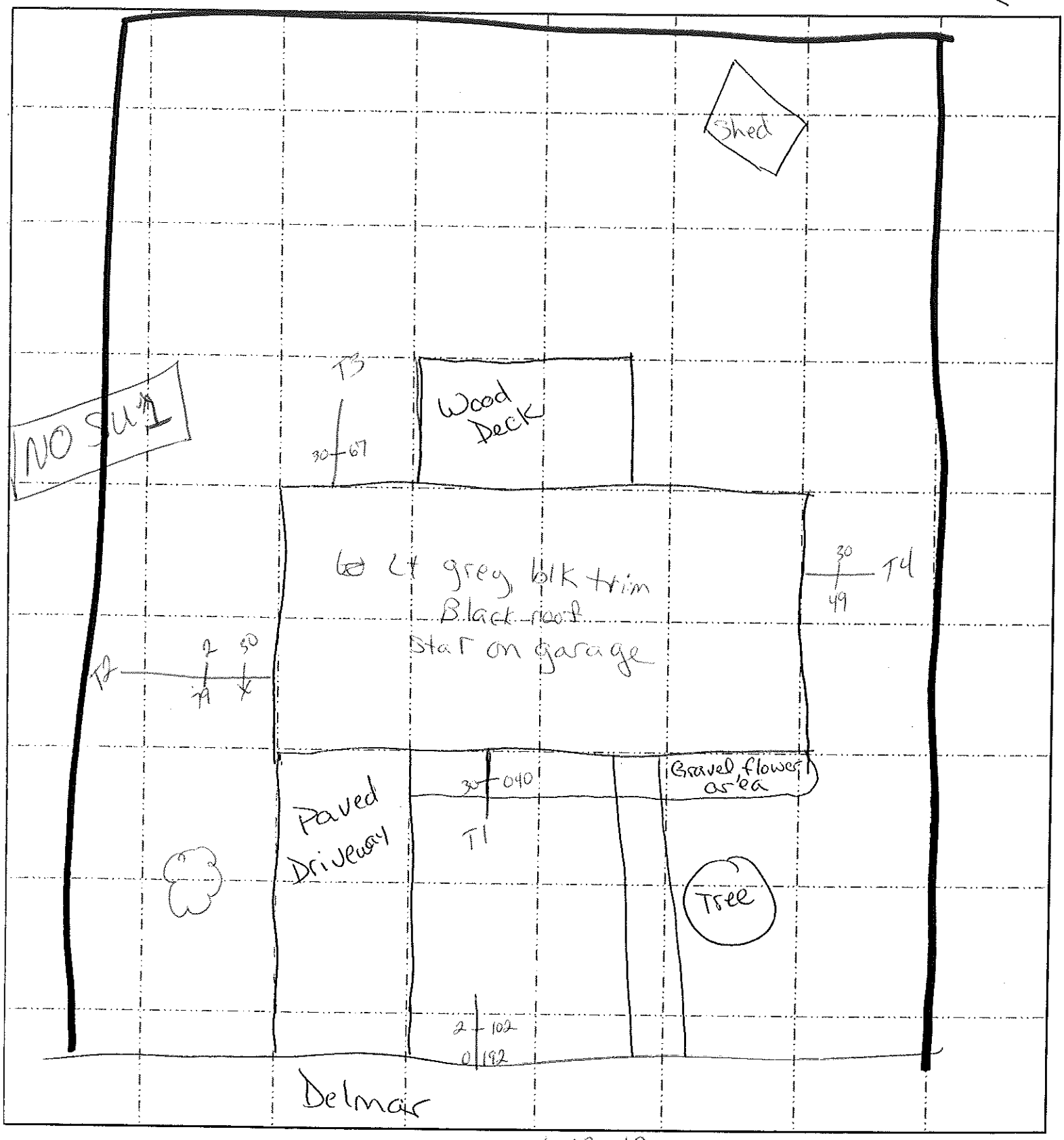
Dust wipe sample collected.

Permission to Sample Granted Verbally By: Ms. Miller. **On (date):** 4-12-12

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 157 STREET: 808 Delmar Ave

N



XRF SerNum(s)_____ Date Screened/Sampled 4-12-12

Team Member(s):_____

SLJ

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 157

Owner Contact Information:

Owner: Waites Rebecca L

Physical Address of Property Sampled: 808 Delmar Ave

Phone 1: 314-914-0021 Phone 2: _____

Dog Issues? no-inside **Year Built:** 1965

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: _____ _____ **Number of Children:**

Physical Description of House/Property:

2 story, 1 car garage

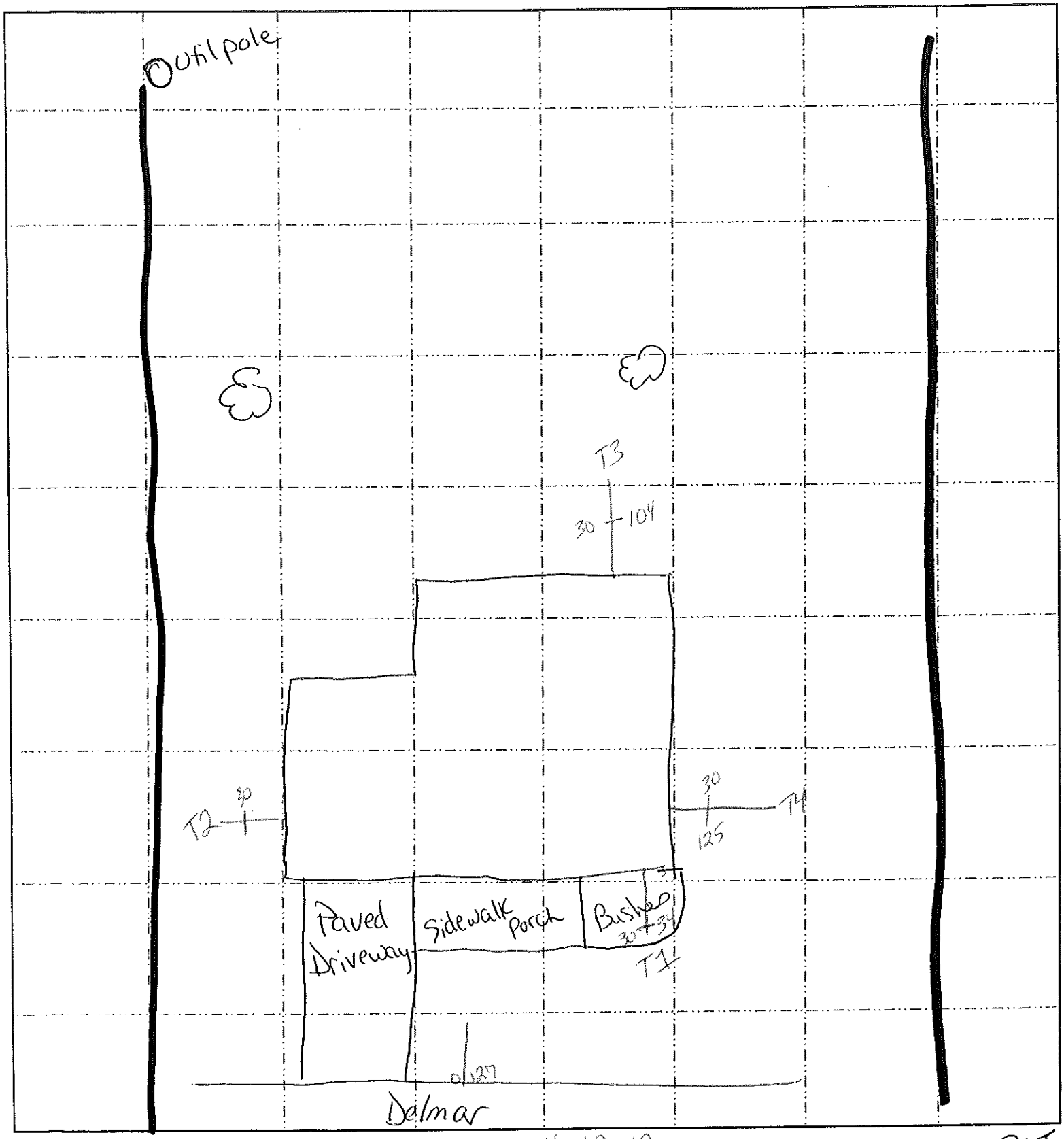
Comments:

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 180 STREET: 802 Delmar Ave

N



XRF SerNum(s)_____ Date Screened/Sampled 4-12-12

Team Member(s):_____

SLS

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 180

Owner Contact Information:

Owner: Greenlee

Physical Address of Property Sampled: 802 Delmar Ave

Phone 1: 314-677-0373 Phone 2: _____

Dog Issues? __ **Year Built:** 1967

Occupant Contact Info (if not owner-occupied):

Name(s): Timothy & Jessica Greenlee, Jr.

Number of Residents: 2 ____ **Number of Children:** 1(fetus)

Physical Description of House/Property:

Comments:

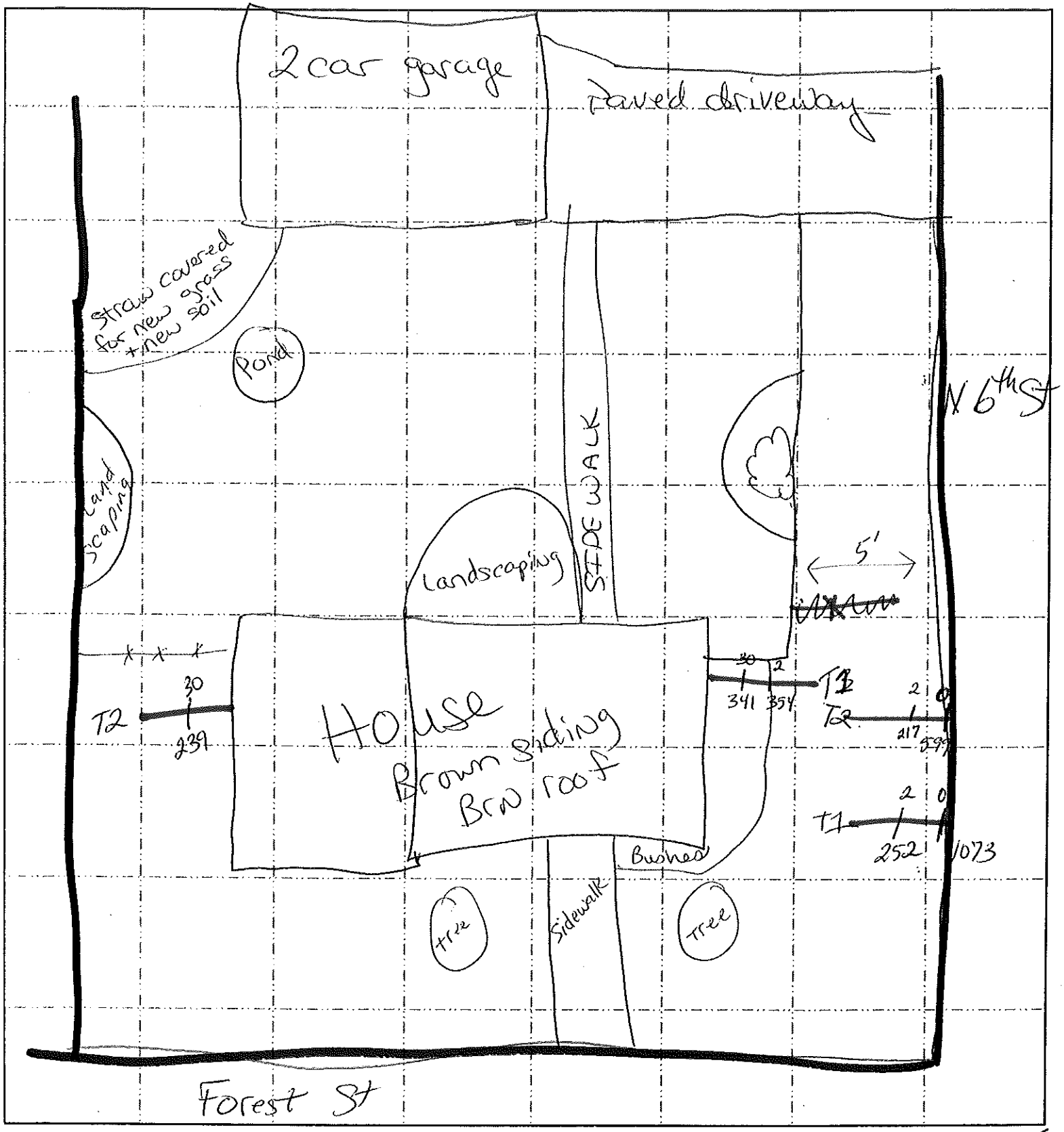
Owner lives in NC, son lives in house. Daugherin-law is pregnant.

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 159 STREET: 523 Forrest St

N



XRF SerNum(s)_____ Date Screened/Sampled 4-12-12

Team Member(s):_____

SLS

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 159

Owner Contact Information:

Owner: Forir Peggy J

Physical Address of Property Sampled: 523 Forrest St

Phone 1: 636-937-7844 Phone 2: _____

Dog Issues? yes **Year Built:** 1950

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 3 **Number of Children:** 0

Physical Description of House/Property:

brown/detached garage/corner Forrest & N 6th

Comments:

2 dogs inside back yard fence

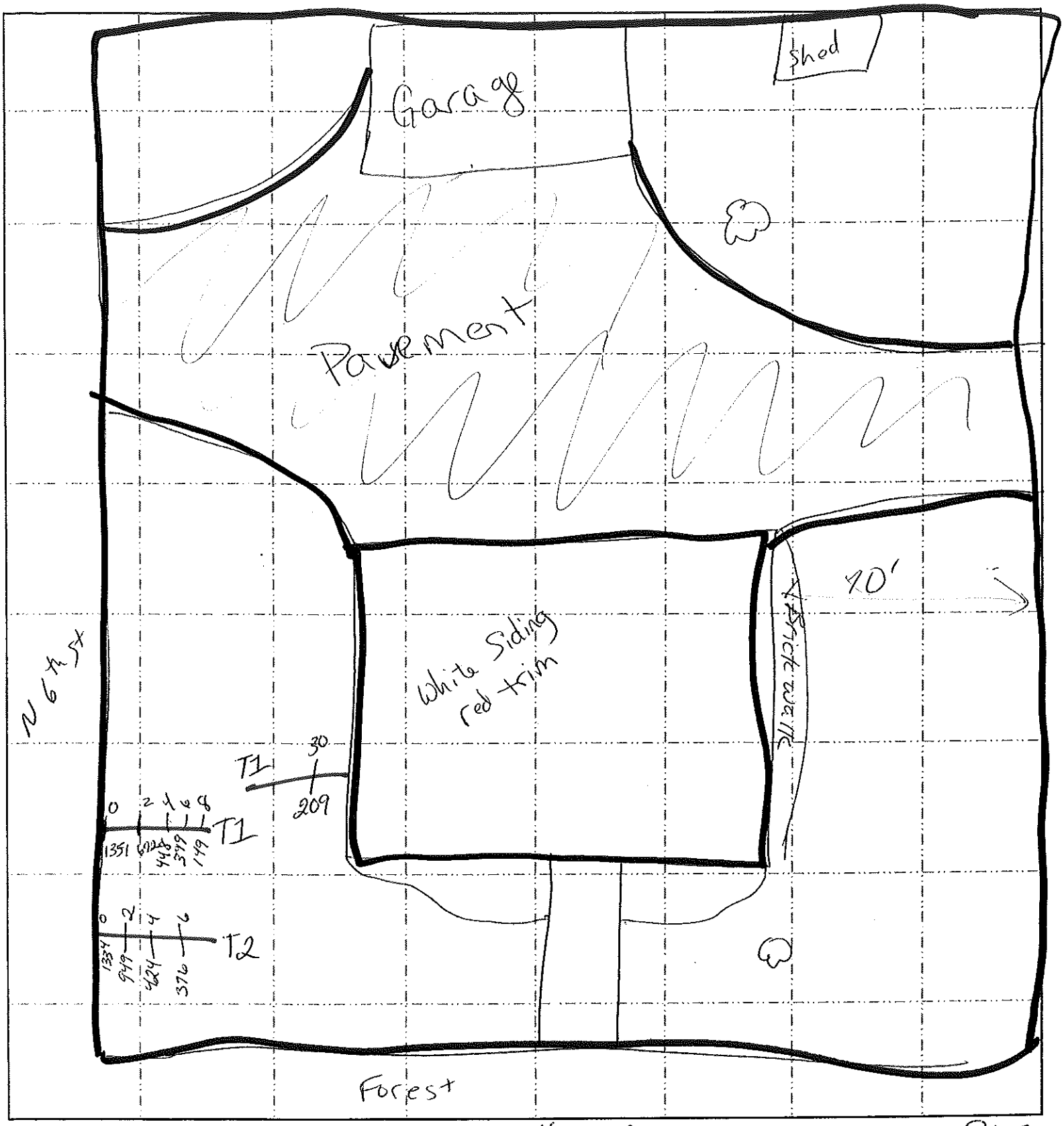
50 trucks/day
Start at 5:30Am
Vibrating soil from walls of her cellar

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 160 STREET: 524 Forrest St

N



XRF SerNum(s)_____ Date Screened/Sampled 4-12-12

Team Member(s):_____

SLS

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 160

Owner Contact Information:

Owner: Forsee James F & Judy

Physical Address of Property Sampled: 524 Forrest St

Phone 1: 636-208-8564 Phone 2: _____

Dog Issues? no **Year Built:** 1942

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 2 **Number of Children:** 0

Physical Description of House/Property:

1 1/2 Story w/siding

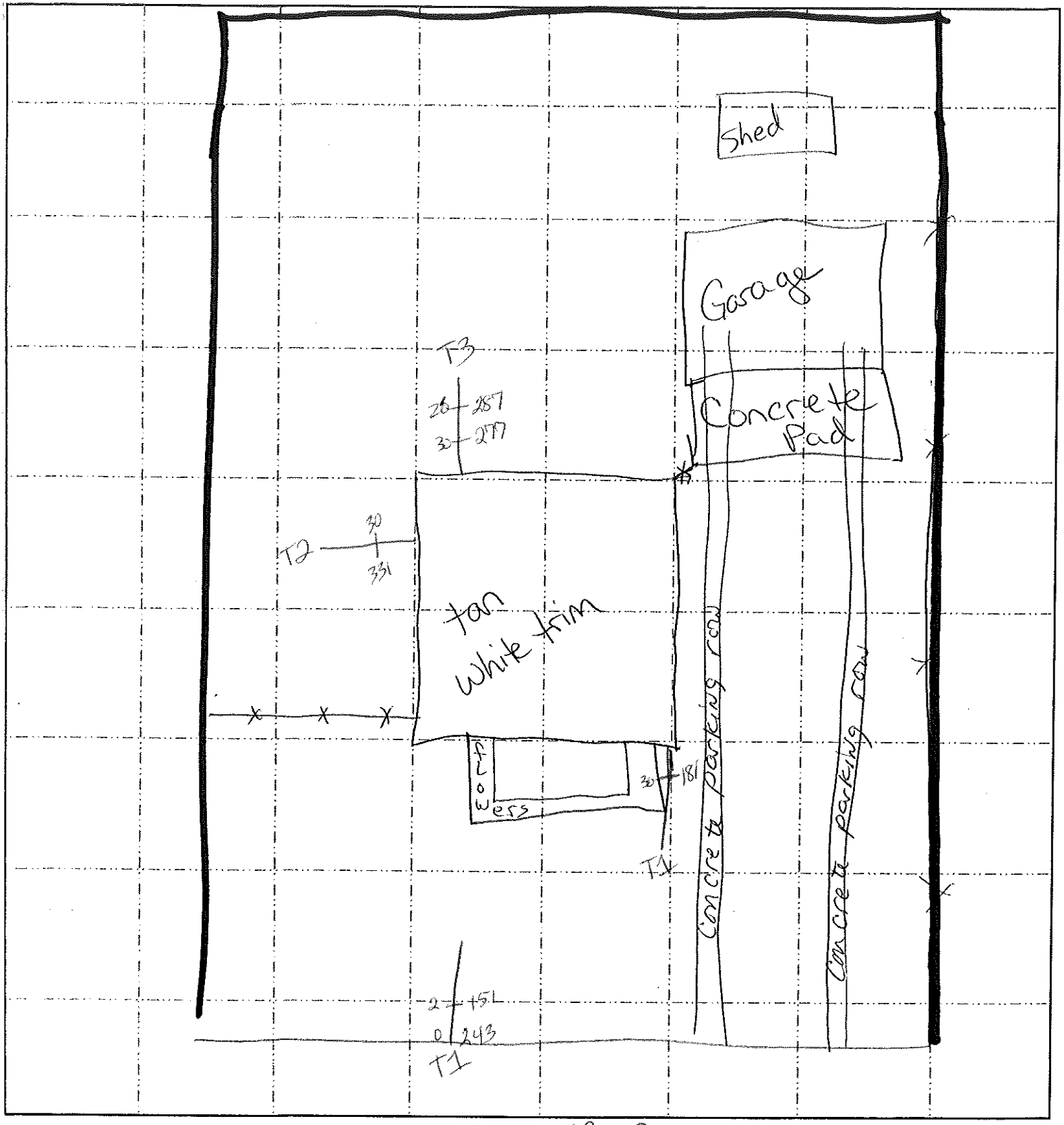
Comments:

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 175 STREET: 811 Delmar Ave

N



XRF SerNum(s)_____ Date Screened/Sampled 4-12-12

Team Member(s):_____

SLS

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 175

Owner Contact Information:

Owner: Schilly Melissa R

Physical Address of Property Sampled: 811 Delmar Ave

Phone 1: 314-401-4032 Phone 2: _____

Dog Issues? no **Year Built:** 1935

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 1 **Number of Children:** 0

Physical Description of House/Property:

tan siding w/concrete flowerbed in front

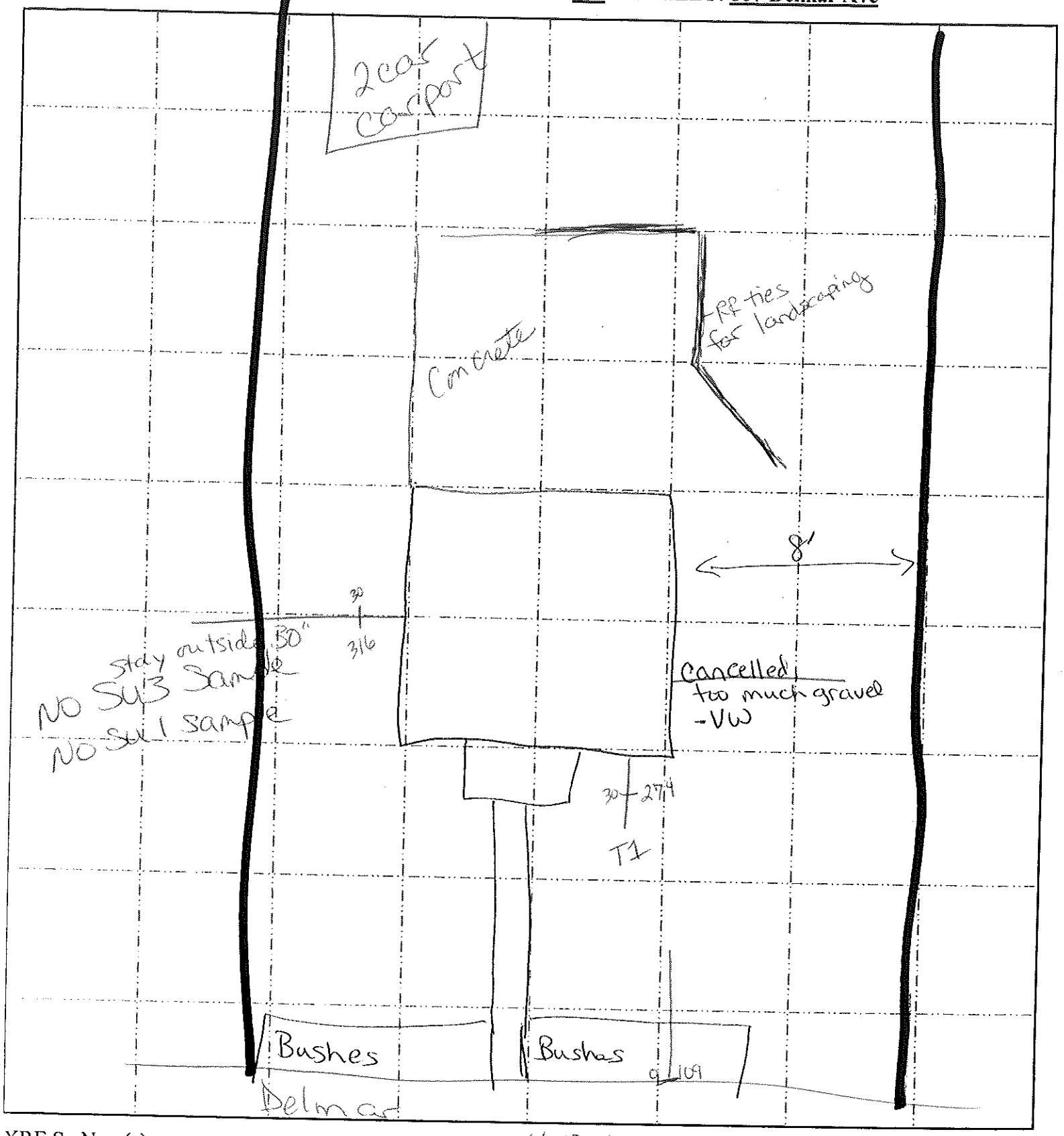
Comments:

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 164 STREET: 807 Delmar Ave

N



XRF SerNum(s)_____ Date Screened/Sampled 4-12-12

Team Member(s):_____

SLS

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 164

Owner Contact Information:

Owner: Backof Daniel J

Physical Address of Property Sampled: 807 Delmar Ave

Phone 1: 636-208-1605 Phone 2: _____

Dog Issues? no **Year Built:** 1935

Occupant Contact Info (if not owner-occupied):

Name(s): Daniel Backof

Number of Residents: 1 **Number of Children:** 0

Physical Description of House/Property:

?

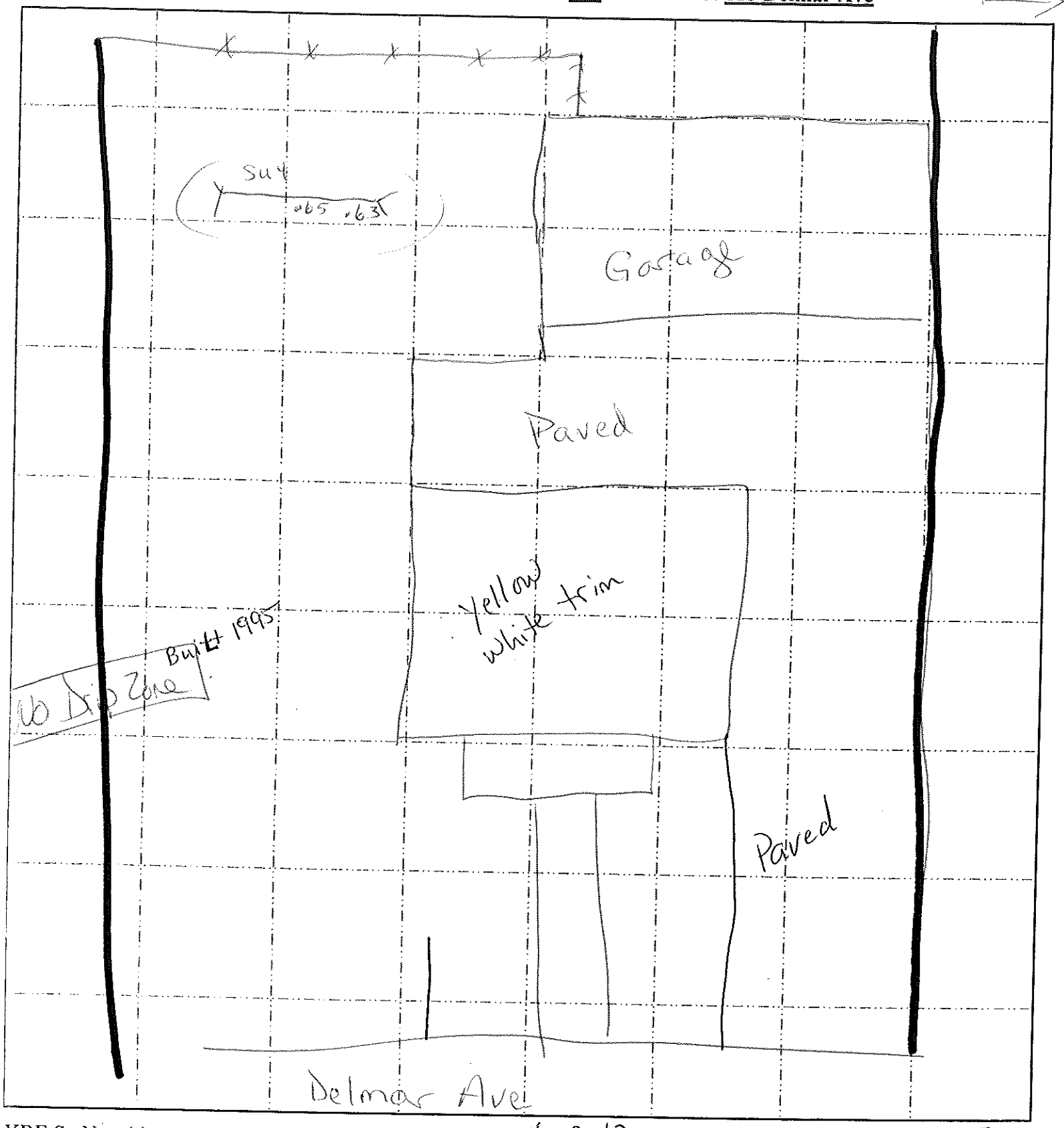
Comments:

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 161 STREET: 815 Delmar Ave

N



XRF SerNum(s)_____ Date Screened/Sampled 4-12-12

Team Member(s):_____

SLS

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 161

Owner Contact Information:

Owner: Boyd Kenneth F & J Louise

Physical Address of Property Sampled: 815 Delmar Ave

Phone 1: 314-568-7536 Phone 2: 314-620-5834

Dog Issues? no **Year Built:** 1992

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: _____ _____ **Number of Children:**

Physical Description of House/Property:

Comments:

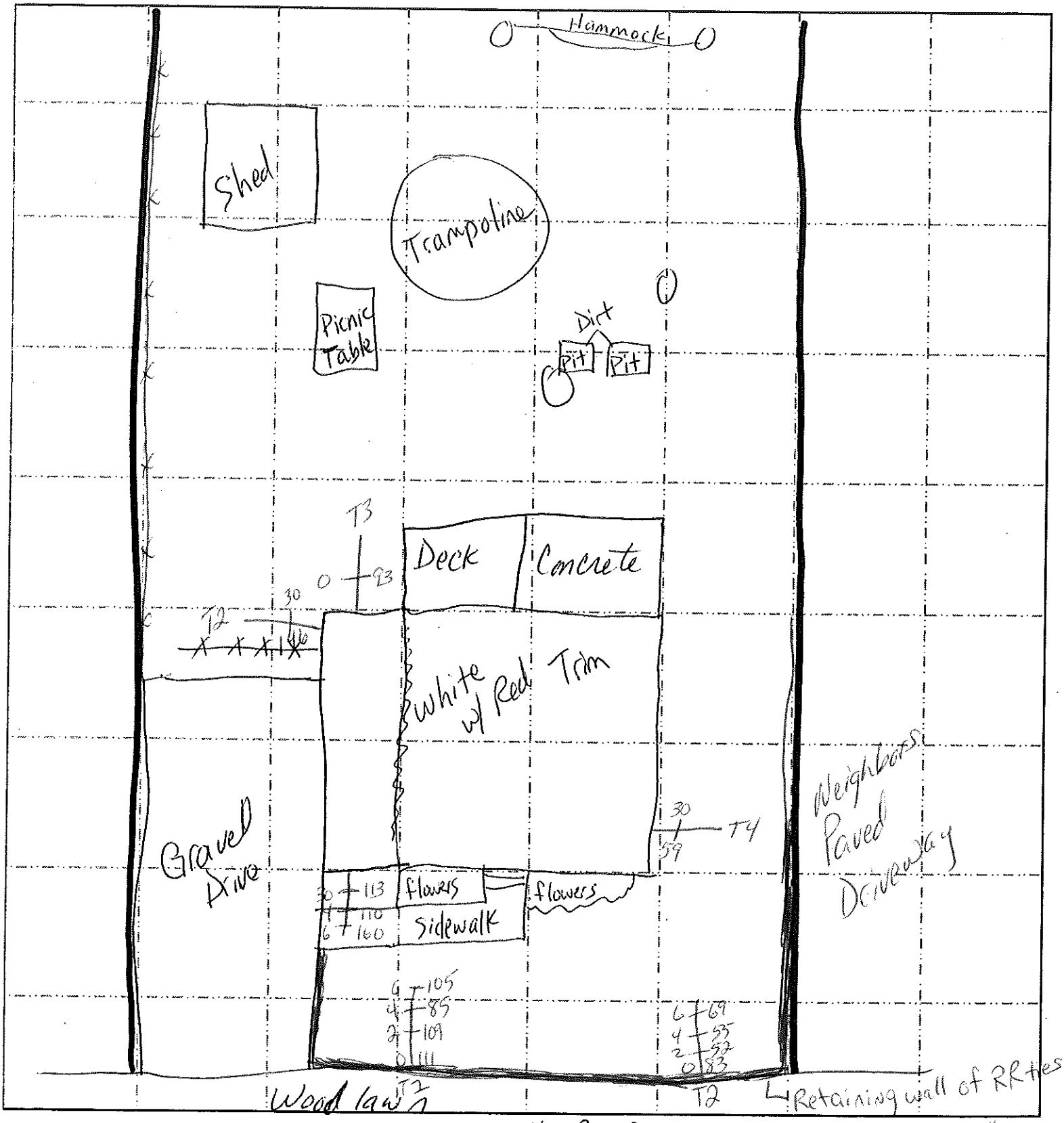
Brought in clean fill for front + back yard
No kids, but grand kids come over. Swing set is moved around yard.

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 221 **STREET:** 721 woodland ave

N



XRF SerNum(s)_____ Date Screened/Sampled 4-12-12

Team Member(s):_____

Shelly

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #:_____

Owner Contact Information:

Owner: Christina Brown

Physical Address of Property Sampled: 721 Woodland Ave. Festus, MO

Phone 1: (314) 471-5712 Phone 2: _____

Dog Issues? NO **Year Built:** ~ 86 years old

Occupant Contact Info (if not owner-occupied):

Name(s): Christina Brown

Number of Residents: 4 **Number of Children:** 3

Physical Description of House/Property:

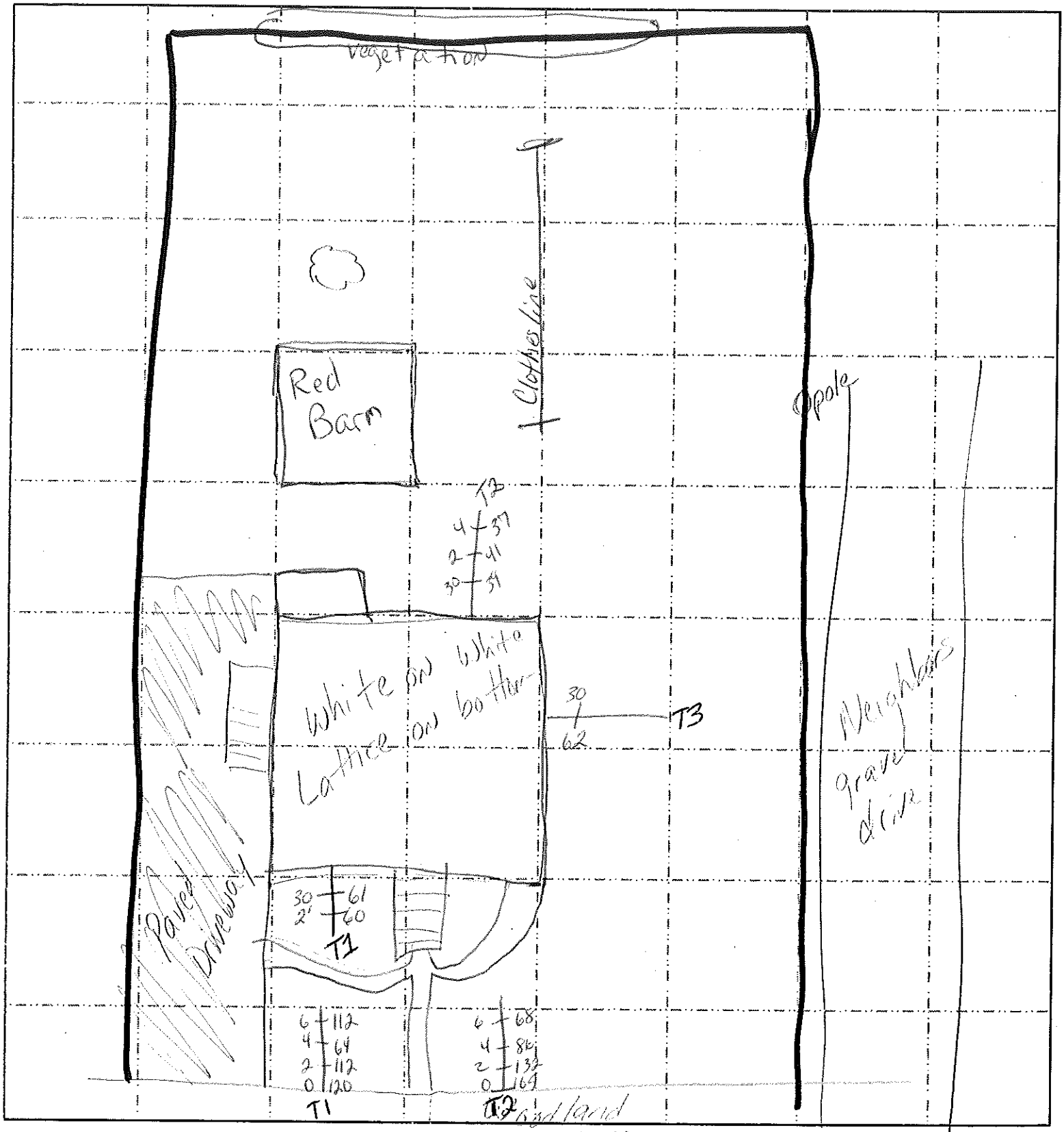
Comments:

Permission to Sample Granted Verbally By: Christina Brown **On (date):** 4/10/12

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 222 **STREET:** 725 Woodland Ave

N



XRF SerNum(s)_____ Date Screened/Sampled 4-12-12

Team Member(s):_____

Shelly

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #:_____

Owner Contact Information:

Owner: Donald Labuary Donald

Physical Address of Property Sampled: 725 Woodland Ave, Festus

Phone 1: (636) 937-6486 Phone 2: _____

Dog Issues? NO **Year Built:** ~1946

Occupant Contact Info (if not owner-occupied):

Name(s): Same as above

Number of Residents: 2 **Number of Children:** NO

Physical Description of House/Property:

Comments:

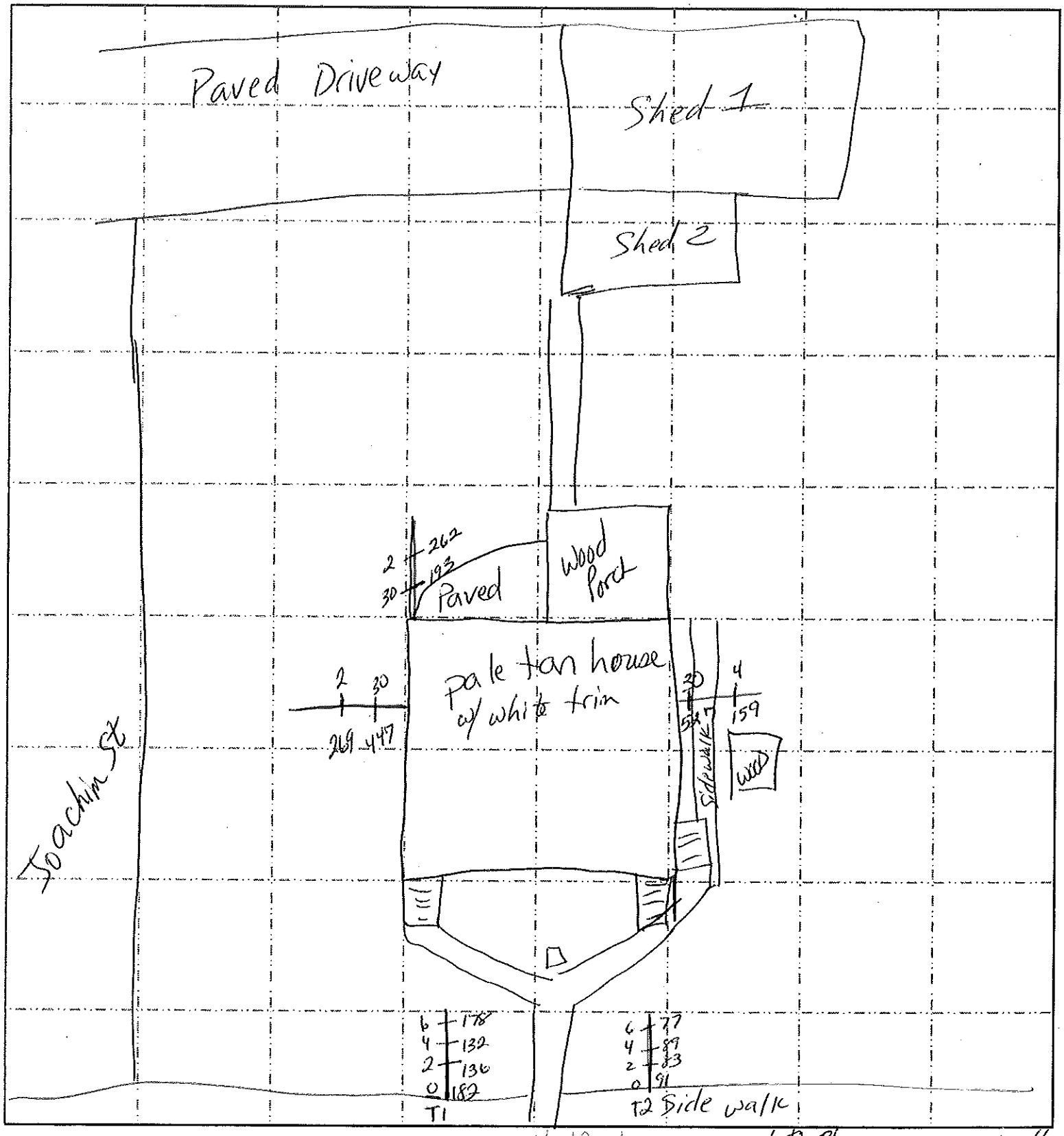
Permission to Sample Granted Verbally By: Donald Labuary **On (date):** 4/10/12

Donald Labuary

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 224 **STREET:** 623 N. 6th St.

N



XRF SerNum(s)_____ Date Screened/Sampled 4-12-12

Team Member(s): SS VW MS PE
KH SC, ESP
ST, SLRO

Shelly

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 224

Owner Contact Information:

Owner: Matthew Davis

Physical Address of Property Sampled: 623 N. 6th Street

Phone 1: (314) 750-7657 Phone 2: _____

Dog Issues? No **Year Built:** ~ 80 years old

Occupant Contact Info (if not owner-occupied):

Name(s): Same as above

Number of Residents: 3 **Number of Children:** —

Physical Description of House/Property:

Comments:

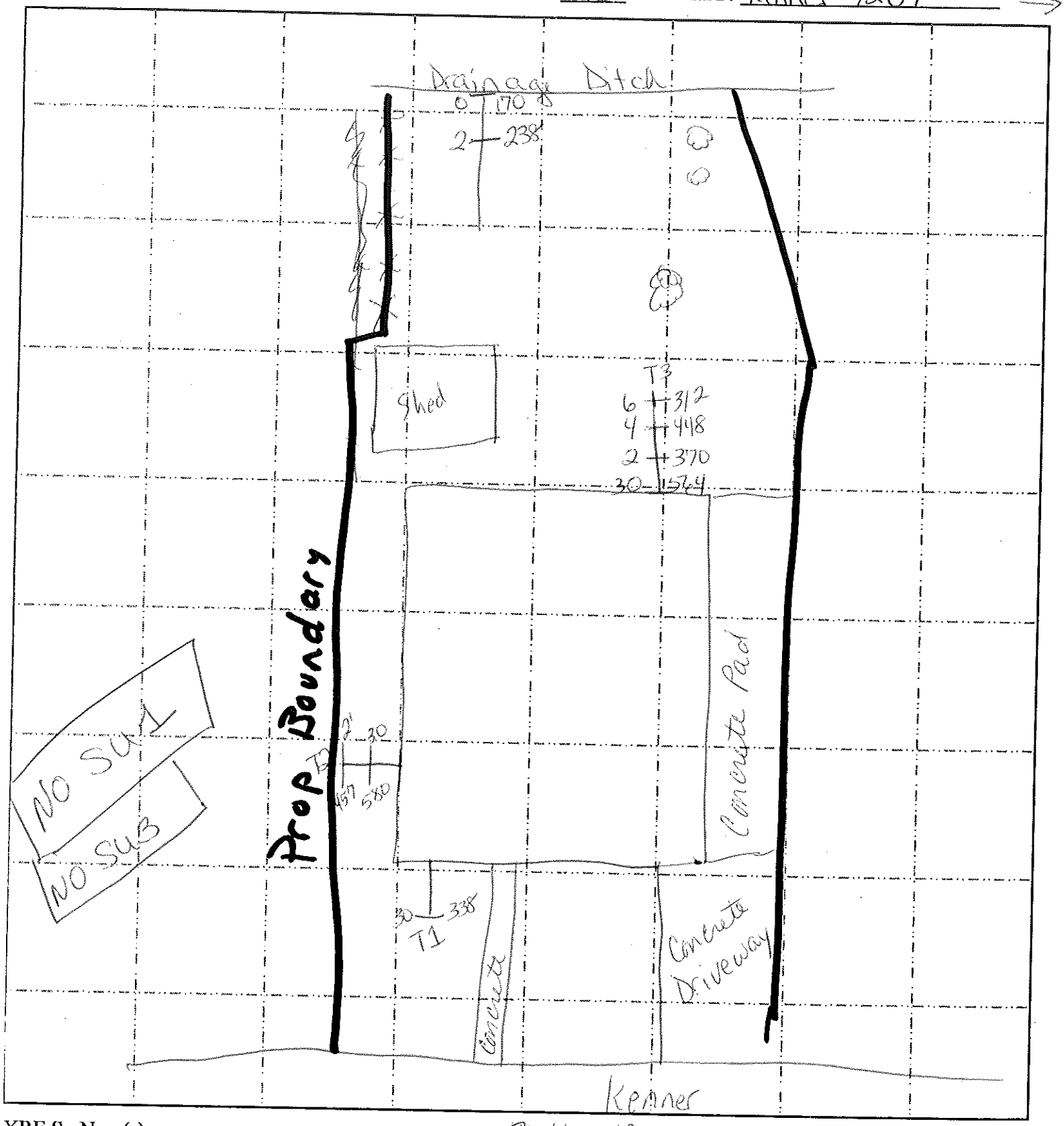
3-plex house

Permission to Sample Granted Verbally By: Matthew Davis **On (date):** 4/10/12

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 216 **STREET:** Kenner 1209

N →



XRF SerNum(s)_____ Date Screened/Sampled PA 4-11-12

Team Member(s):_____

sketch by Shelly

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 216

Owner Contact Information:

Owner: Daniel Worch

Physical Address of Property Sampled: 1209

Phone 1: 636 209 7527 Phone 2: _____

Dog Issues? _____ **Year Built:** ~1950

Occupant Contact Info (if not owner-occupied):

Name(s): _____

Number of Residents: 2 ____ **Number of Children:** 3 under 6

Physical Description of House/Property:

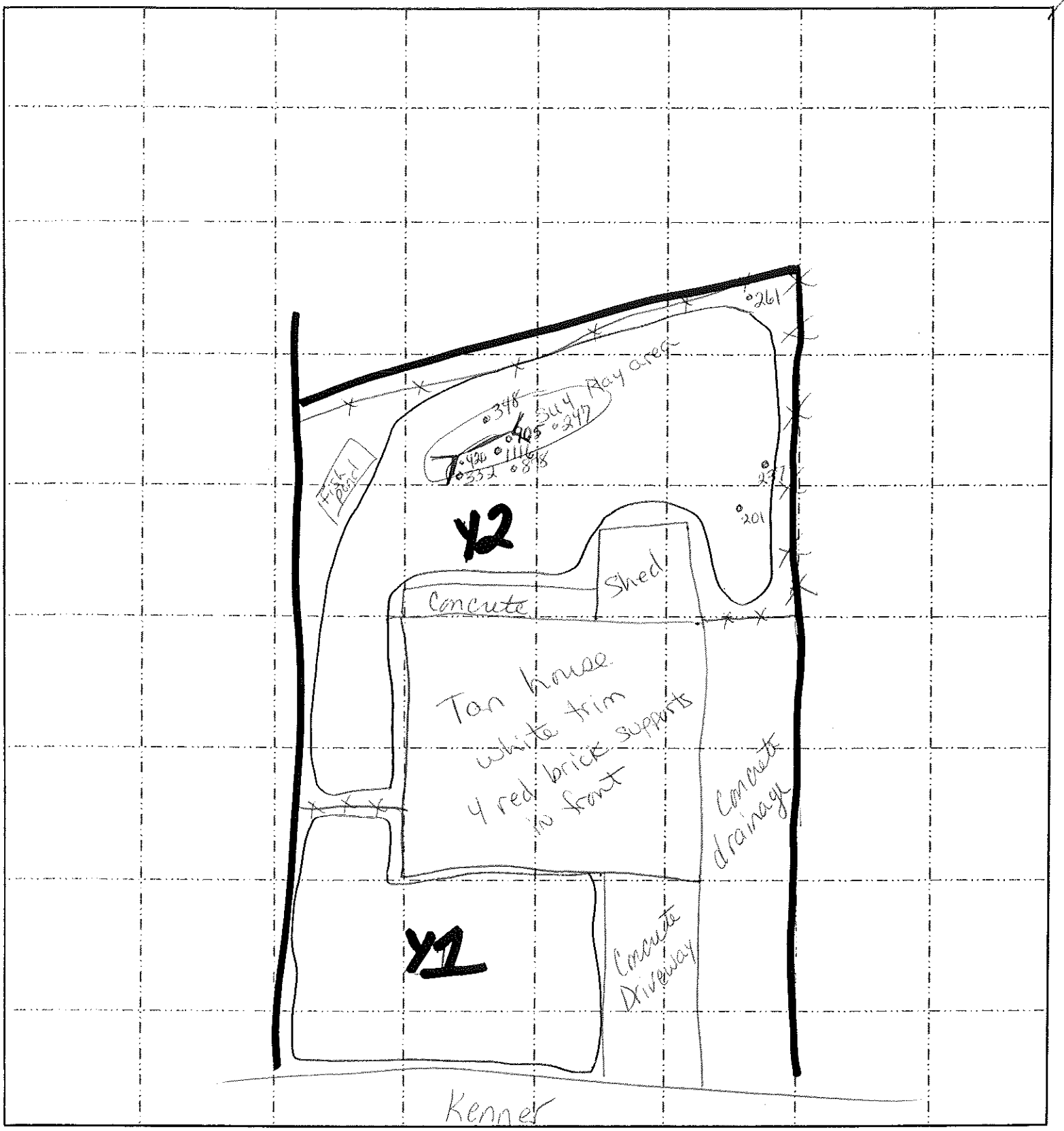
Comments:

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 124 STREET: 1207 Kenner St.

N



XRF SerNum(s)_____ Date Screened/Sampled 4-11-12

Team Member(s):_____

Sketch by Shelly

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 124

Owner Contact Information:

Owner: Suter A. Walt & Bonnie

Physical Address of Property Sampled: 1207 Kenner St.

Phone 1: 314-541-8228 Phone 2: _____

Dog Issues? no **Year Built:** 1947

Occupant Contact Info (if not owner-occupied):

Name(s): Jason & Crystal Patterson

Number of Residents: 4 **Number of Children:** 2

Physical Description of House/Property:

lite brown (tan) vinyl siding

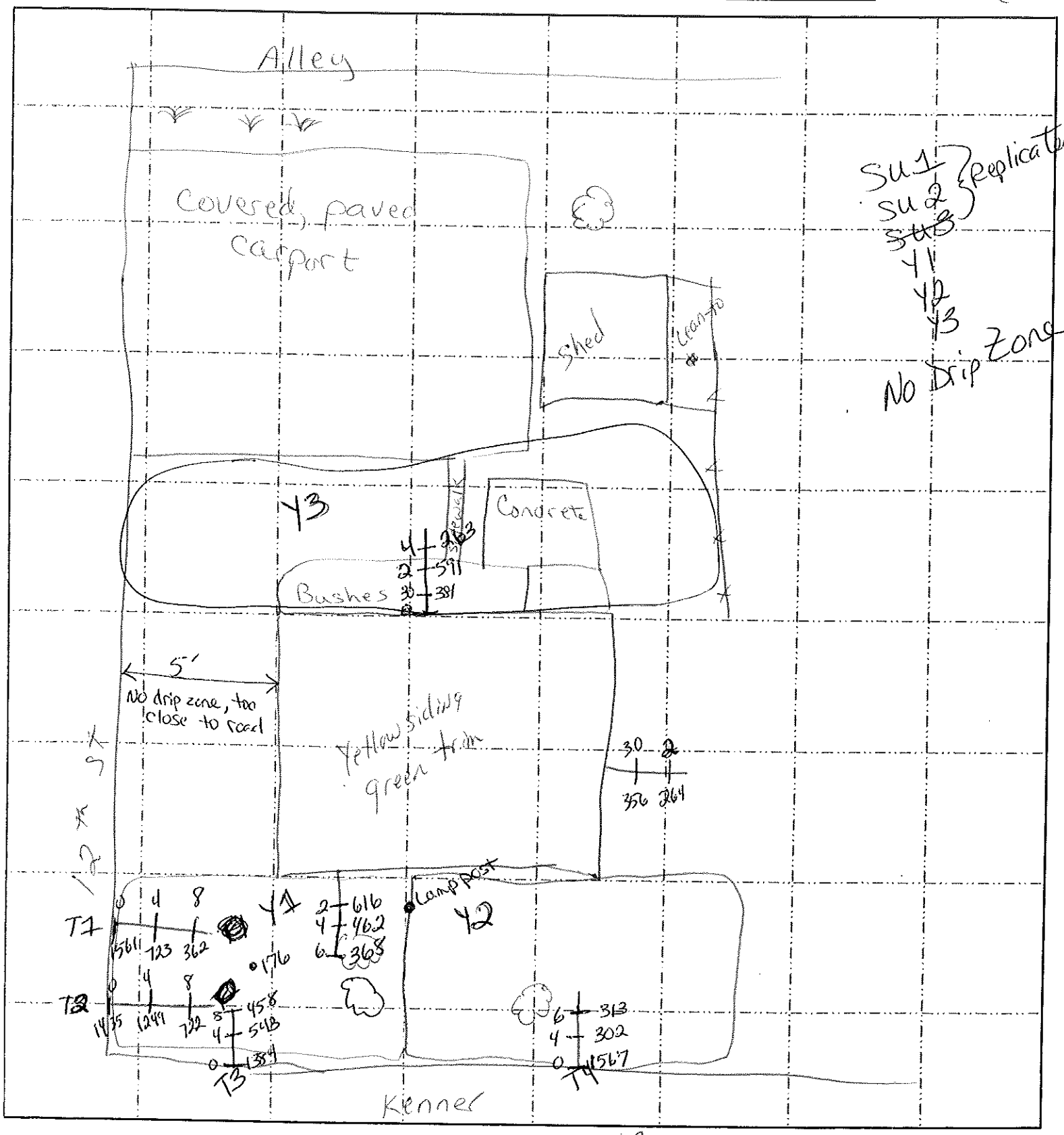
Comments:

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 125 STREET: 1024 Kenner St.

N



XRF SerNum(s)_____ Date Screened/Sampled 4-11-12

Team Member(s):_____

Sketch by shelly

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 125

Owner Contact Information:

Owner: Volkert Michael Jr & Randi Heideckes

Physical Address of Property Sampled: 1024 Kenner St.

Phone 1: 314-566-2321 Phone 2: _____

Dog Issues? no/inside **Year Built:** 1953

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 2 **Number of Children:** ~~0~~ 1, new baby

Physical Description of House/Property:

small tan ranch style w/green shutters

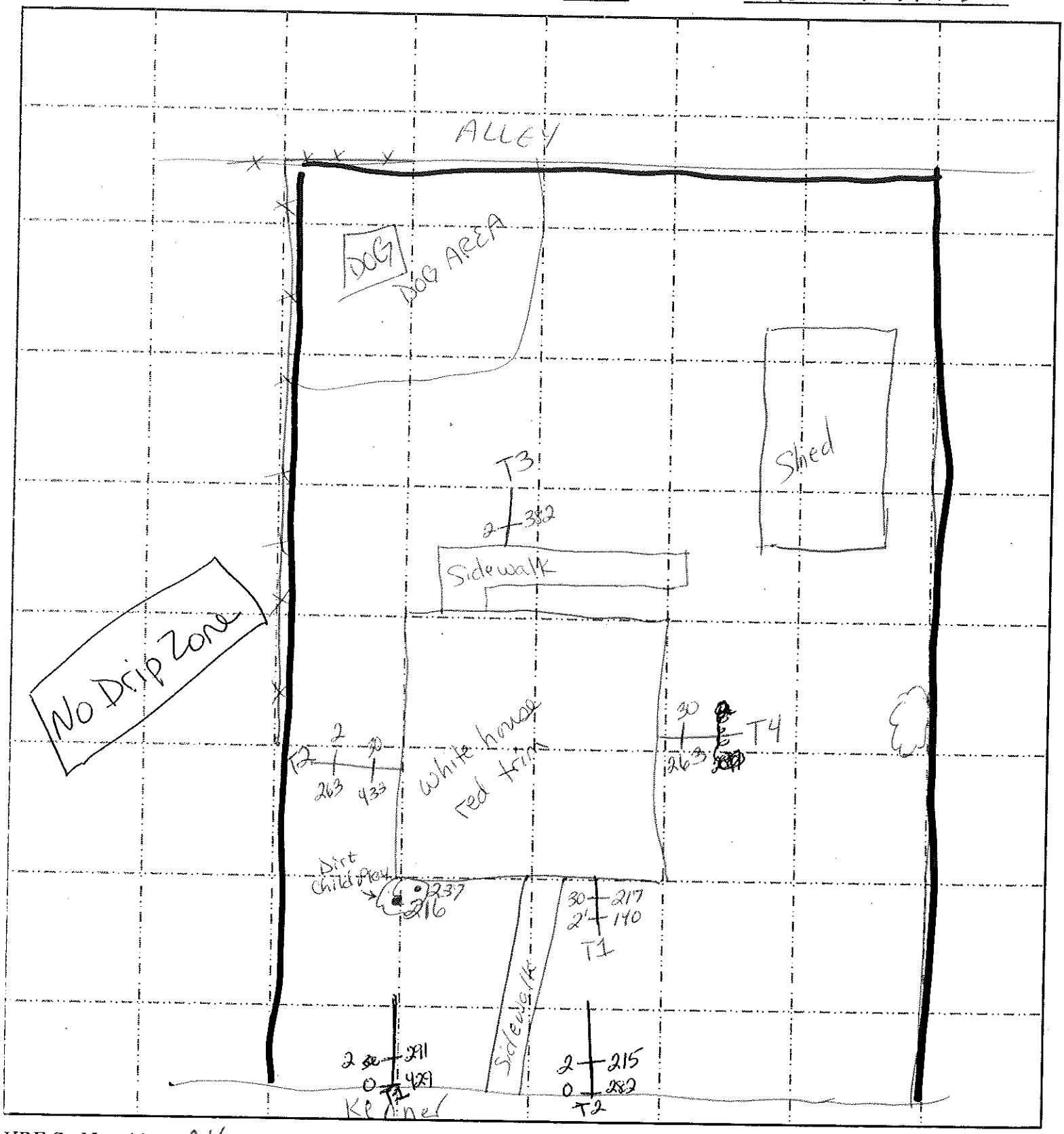
Comments:

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 217 **STREET:** 1022 Kenner St.

N



XRF SerNum(s) A4 Date Screened/Sampled 4-12-11

Team Member(s): [illegible]

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #:_____

Owner Contact Information:

Owner: Danielle Parnell (renter)

Physical Address of Property Sampled: 1022 Kenner St.

Phone 1: _____ Phone 2: _____

Dog Issues? ✓ **Year Built:** —

Occupant Contact Info (if not owner-occupied):

Name(s): Trina white (owner) 1887 Manor way Ln. Fenton, MO 63026

Number of Residents: 7 **Number of Children:** 5

Physical Description of House/Property:

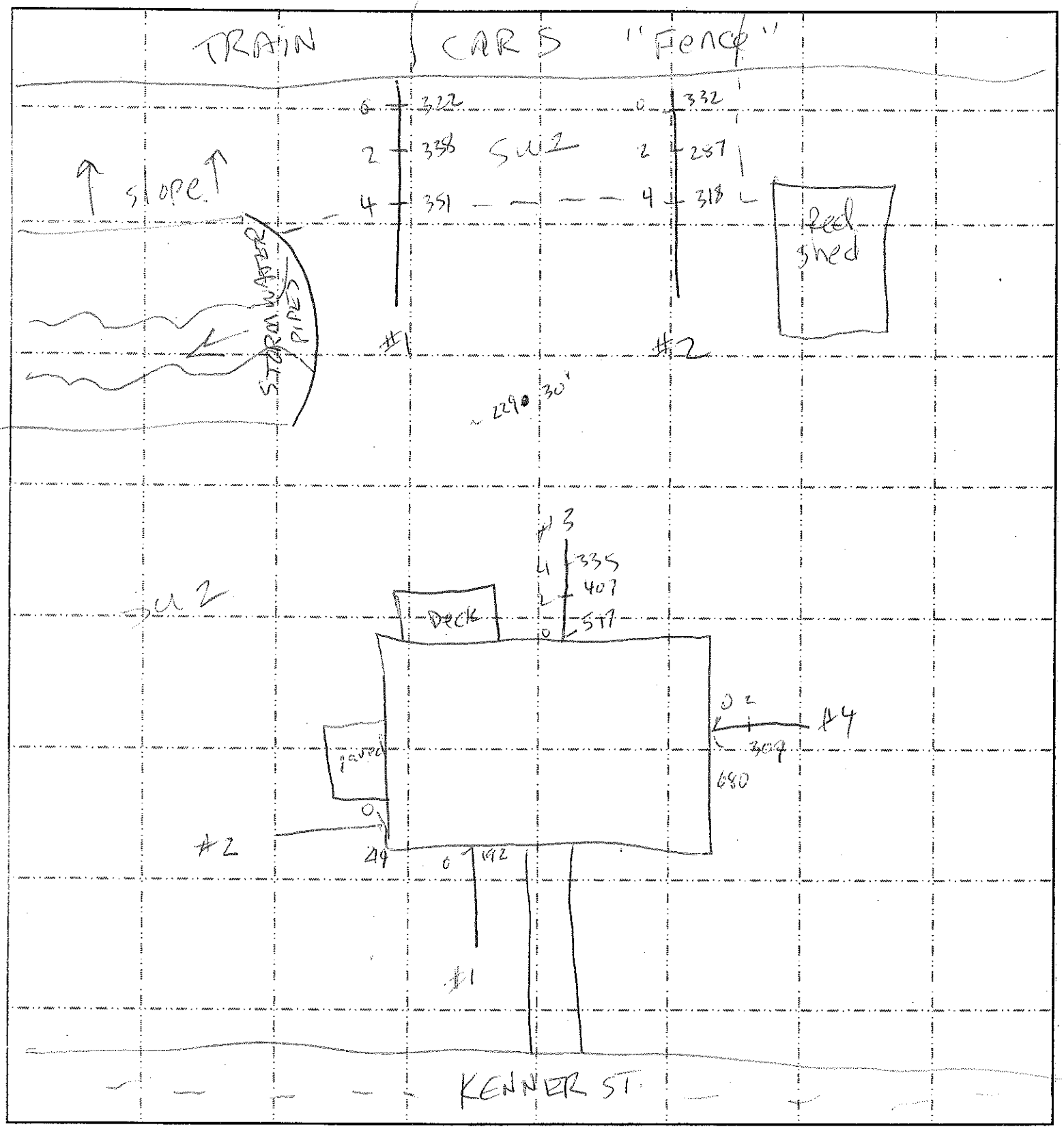
Comments:

Permission to Sample Granted Verbally By: Danielle Parnell **On (date):** 4-12-11

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 215 **STREET:** 1301 Kenner

N



XRF SerNum(s) AL1 Date Screened/Sampled 4-12-12

Team Member(s): AL

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 215

Owner Contact Information:

Owner: Rudloff Genrich L

Physical Address of Property Sampled: _____

Phone 1: _____ Phone 2: _____

Dog Issues? _____ **Year Built:**

Occupant Contact Info (if not owner-occupied):

Name(s): _____

Number of Residents: _____ ____ **Number of Children:** _____

Physical Description of House/Property:

Comments:

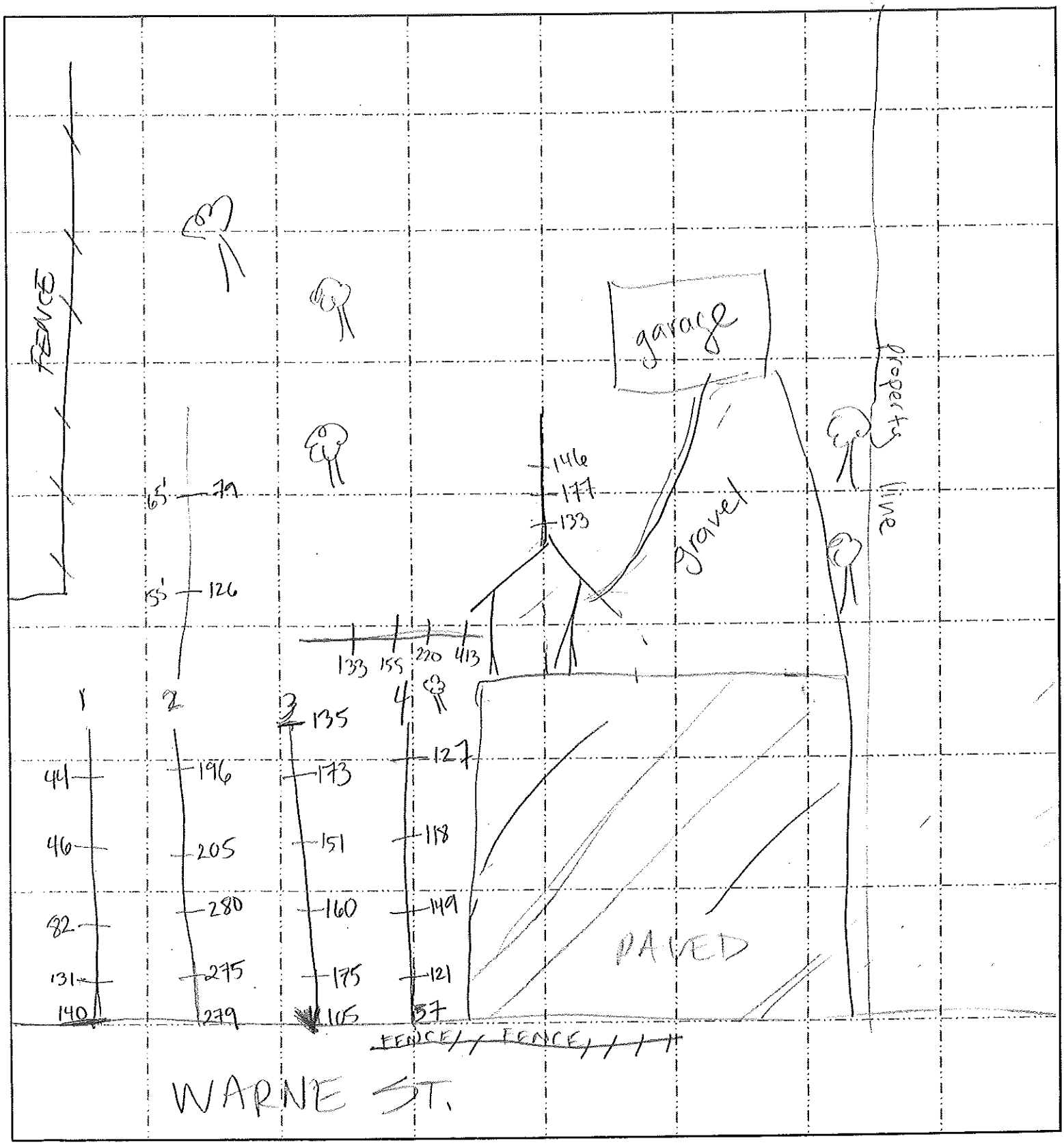
Rental, Green siding

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 139 STREET: 809 Warne St

N



XRF SerNum(s) 5434 5444 5420 Date Screened/Sampled_____

Team Member(s):_____

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 139

Owner Contact Information:

Owner: Fite Irene

Physical Address of Property Sampled: 809 Warne St

Phone 1: 314-780-7717 Phone 2: _____

Dog Issues? no **Year Built:** 1940

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 0 **Number of Children:** 0

Physical Description of House/Property:

Ranch style with partial cellar

Comments:

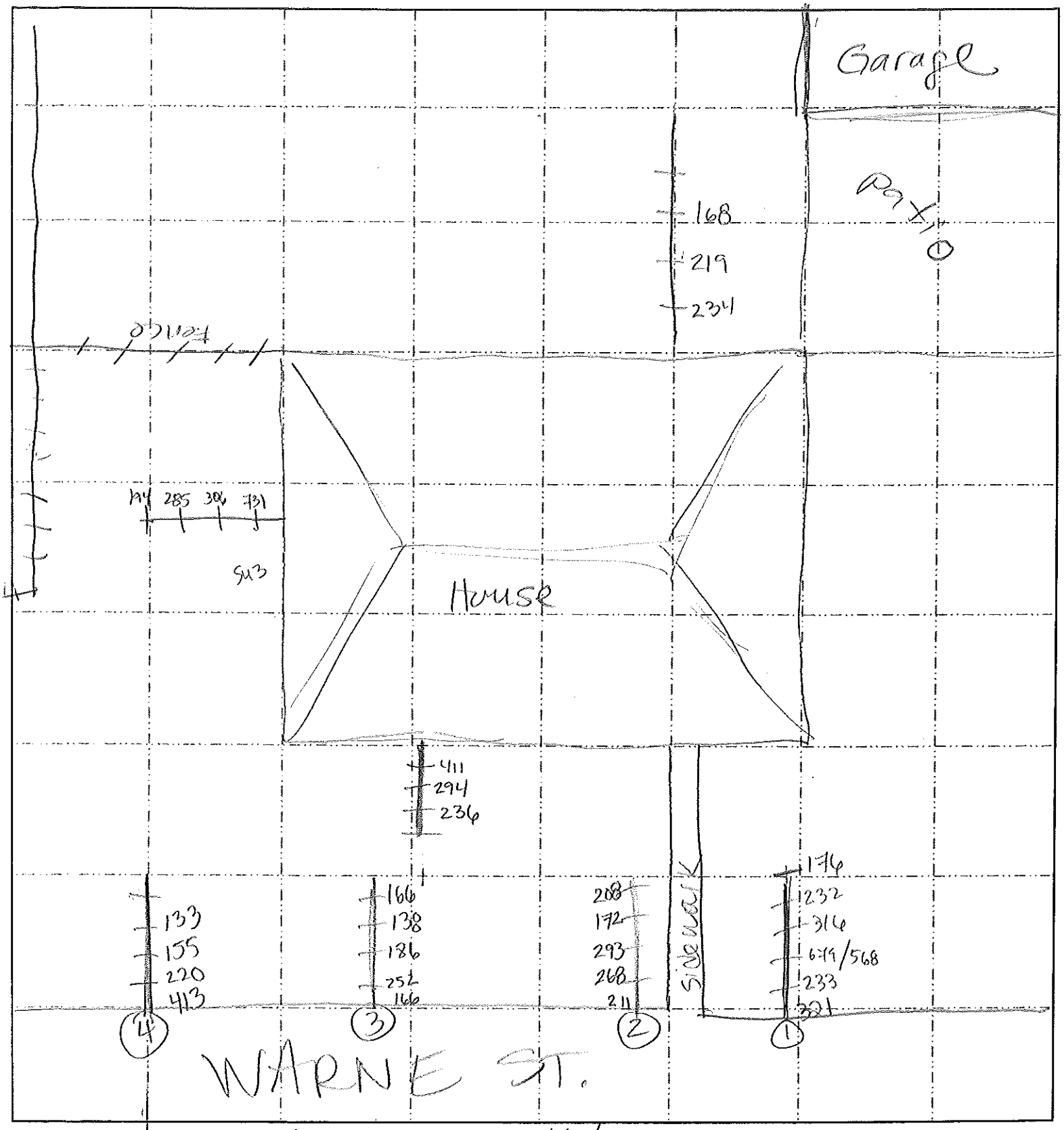
daughter Sherrie has power of attorney

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 174 STREET: 616 Warne St

N



XRF SerNum(s) 5420, 5424, 5444, 6424 Date Screened/Sampled 4/9/2012

Team Member(s):

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 174

Owner Contact Information:

Owner: Struttmann Robert A & Donata A

Physical Address of Property Sampled: 616 Warne St

Phone 1: 636-937-3013 Phone 2: _____

Dog Issues? no **Year Built:** 1940

Occupant Contact Info (if not owner-occupied):

Name(s): Robert & Donata Struttman

Number of Residents: 2 **Number of Children:** 0

Physical Description of House/Property:

siding, sm frnt porch, patio & shed in back, garage

Comments:

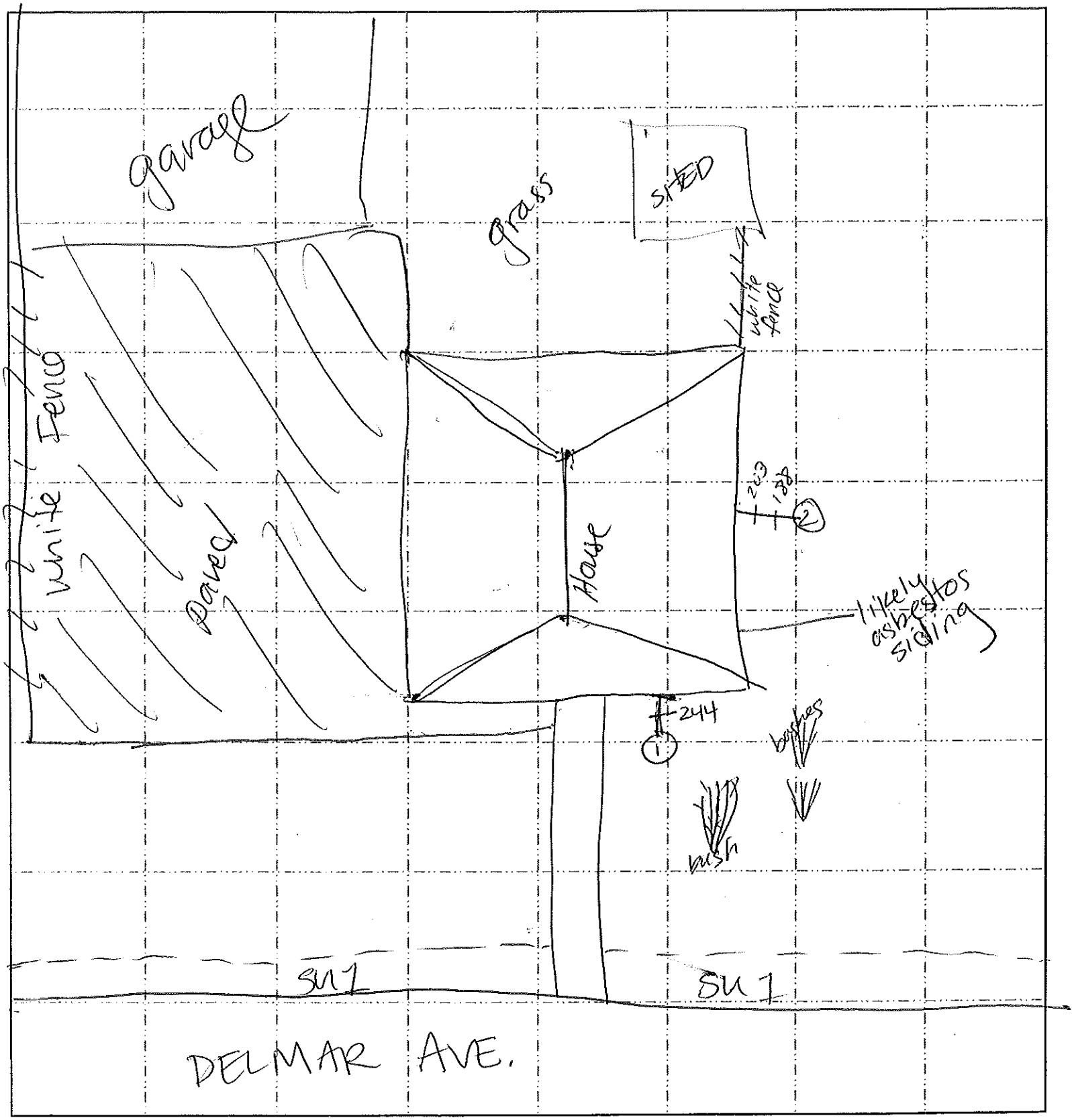
dog is harmless in fenced back yard

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 155 STREET: 847 Delmar Ave

N



XRF SerNum(s)_____ Date Screened/Sampled_____

Team Member(s):_____

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 155

Owner Contact Information:

Owner: Operle Wayne & Shirley

Physical Address of Property Sampled: 847 Delmar Ave

Phone 1: 636-937-7873 Phone 2: _____

Dog Issues? no **Year Built:** 1948

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 2 **Number of Children:** 0

Physical Description of House/Property:

white siding, large front porch w/porch swing

Comments:

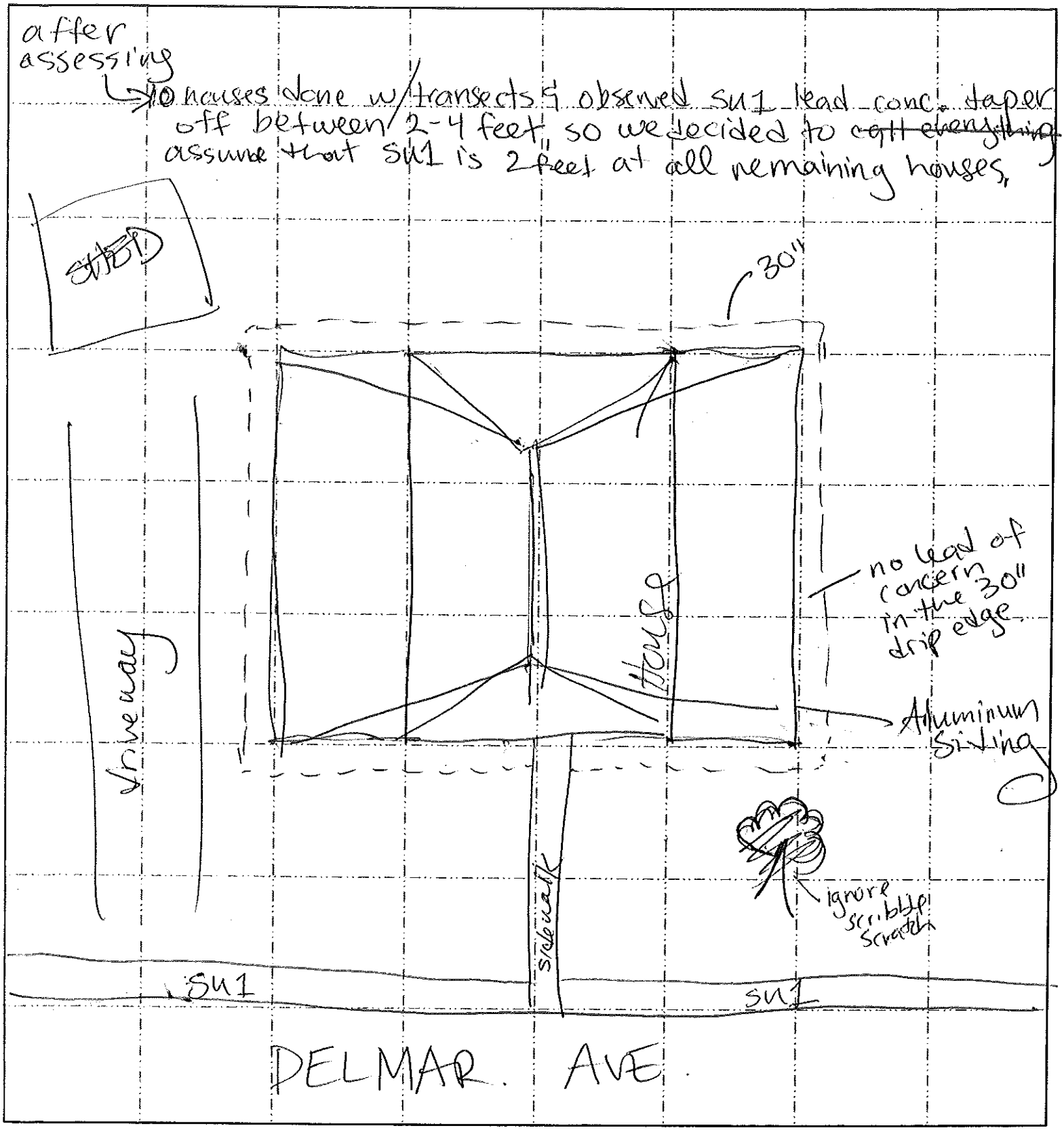
Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 133 STREET: 851 Delmar Ave

N

after assessing 10 houses done w/transects & observed SU1 lead conc. taper off between 2-4 feet, so we decided to ~~call everything~~ assume that SU1 is 2 feet at all remaining houses.



XRF SerNum(s)_____ Date Screened/Sampled_____

Team Member(s):_____

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 133

Owner Contact Information:

Owner: Schilling Michael & Joy

Physical Address of Property Sampled: 851 Delmar Ave

Phone 1: 314-623-5561 Phone 2: _____

Dog Issues? yes **Year Built:** 1946

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 2 **Number of Children:** 0

Physical Description of House/Property:

yellow 1 story

Comments:

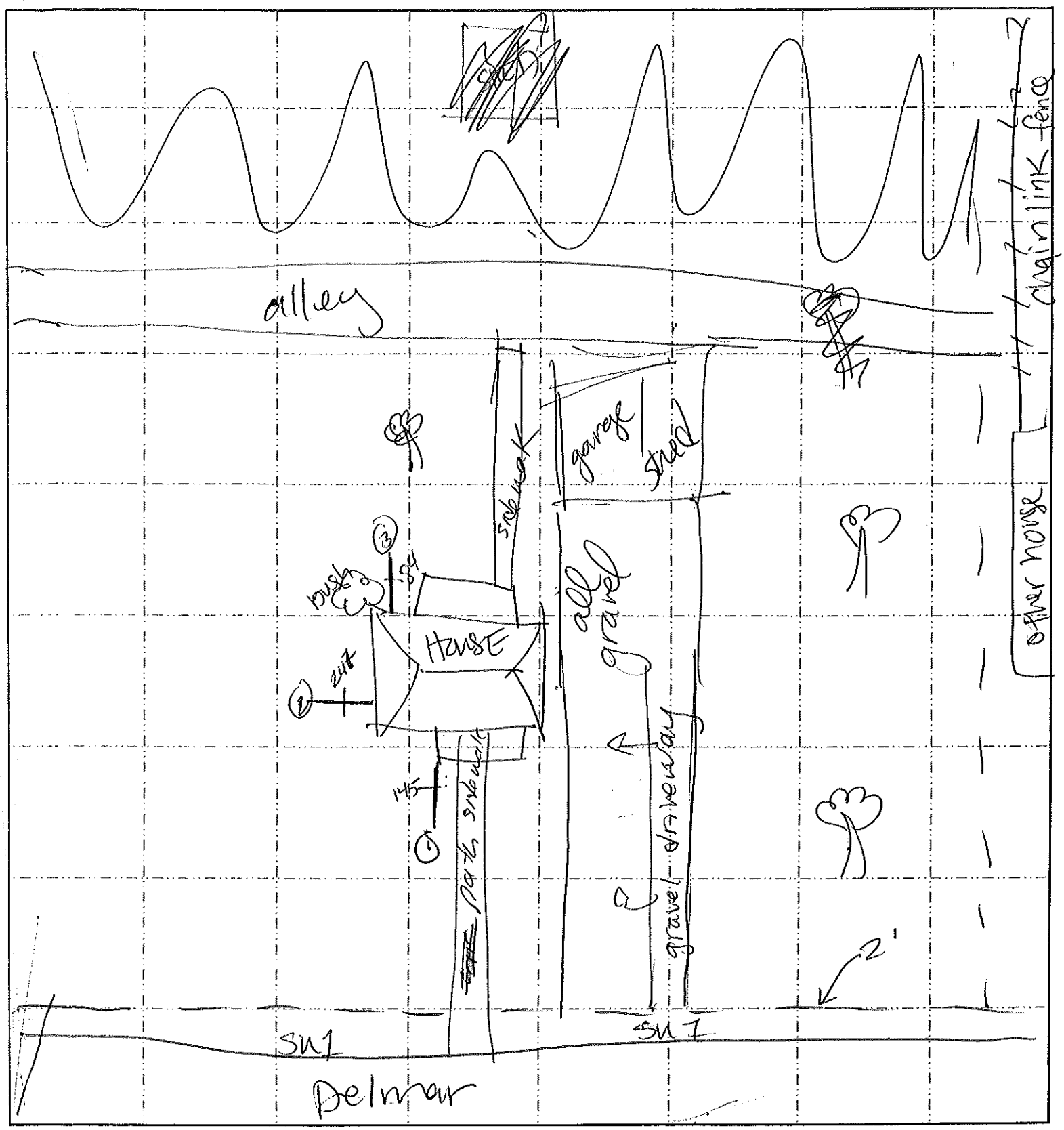
ok for front/call for back/mean dogs

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 134 STREET: 835 Delmar Ave

N



XRF SerNum(s)_____ Date Screened/Sampled_____

Team Member(s):_____

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 134

Owner Contact Information:

Owner: Hanley David B

Physical Address of Property Sampled: 835 Delmar Ave

Phone 1: 636-937-0678 Phone 2: _____

Dog Issues? no **Year Built:** 1940

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 1 **Number of Children:** 0

Physical Description of House/Property:

small 3 bedroom home

Comments:

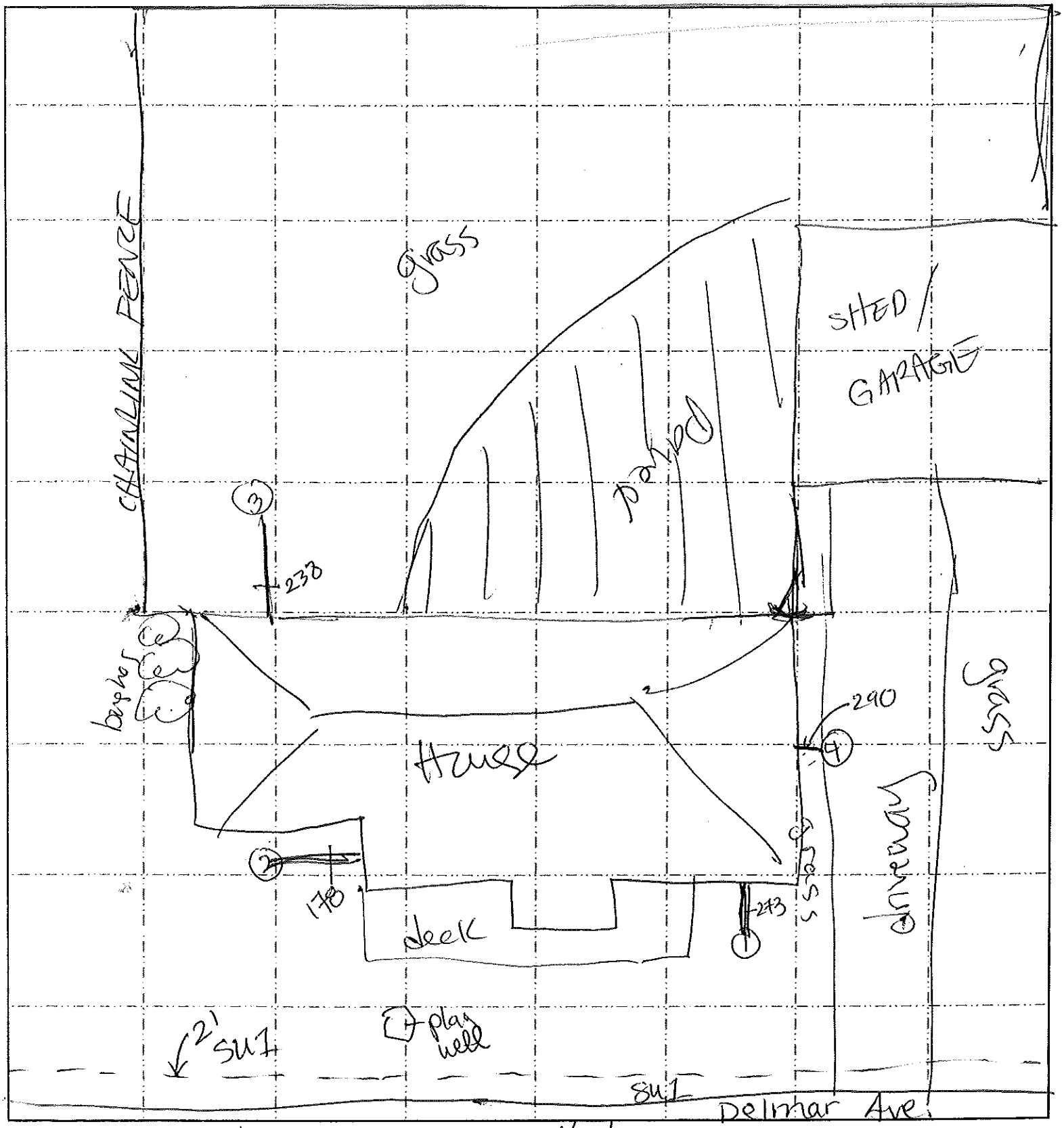
above line is same person

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 154 STREET: 843 Delmar Ave

N



XRF SerNum(s) SHELLY & PAUL Date Screened/Sampled 4/10/2012

Team Member(s):_____

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 154

Owner Contact Information:

Owner: LaChance Eugene

Physical Address of Property Sampled: 843 Delmar Ave

Phone 1: 636-931-5457 Phone 2: _____

Dog Issues? no **Year Built:** 1940

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 2 **Number of Children:** 0

Physical Description of House/Property:

Comments:

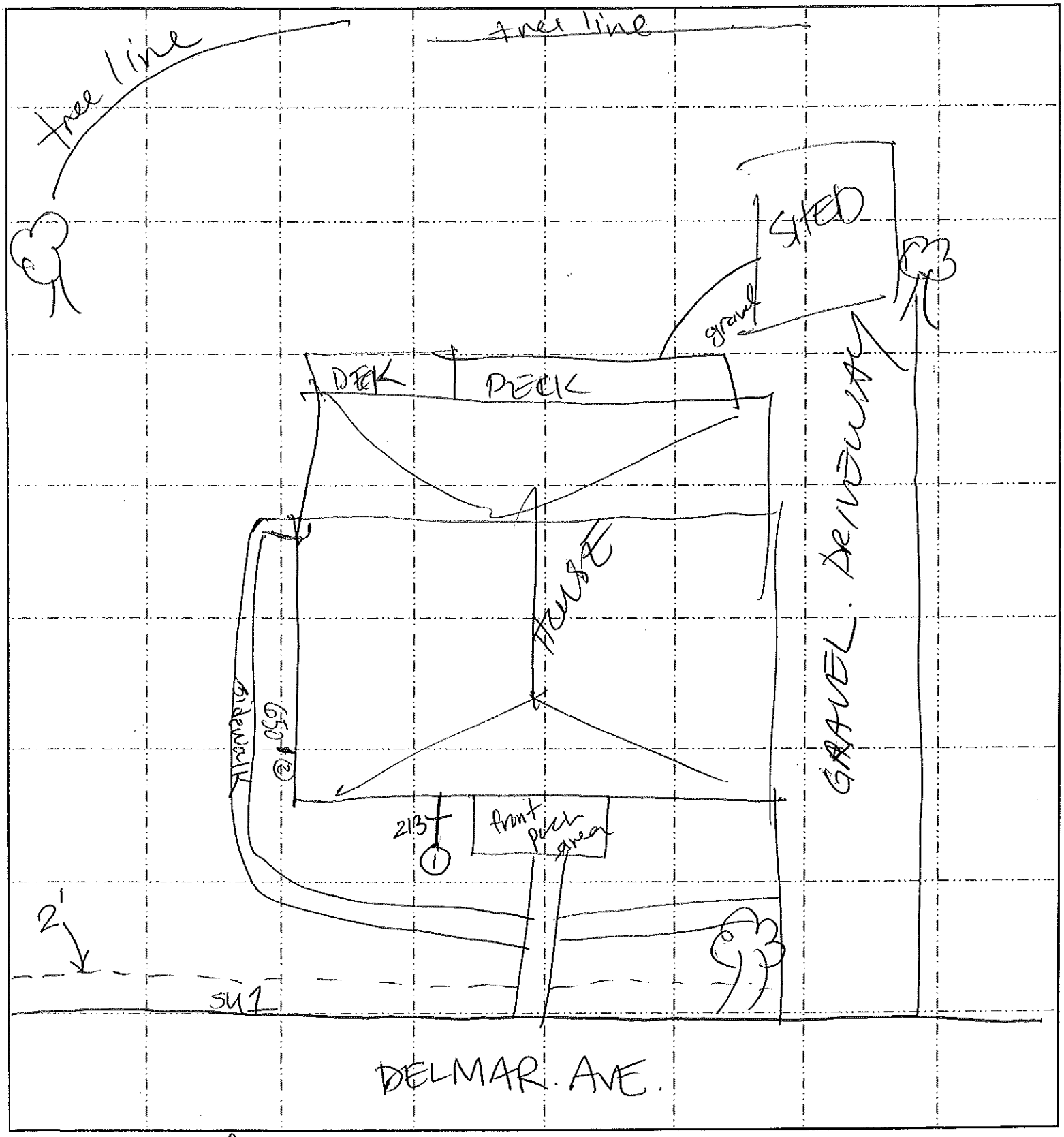
daughter lives with him/wife deceased

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 148 STREET: 838 Delmar Ave

N



XRF SerNum(s) Paul Date Screened/Sampled_____

Team Member(s):_____

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 148

Owner Contact Information:

Owner: Roth Sandy

Physical Address of Property Sampled: 838 Delmar Ave

Phone 1: 314-259-2746 Phone 2: 314-713-5150

Dog Issues? no **Year Built:** 1940

Occupant Contact Info (if not owner-occupied):

Name(s): Jennifer Casey

Number of Residents: 4 **Number of Children:** 0

Physical Description of House/Property:

3 bedroom bungalow w/partial basement

Comments:

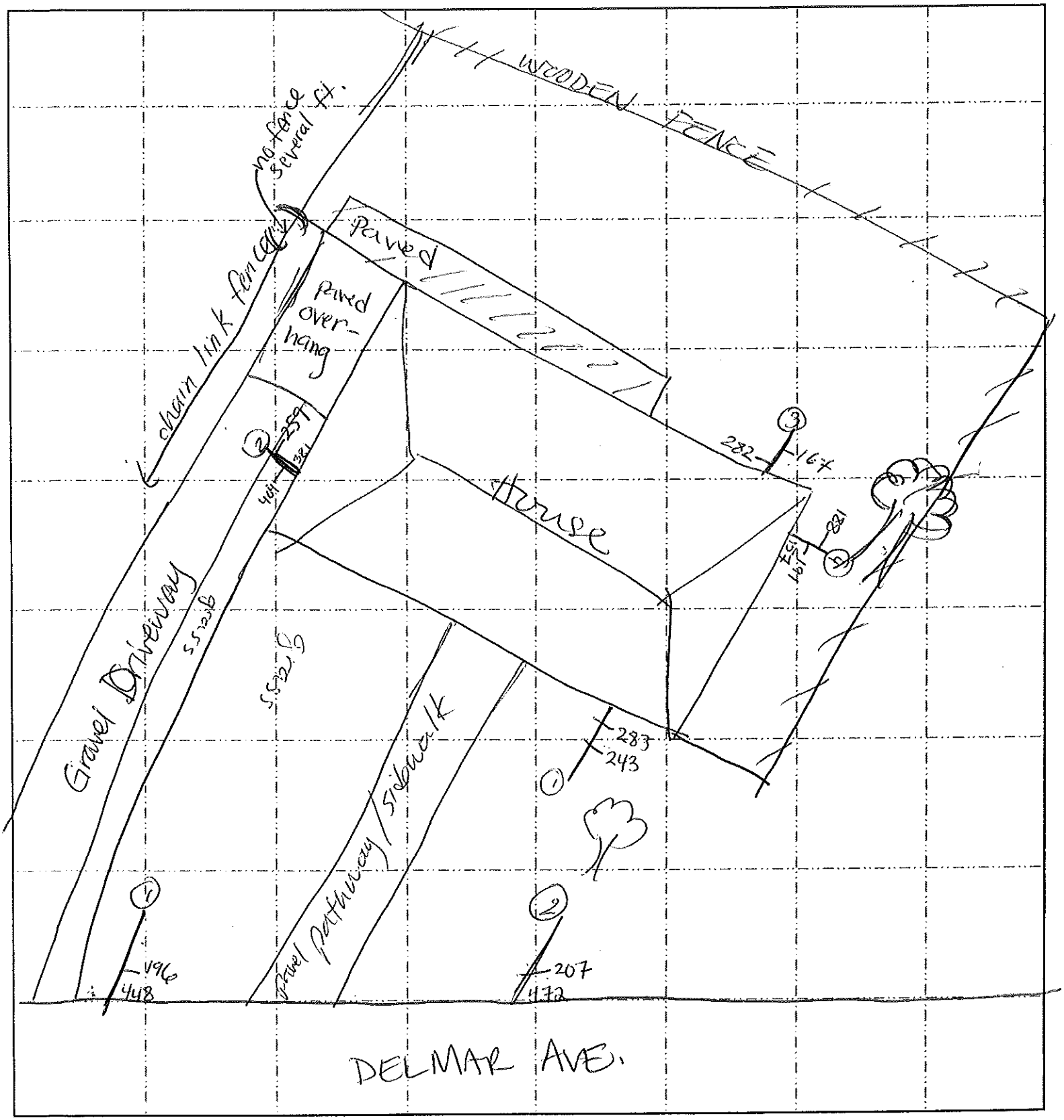
occupant #636-209-0740

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 143 STREET: 855 Delmar Ave

N



XRF SerNum(s)_____ Date Screened/Sampled_____

Team Member(s):_____

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 143

Owner Contact Information:

Owner: Fenton Carrie

Physical Address of Property Sampled: 855 Delmar Ave

Phone 1: 636-208-6968 Phone 2: 636-232-6304

Dog Issues? no **Year Built:** 1950

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 5 **Number of Children:** 1

Physical Description of House/Property:

yellow siding, driveway & carport on side

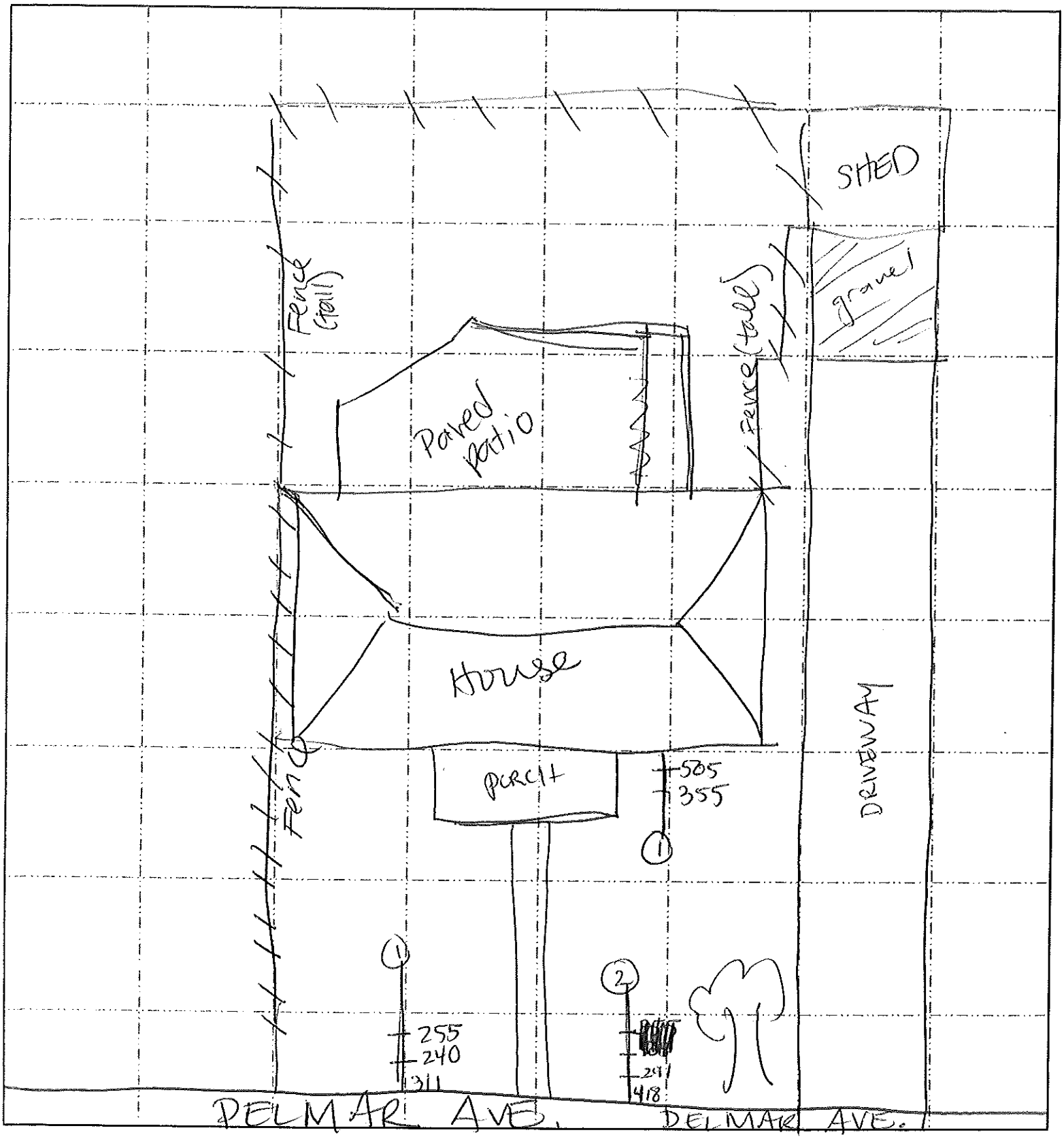
Comments:

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 146 STREET: 854 Delmar Ave

N



XRF SerNum(s)_____ Date Screened/Sampled_____

Team Member(s):_____

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 146

Owner Contact Information:

Owner: Corbin Jeffrey D & Ellen R

Physical Address of Property Sampled: 854 Delmar Ave

Phone 1: 636-548-6321 Phone 2: _____

Dog Issues? no **Year Built:** 1930

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 4 **Number of Children:** 0

Physical Description of House/Property:

small beige w/brown trim

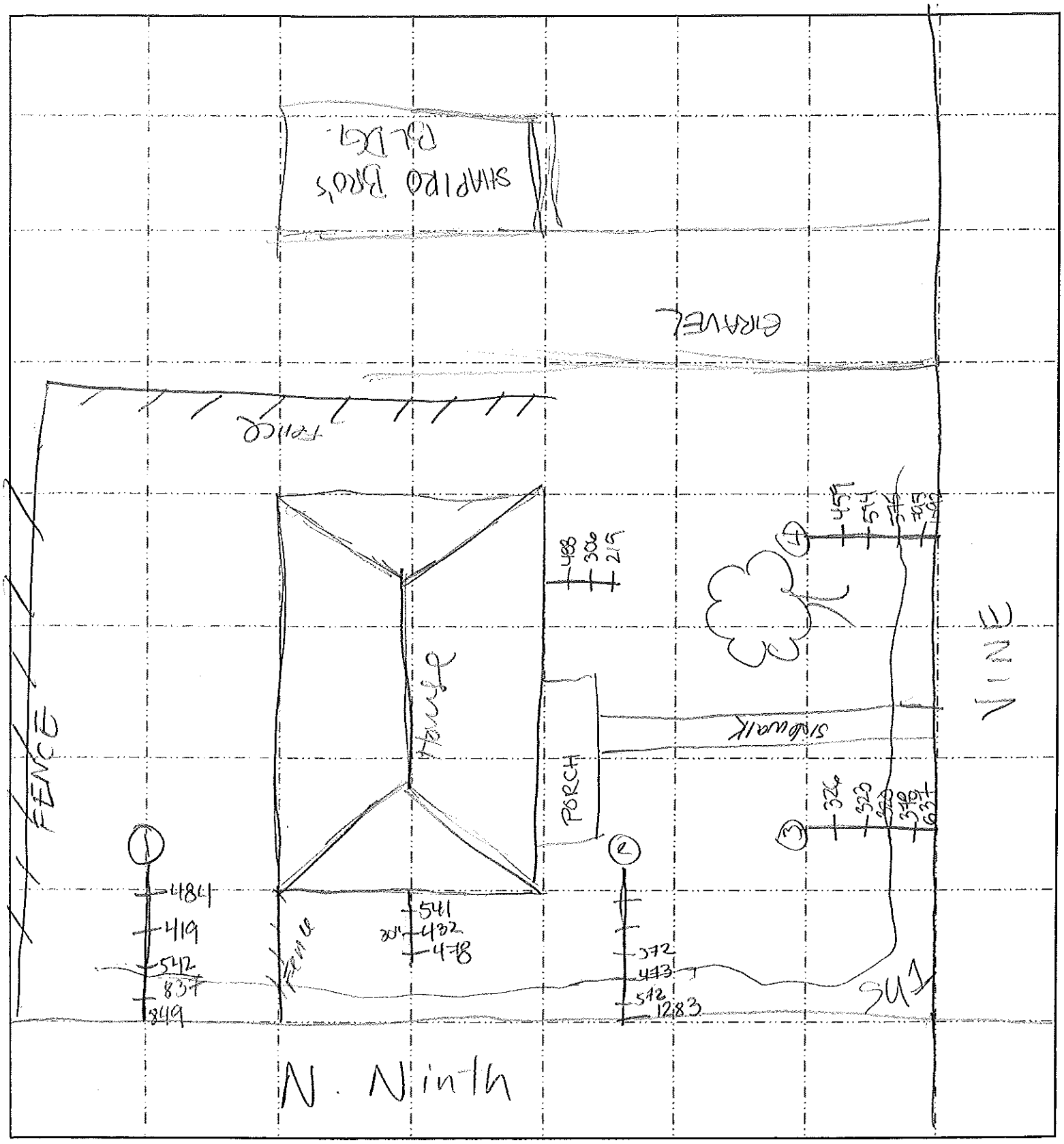
Comments:

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 103 STREET: 111 N. Ninth St.

N



XRF SerNum(s)_____ Date Screened/Sampled_____

Team Member(s):_____

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 103

Owner Contact Information:

Owner: Baker Eric & Dawn

Physical Address of Property Sampled: 111 N. Ninth St.

Phone 1: 314-795-6929 Phone 2: _____

Dog Issues? yes (2) **Year Built:** 1948

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 3 **Number of Children:** 0

Physical Description of House/Property:

Filthy w/black soot that won't wash off

Comments:

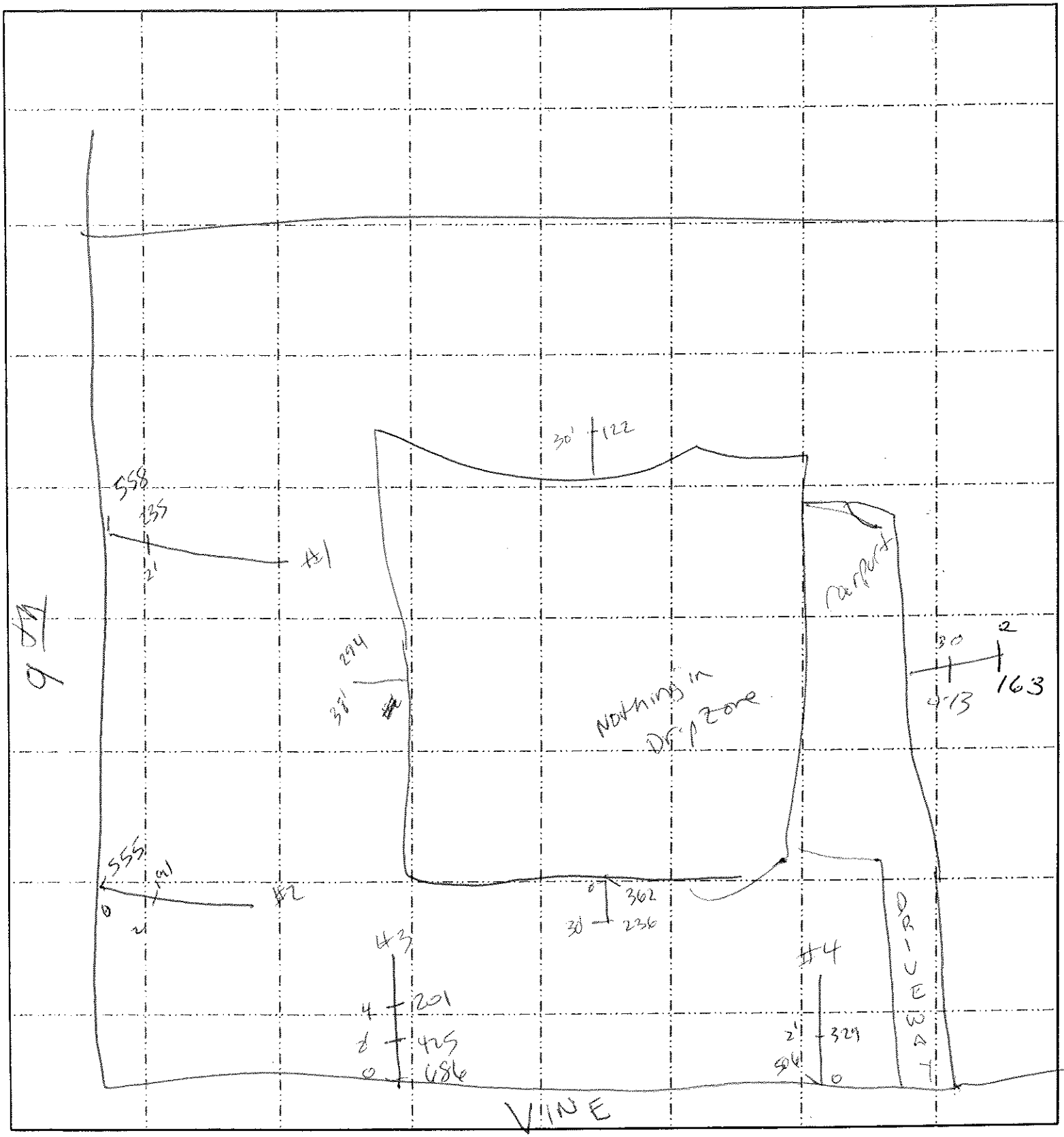
Eric's address is 111 N. 9th Street

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 127 STREET: 116 N. Ninth St.

N



XRF SerNum(s) 011 Date Screened/Sampled 4-10-12

Team Member(s): AL

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 127

Owner Contact Information:

Owner: Steiger Family Trust

Physical Address of Property Sampled: 116 N. Ninth St.

Phone 1: 636-931-8505 Phone 2: _____

Dog Issues? no **Year Built:**

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: _____ _____ **Number of Children:**

Physical Description of House/Property:

Brick ranch style

Comments:

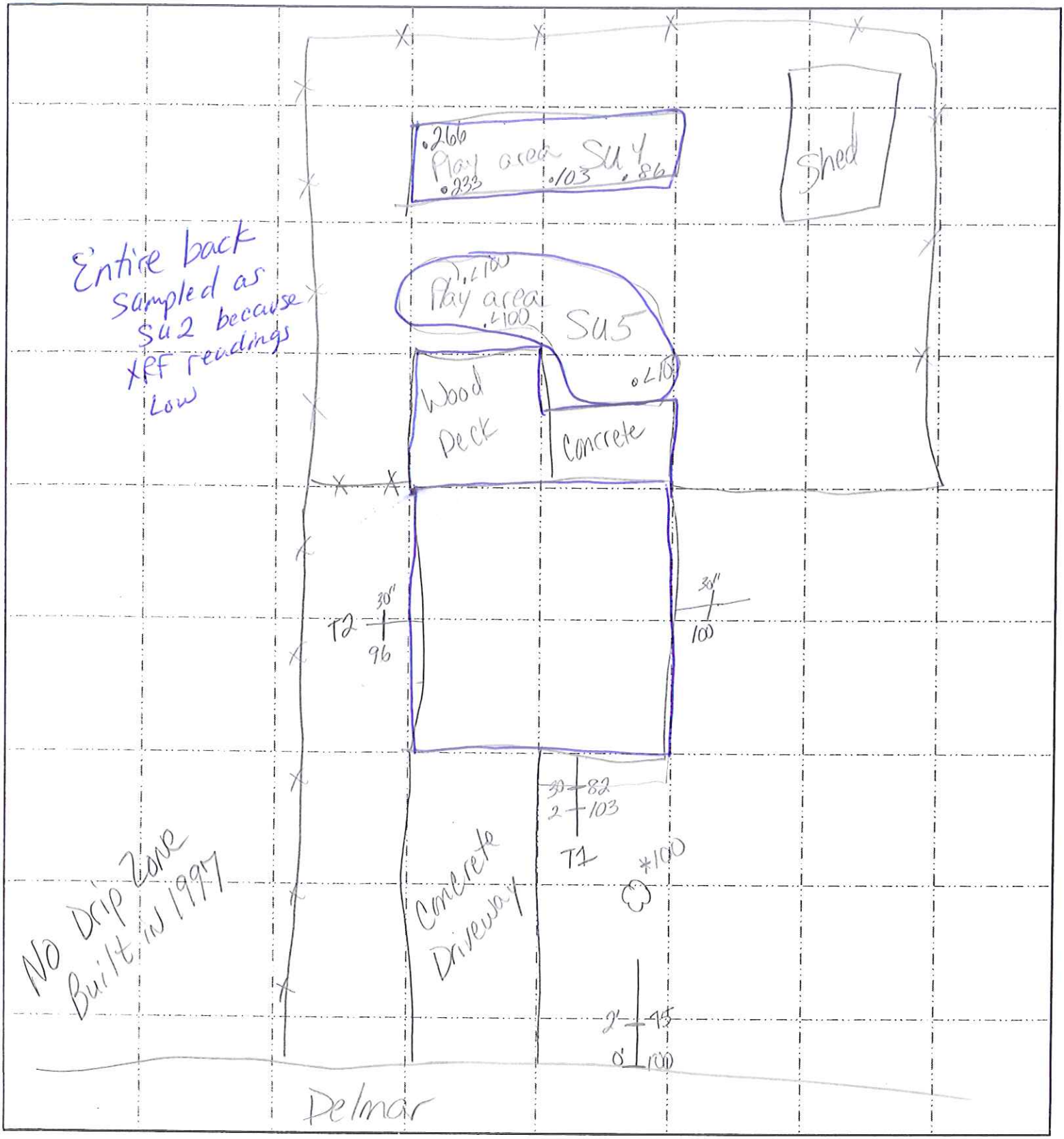
didn't fill out whole form

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 163 STREET: 819 Delmar Ave

N



XRF SerNum(s)_____ Date Screened/Sampled_____

Team Member(s):_____

Sketch: SLJ

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 163

Owner Contact Information:

Owner: Smith James & Jessica

Physical Address of Property Sampled: 819 Delmar Ave

Phone 1: 937-1979 Phone 2: _____

Dog Issues? no **Year Built:** 1997

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 6 **Number of Children:** 2

Physical Description of House/Property:

ranch style

Comments:

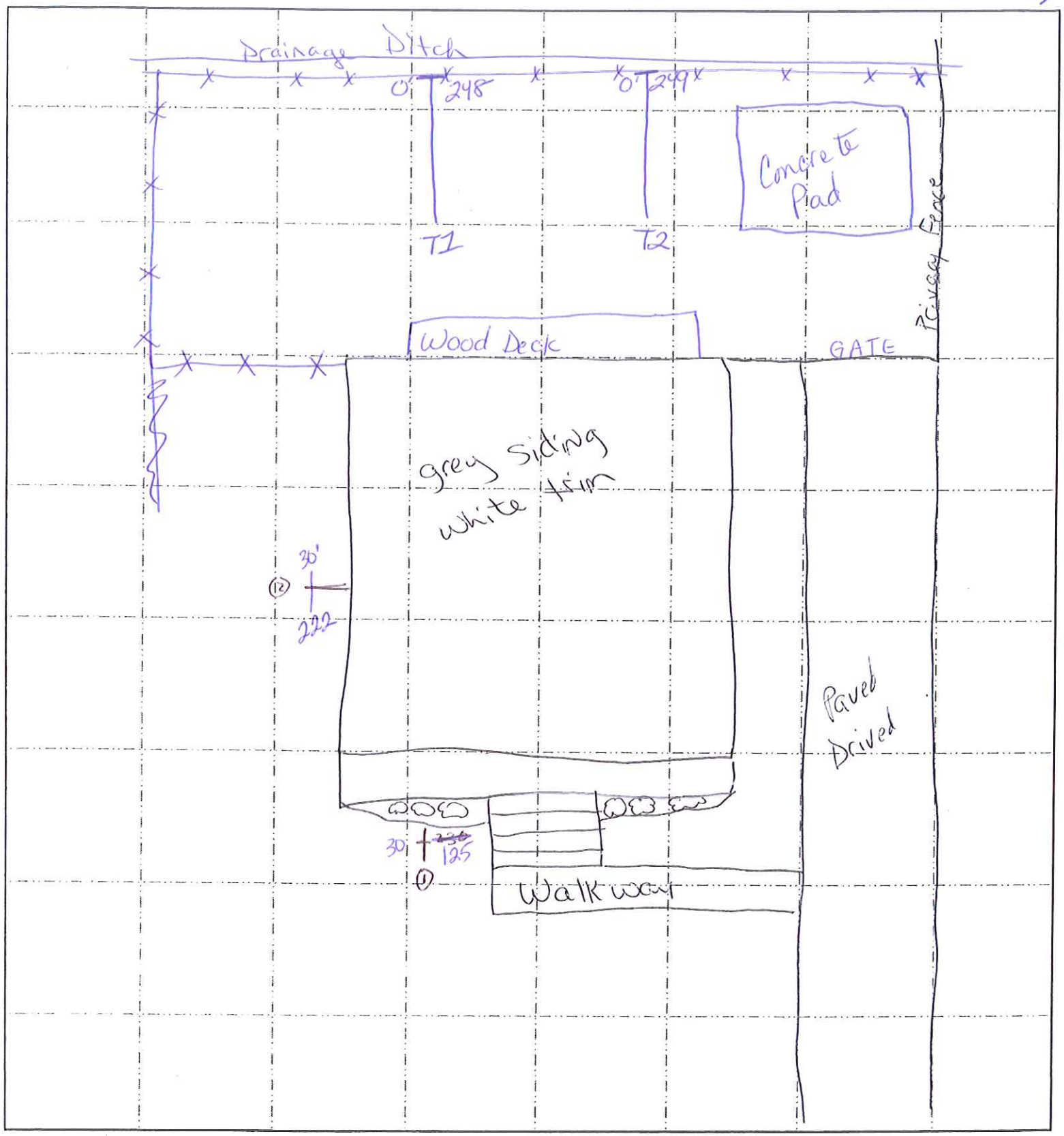
4 kids viewed in window
possible private day care?
many, many kids toys in back

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 123 STREET: 1215 Kenner St.

N



XRF SerNum(s)_____ Date Screened/Sampled 4-11-12

Team Member(s):_____

Sketch by Shelly

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 123

Owner Contact Information:

Owner: Stevenson Angi Y

Physical Address of Property Sampled: 1215 Kenner St.

Phone 1: 314-603-7133 Phone 2: _____

Dog Issues? yes **Year Built:** 1938

Occupant Contact Info (if not owner-occupied):

Name(s): Renee Stevenson

Number of Residents: 2 **Number of Children:** 1

Physical Description of House/Property:

white & grey

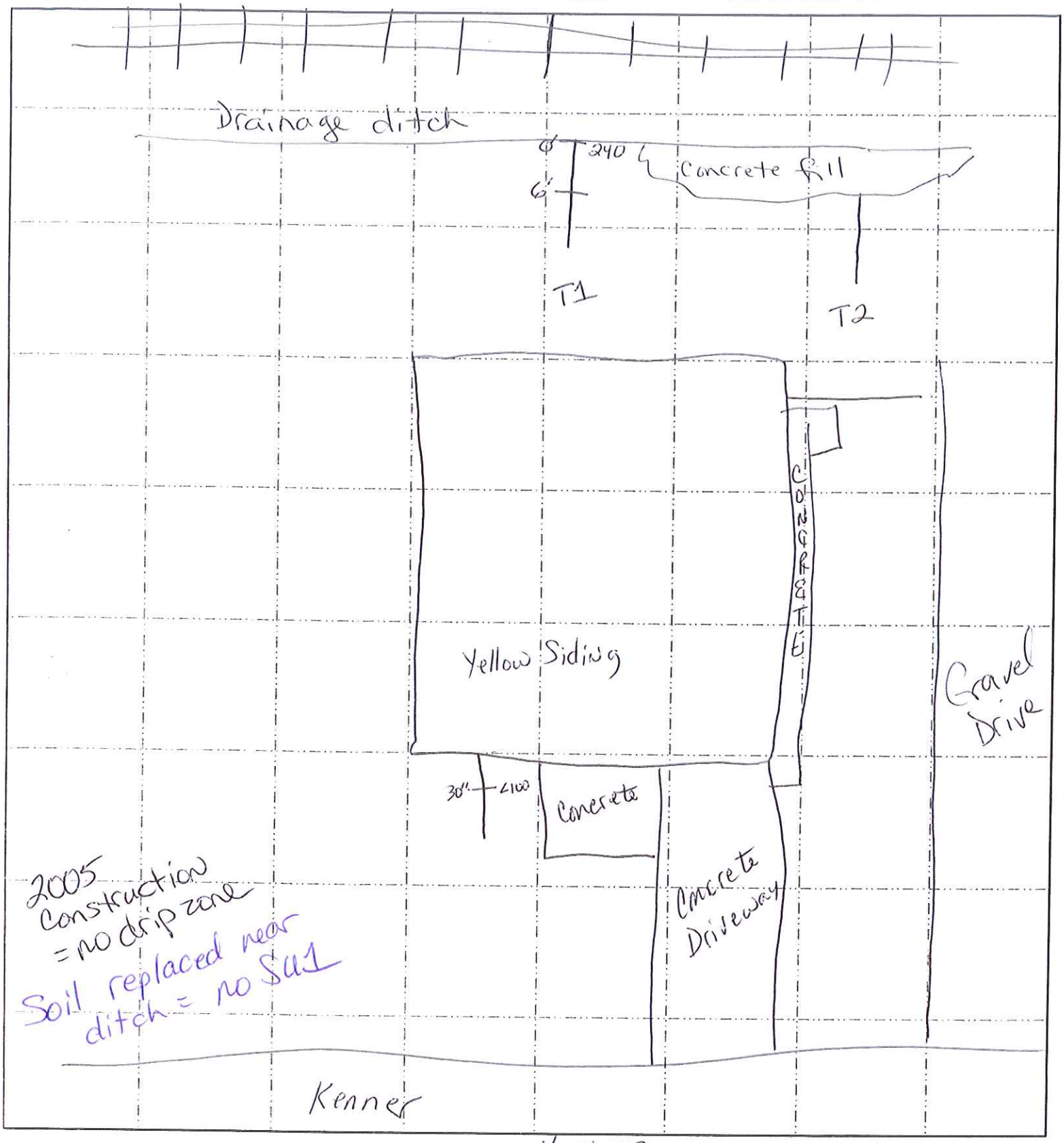
Comments:

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 108 STREET: 1219 Kenner St.

N



XRF SerNum(s)_____ Date Screened/Sampled 4-11-12 Sketch by Shelly

Team Member(s):_____

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 108

Owner Contact Information:

Owner: Dorlac Donald

Physical Address of Property Sampled: 1219 Kenner St.

Phone 1: 314-800-4082 Phone 2: _____

Dog Issues? no **Year Built:** 2005

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 1 **Number of Children:** 0

Physical Description of House/Property:

corner of 13th & Kenner, yellow hse w/1 car garage

Comments:

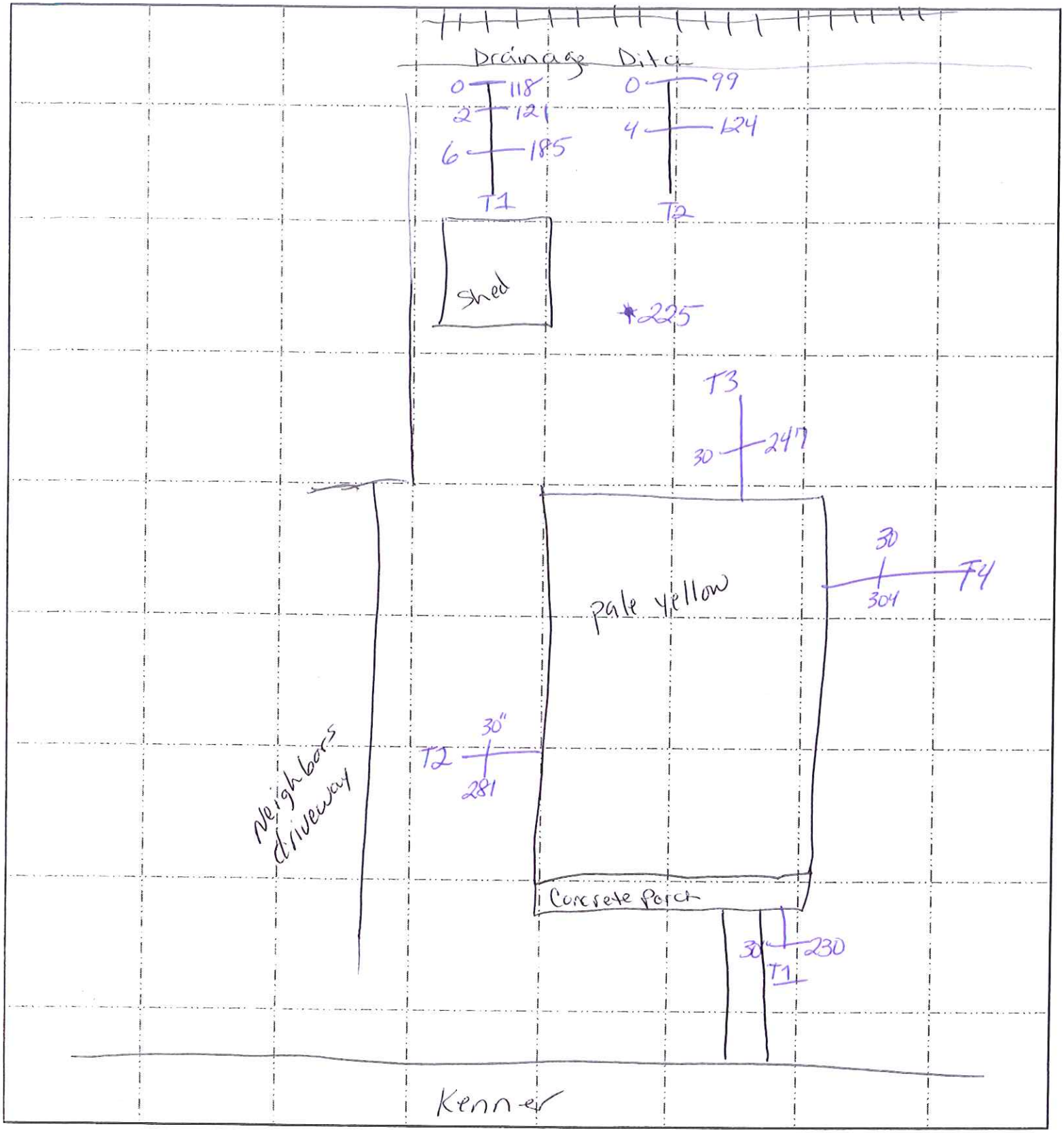
dust/loud noise always/water bad

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 121 STREET: 1217 Kenner St.

N



XRF SerNum(s)_____ Date Screened/Sampled 4-11-12

Team Member(s):_____

Sketch by Shelly

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE

RESIDENTIAL YARD FIELD SHEET

Location ID #: 121

Owner Contact Information:

Owner: Short Mark & Mary

Physical Address of Property Sampled: 1217 Kenner St.

Phone 1: 636-933-1915 Phone 2: 314-852-3346

Dog Issues? no **Year Built:** 1942

Occupant Contact Info (if not owner-occupied):

Name(s): Wally Biehle

Number of Residents: 1 **Number of Children:** 0

Physical Description of House/Property:

yellow sided house with porch

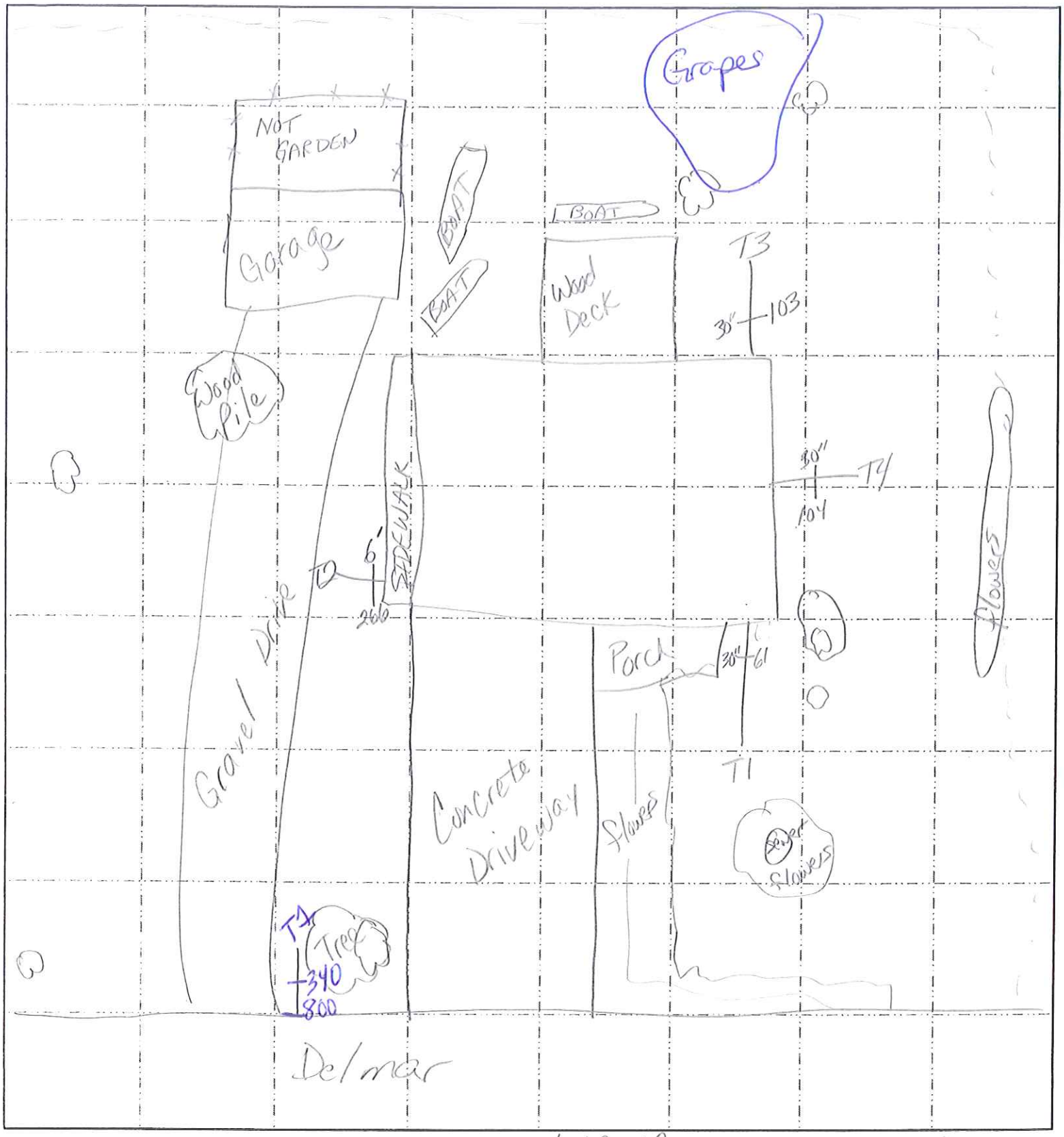
Comments:

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: 135 STREET: 824 Delmar Ave

N



XRF SerNum(s)_____ Date Screened/Sampled 4-12-12

Team Member(s):_____

Sketched by Shelly

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET

Location ID #: 135

Owner Contact Information:

Owner: Kline Edward J Jr.

Physical Address of Property Sampled: 824 Delmar Ave

Phone 1: 636-933-4248 Phone 2: 636-208-5115

Dog Issues? no **Year Built:** 0

Occupant Contact Info (if not owner-occupied):

Name(s): _

Number of Residents: 3 **Number of Children:** 0

Physical Description of House/Property:

Brick-camper in driveway

Comments:

Permission to Sample Granted Verbally By: **On (date):**

Missouri Department of Natural Resources

Team No. 1

COPY

SOIL SAMPLE LOG
Shapiro Brothers Site, Festus, MO

65

Loc. ID	Sample ID (SU/DU#)	Date Collected	Time Collected	Collector's Name	Comments
300	DU1	4-9-12	1025	MS	BKgd West City Park
139	SU3	" "	1:05	VW	Drip zone
139	SU2	" "	1:00	MS	
139	SU1	" "	12:45	MS	
174	SU1	"	1500	MS	
174	SU2	"	1520	MS	
174	SU3	"	1515	MS	drip zone
103	SU1	"	1625	"	Rep1.1
103	SU1	"	1638	"	Rep1.2
103	SU1	"	1645	"	Rep1.3
103	SU2	"	1630	"	Rep1.1
103	SU2	"	1655	"	Rep1.2
103	SU2	"	1645	"	Rep1 3
103	SU3	"	1635	"	Drip Zone
103	Y1	"	1655	"	Rep1
103	Y1	"	↓	"	Rep2
103	Y1	"	↓	"	Rep3
103	Y2	"	1700	"	Rep1
103	Y2	"	↓	"	Rep2
103	Y2	"	↓	"	Rep3
301	DU1	"	1730	"	Subset Park Bkgd
302	DU1	"	1802	"	Billy Porter Park Bkgd
110	SU1	4-10-12	0840	"	
110	SU2	4-10-12	0837	"	
115	SU1 rep1	4-10-12	~~1053~~ 0953	"	Rep 1
115	SU1 rep2	4-10-12	0955	"	Rep 2
115	SU1 Rep3	4-10-12	0955	"	Rep 3
115	SU2 Rep1	"	1020	"	Rep1
115	SU2 Rep2	"	1020	"	Rep2
115	SU2 Rep3	"	1020	"	Rep 3
117	SU2	"	0950	"	
117	SU1	"	0945	"	

15

32

Team No.____

	Loc. ID	Sample ID (SU/DU#)	Date Collected	Time Collected	Collector's Name	Comments
33	105	1	4/10/12	11:10	Michal S	
34	105	2	4/10	11:20	Michal S.	
35	105	3	4/10	11:20	Val W.	
36	116	SU 1 rep1	4/10	1215	MS	
37	116	SU 1 rep2	4-10	1200	MS	
38	116	SU 1 rep3	4-10	1210	MS	
39	116	Y1 rep1	"	124	"	
40	116	Y1-Rep2	"	1220	"	
41	116	Y1-Rep3	"	1225	"	
42	116	Y2 rep1	"	—	"	
43	116	Y2 rep2	"	—	"	
44	116	Y2 rep3	"	—	"	
45	116	SU2	"	1220	"	
46	116	SU2	"	1220	"	
47	116	SU2	"	1220	"	
48	116	Y3 rep1	"	—	"	
49	116	Y3 rep2	"	—	"	
50	116	Y3 rep3	"	—	"	
51	106	SU1	"	1240	"	
52	106	SU2	"	1243	"	
53	127	SU1	"	1420	SEVW	
54	127	SU2	"	1408	SC	
55	146	SU1 rep1	"	1455	MS	
56	146	SU1 rep2	"	1455	"	
57	146	SU1 rep3	"	1455	"	
58	146	SU2 rep1	"	1520	"	
59	146	SU2 rep2	"	1520	"	
60	146	SU2 rep3	"	1520	"	
61	146	Y1 rep1	"	—	"	
62	146	Y1 rep2	"	—	"	
63	146	Y1 rep3	"	—	"	
64	146	Y2 rep1	"	—	"	
65	146	Y2 rep2	"	—	"	
	146	Y2 rep3		—	Release	Accept 4-13-12

Date

Missouri Department of Natural Resources

Team No.____

COPY

SOIL SAMPLE LOG
Shapiro Brothers Site, Festus, MO

Loc. ID	Sample ID (SU/DU#)	Date Collected	Time Collected	Collector's Name	Comments
143	SU1	4-10	1532	PE	
143	SU2	"	1534	PE	
143	SU3	"	1535	PE	
133	SU1	"	1603	MS	
133	SU2	"	1609	MS	
133	Y1	"	—	MS	
133	Y2	"	—	MS	
133	Y3	"	—	MS	
155	SU1	"	1615	MS	
155	SU2	"	1622	VW	
154	SU1 rep1	"	1630		
154	SU1 rep2	"	1630		
154	SU1 rep3		1630		
154	SU2 rep1		1633		
154	SU2 rep2		1633		
154	SU2 rep3		1633		
154	Y1 rep1		—		
154	Y1 rep2		—		
154	Y1 rep3		—		
154	Y2 rep1		—		
154	Y2 rep2		—		
154	Y2 rep3		—		
154	Y3 rep1				
154	Y3 rep2				
154	Y3 rep3				
148	SU1	"	1703	KH	
148	SU2	"	1710	VW	
129	SU1	4-11-12	0815	VW	
129	SU2		0815	MS	
✓ ~~129~~	~~SU3~~				
135	SU-1	4-11-12	0827	KH/SC	
135	SU-2	4/11/12	0840	KH/SC	

18

Team No.____

	Loc. ID	Sample ID (SU/DU#)	Date Collected	Time Collected	Collector's Name	Comments
33	163	SU-1 rep1	4-11-12	845	KH	
34	163	SU-2 rep1	4-11-12	851	SC	
35	163	SU1 rep2	"	845	KH	
36	163	SU1 rep3	"	845	KH	
37	163	SU2 rep2	"	851	SC	
38	163	SU2 rep3	"	851	SC	
39	~~163~~	~~SU2 rep3~~	~~"~~	~~851~~	~~SC~~	Duplicate entry
40	215	SU1	4-11-12	1021	KH	
41	215	SU2	"	1028	KH	
42	~~119~~	~~SU1~~	~~"~~			
43	~~119~~	~~SU2~~	~~"~~			
44	120	SU1 rep1	"	1104		
45	120	SU1 rep2	"	1104		
46	120	SU1 rep3	"	1104		
47	120	SU2 rep1	"	1100		
48	120	SU2 Rep2	"	1100		
49	120	SU2 Rep3	"	1100		
50	119	SU1	"	1043		
51	119	SU2	"	1047		
52	108	SU2	"	1145		No SU1
53	121	SU2	"	1204	VW	No SU1
54	123	SU2	4-11-12	1228	KH	No SU1
55	109	SU2	4-11-12	1345	SC	No SU1
56	111	SU2	"	1350	VW	No SU1
57	216	SU2	"	1359	MS	No SU1
58	124	SU4	"	1435	KH	Rep 1 playarea
59	124	SU4	"	1435	KH	Rep 2
60	124	SU4	"	1435	KH	Rep 3
61		Y1	"	1436	PE	Rep1
62		Y1	"	1436	PE	Rep 2
63		Y1	"	1436	PE	Rep 3
64		P1	"	1442	MS	Rep 1
65		P1	"	1442	MS	Rep 2
		P1	"	1442	MS	Rep 3

Release Accept Date 4-13-12

Missouri Department of Natural Resources

Team No.____

COPY

SOIL SAMPLE LOG
Shapiro Brothers Site, Festus, MO

Loc. ID	Sample ID (SU/DU#)	Date Collected	Time Collected	Collector's Name	Comments
124	Y2	4-11-12	1445	JT	Rep 1
124	Y2	"	1445	JT	Rep 2
124	Y2	"	1445	JT	Rep 3
125	SU1 rep1	"	1530	MS	
125	SU1 rep.2	"	1530	MS	
125	SU1 rep.3	"	1530	MS	
125	Y1 rep.1	"	—	MS	
125	Y1 rep.2	"	—	MS	
125	Y1 rep.3	"	—	MS	
125	SU2 rep.1	"	1530		
125	SU2 rep.2	"	1530		
125	SU2 rep.3	"	1530		
125	Y2 rep.1	"	1550	MB	
125	Y2 rep2	"	1550	MB	
125	Y2 rep.3	"	1550	MB	
125	Y3 rep1	"	1600	JWT	
125	Y3 rep.2	"	1600	JWT	
125	Y3 rep.3	"	1600	JWT	
217	SU1	"			
217	SU2	"			
~~217~~					
176	SU 4	"	1605	MS	
176	SU2	"	1620	VW	
222	SU2	4-12-12	0905	VW	
	Street sweepings	4-12-12	0930	MS	Central, Ridge + Woodlawn
221	SU2 Rep1	"	0907	KH	
221	SU2 Rep2	"	0907	KH	
221	SU2 Rep3	"	0907	KH	
224	SU2	"	1010	VW	
161	SU2	4-12-12	1048	SC	
175	SU-1	4-12-12	1100	SC	
175	SU-2	"	1105	SC	

17

Team No.____

	Loc. ID	Sample ID (SU/DU#)	Date Collected	Time Collected	Collector's Name	Comments
33	164	SU-2	4.12.12	11:00	MS	
34	157	SU-2	4/12/12	11:30	SMC	
35	158	SU-2	4/12/12	11:50	SMC	
36	180	SU-2	4/12/12	12:00	VW	
37	159	SU 1	4-12-12	1355	VW	
38	159	SU 2	"	1355	KH	
39	160	SU-1	"	1400	MS	Rep 1
40	160	SU-1	"	1400	MS	Rep 2
41	160	SU-1	"	1400	MS	Rep 3
42	160	SU-2	"	1415	SC	Rep 1
43	160	SU-2	"	1415	SC	Rep 2
44	160	SU-2	"	1415	SC	Rep 3
45	160	Y1 - Rep 1	"	1410	MS	
46	160	Y1 Rep 2	"	1410	MS	
47	160	Y1 Rep 3	"	1410	MS	
48	160	Y2 Rep 1	"	1420	MS	
49	160	Y2 Rep 2	"	1420	MS	
50	160	Y2 Rep 3	"	1420	MS	
51	179	SU2	"	1445	VW	
52	218	SU2	"	1530	VW	
53						
54						
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64						
65						

Release Accept Date 4-13-12

Combined Site Inspection/Removal Site Evaluation Sampling Report

Shapiro Brothers Salvage Yard
Festus, Jefferson County, MO
CAS Order Numbers: 120413006, 120608008, 120112002

DRAFT

Prepared For:

Missouri Department of Natural Resources
Division of Environmental Quality
Hazardous Waste Program

Prepared By:

Missouri Department of Natural Resources
Division of Environmental Quality
Environmental Services Program

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Appendix A – Site Map/Sample Locations Map

Appendix B – Analytical Results

Appendix C –Chain of Custody

Appendix D – Field Notes

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1.0 Introduction

As authorized under the federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986, the Missouri Department of Natural Resources (Department), Hazardous Waste Program (HWP), Site Assessment Unit (SAU), with assistance from the Field Services Unit of the Environmental Services Program (ESP), conducted an Integrated Site Inspection/Removal Site Evaluation (SI/RSE) sampling event at the Shapiro Brothers Salvage Yard in Festus, MO.

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The objectives of this investigation included determining whether the site warrants a removal action and to gather data necessary for the preparation of a preliminary site score under the Hazard Ranking System (HRS). The scope of the investigation included collecting and analyzing surface soil, surface water, sediment, surface dust wipe, and street sweepings samples.

The sampling event was conducted in accordance with the Integrated Site Inspection/Removal Site Evaluation Sampling and Analysis Plan (MDNR 2012).

2.0 Site Information

2.1 Location

The site is located at the intersection of 12th Street and Vine in east-central Festus, MO. It is a rectangular 7-acre area, oriented primarily north-south, along the boundary that separates Festus and Crystal City, MO.

2.2 Description

Shapiro Brothers, Inc. has been used as scrap metal processing and recycling facility since the 1940s. They also offer demolition services, dismantle out of service rail cars, and offer transportation services to their clients for scrap metal materials.

2.3 History/Contaminants of Concern

The primary contaminant of concern is lead based on analysis of soil samples collected at the facility.

3.0 Field Activities

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The sampling event included collection of surface soils at residential yards for which the department gained access. Forty target residential properties were sampled and four residential background properties were sampled. Residential streets that were sampled included Vine Street, Delmar Avenue, N. 9th Street, N. 10th Street, N. 6th Street, Ridge Avenue, Woodland Avenue and Forrest Street in Festus, MO and Kenner Street and 12th Street in Crystal City, MO. Warne Street was originally identified as a background location. However, once on site, one resident came out and said he had seen Shapiro Brothers trucks coming and going down this road, so, Warne Street was abandoned as a background residential location. Two residential properties on this street had been sampled up to that point (Refer to Sampling Locations Map, Appendix A). Background soils samples were also collected from three city parks: West City Park, Billy Pointer Park, and Sunset Park, but these were used for in situ XRF analysis only. (Refer to Section 3.1.1). Surface water and sediment samples were collected near the facility and downstream of the facility to near where the drainage stream enters Plattin Creek. Surface wipe samples were collected on various structural surfaces at some of the background and target residences based on field observations. A 30-increment composite sample was collected from street sweeper debris collected by the City of Festus in areas outside the influence of the facility.

This sample is to be compared with previous samples collected from the Shapiro Brothers street sweepers. All sample locations and descriptions and field notes were recorded on field sheet forms and in a bound field log book. Personnel determined global positioning system (GPS) coordinates of all surface water and sediment sampling locations. GPS locations were not collected at yards since locational data for each parcel is already available from the county tax assessor. Site sketches and in-situ XRF readings at each residence were recorded on the field sheets, and all samples collected were recorded on chain of custody forms. Photographs were taken to document various aspects of the sampling event.

3.1 Sample Collection

DRAFT

Except as otherwise noted, all aspects of sampling were performed using standard operating procedures (SOPs) established within the ESP, Environmental Emergency Response/Field Services Section (EER/FSS) for the collection, preservation, and transport of various media sampled. Modifications to the sampling methods are described below and were made in the field based upon conditions encountered. Any modifications to the methods were noted on the field sheets/log book.

3.1.1 In situ XRF Analysis

The XRF analyzer was calibrated and standardized as per the manufacturer's instruction. Known reference standards containing certified concentrations of lead at various levels were analyzed prior to initiating field work. Results were documented on an XRF data field sheet for each residence. The serial number of the analyzer(s) used at each residence was noted on the field sheet. Prior to XRF analysis, the Location ID, SU, transect, distance & analyst was entered into the XRF analyzer.

The average lot size of the residences selected for sampling is approximately 10,500 ft^2 (~ ¼ acre). An area of this approximate size was established as background DUs in Sunset, West City, and Billy Porter Memorial Parks. Surface soil ICS samples were collected from these areas as described in section 3.1.2 below. The bags of soil from the city park background DUs were manually mixed to homogenize the soil as well as possible, and then XRF analysis was conducted on the soil through each bag 5 times with mixing in between. The average of the 5 readings provided an estimate of the background lead concentration in each background park DU. The lead result for each background DU was averaged, and that value was used as reference for in situ measurements collected at target residences as described below. The collected bags of background soil were returned to the lab for processing and analysis as described in section 3.3.

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Transects were established at each residential property. Each property had from one to four transects depending on its size and orientation. Transects were placed along the roadway for those residences that were along the haul roads or faced Shapiro property. Transects were placed at the rear of the property of those backing up to the Shapiro property. Starting from the edge of the property each distance interval was two feet. At each distance interval, along the transect, the surface vegetation was removed. The soil was flattened out, large debris (rocks sticks) removed, and a 30 second in-situ analysis was performed. The Location ID and SU# was entered into the XRF prior to each analysis. The results were recorded on the field sheet. Two to four additional in situ analyses were conducted at the same distance interval perpendicular to the transect at 2’ spacings. The results were recorded on the field sheet, and the average for each distance interval was calculated.

When a distinct drop was observed in the average lead concentration along a transect, or when observed concentrations were similar to background levels, no further in situ readings were

collected for that transect, and a flag was placed to mark the boundary of the SU for that transect. In situ XRF analyses was conducted along transects set up perpendicular to the road to aid in determining attribution of lead and to help establish the width of SU1. SU2 was comprised of the rest of the property outside of the drip zone. For the drip zone (SU3), the process was repeated (starting at 30 inches from the house), with one transect extending out from each side of the residence to form a polygon around the house considered the "drip zone" of influence from lead-based paint. If the property had a garden or children's play area, in situ analysis was conducted to determine the need for it to be a separate sampling unit. At 18 properties, no SU1 was established for sampling. At these residences, no elevated levels of lead were measured in the transects: therefore the entire yard (minus the drip zone) was sampled as one sampling unit.

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In situ XRF precision was evaluated once per day per XRF analyzer by collecting seven replicate XRF readings at a single location without moving the analyzer.

Trends were observed on the in situ XRF analysis after several residences had been completed along Delmar Avenue. In situ XRF analysis was discontinued and the width of SU1 was set for the remaining properties on Delmar based on previous observations. Typically SU1 was set at two feet.

3.1.2 Surface Soil Sampling

Surface soil ICS samples were collected as follows. An EVS™ or EnviroStat™ stainless steel incremental sampling tool was used to collect approximate equal-mass increments of soil at equal spacing across each SU. Each tool was adjusted to collect a core from 0-2". The sampling core was advanced into the soil and ejected into a 2-gallon size heavy duty sealable plastic bag. This process was repeated at each increment collection location, and all increments were combined together into one bag. Bags were labeled with the Location ID, SU#, date, time, & sampler's initials. 16 increments were collected from SU1, and 30 to 40 increments were

collected from SU2, depending on the size of the property. After the completion of several houses along Vine Street, a trend was observed in the extent of drip zone influences, in-situ XRF analyses was reduced and the drip zone SU size was inferred from previous observations. Five ICS samples were collected from SU3, 16 increments were collected in each. Two children's play areas (SU4) were sampled for further analysis. 16 increments were also collected in this SU.

3.1.3 Lead Paint Analysis

Accessible painted exterior surfaces at two residences (Location IDs 216 and 176) were analyzed for the presence of lead-based paint using an XRF analyzer. Results were recorded on the field sheet. Data from these analyses was used as additional lines of evidence that lead detected in a drip zone is due at least in part to lead paint.

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3.1.4 Surface Wipe Samples

Wipe samples were collected at some residences based on visual observation, proximity to the facility, and weather conditions. Wipe samples were collected using Department of Health and Senior Services (DHSS) provided lead wipes and sample containers. In all instances but one, a large flat surface was identified as a surface to collect a wipe sample (ex. vinyl siding, patio tables, patio chairs, glass surfaces, etc..). A 1 square foot nylon template was used to conduct the wipe sampling. One window sill had a wipe sample collected. The surface area was measured and converted to square feet. No painted surfaces were sampled due to possible influence of lead based paint. The procedures used for wipe sampling are outlined in the DHSS Lead Poison Prevention Manual. Surface wipes were collected on comparable surfaces at both background residences and target residences. One Environmental Lead Analysis Form was completed for each sample collected. Three field blanks (one per day of wipe sampling) were collected for the sampling event. (Refer to DHSS Analysis Forms, Appendix D). The wipe samples were

relinquished to a sample custodian at the state's health laboratory (101 North Chestnut) for analysis on Monday April 16, 2012.

3.1.5 Street Sweepings Sample

The City of Festus provided the Department with access to street sweeper debris collected in roadways located away from the Shapiro facility. A 30-increment composite sample was collected, using a new, clean stainless steel spoon, from equally spaced locations across the collected street sweepings and placed into a resealable bag. This sample is considered a background sample, as a street sweeping sample was collected from a Shapiro Brothers sweeper, used around their facility and along their hauls roads, during a previous sampling event.

DRAFT

3.1.6 Surface Water and Sediment Sampling

Field instruments that were used during water sample collection, included pH, specific conductivity, temperature, oxidation/reduction potential (ORP) dissolved oxygen (DO) and turbidity. The meters were calibrated on-site per manufacturers' specifications.

Surface water grab samples were collected by immersing the sample containers directly into the drainage leading to Plattin Creek in areas where it is accessible. Samples were collected from the north side of the 12th Street bridge, the south side of the 6th Street bridge, and from the south side of the Bailey Road bridge. No upstream location could be identified. The stream is fed from stormwater runoff that drains from the shopping center (underground) north of the Shapiro facility. A background surface water and sediment sample was instead collected from a stream that flowed along the southern boundary of Sunset Park.

Sediment grab samples were collected using clean stainless steel spoons to retrieve sediment from the 0- to 2-inch depth from the bottom of the drainage to Plattin Creek. At each sediment location, 15 increments of approximately 30 grams each were collected along a transect

perpendicular to the drainage. The increments of sediment were transferred to clean aluminum foil pans and the excess water was decanted. The sediment was homogenized and placed into a resealable bag. Surface water samples were collected prior to collecting sediment samples. Sediment samples were collected at the same general locations as surface waters.

3.2 Sampling Order

Sampling began at target residences closest to and worked away from the Shapiro Brothers facility. Regardless of this order; clean, new, dedicated, disposable, or field decontaminated equipment was used for sampling

3.3 Sample Processing and Analysis

DRAFT

Soil samples were sent to the Missouri University of Science and Technology (MST) and air dried. The air dried samples were returned to their original bags, placed inside an additional bag, and then struck with a mallet to disaggregate clumps of soil. The soil sample was passed through a 0.25mm sieve to obtain the target particle size. The soil passing through the sieve was placed inside a thin-walled resealable plastic baggie. The sediment samples were processed, at the ESP lab, in the same fashion as described above. XRF analysis was conducted on the dried/sieved soil and sediment samples following SOP.

3.4 Sample Quantity

The number of samples submitted for laboratory analysis is provided in the following table. Note that samples receiving XRF analysis only, are not included.

Matrix	Analytes	Number of Samples
Soil	Lead, Cadmium, Arsenic	14
Wipes	Lead	15

Surface Water	Lead, Cadmium, Arsenic, Zinc, Copper, Hardness	4
Sediment	Lead, Cadmium, Arsenic, Zinc, Copper	4
Matrix	**Analytes**	**Number of Samples**
Soil	Polychlorinated Biphenyls (PCBs)	1
Soil	Polybrominated Diphenyl Ethers (PBDEs)	1
Soil	Polycyclic Aromatic Hydrocarbons (PAHs), Organochlorine Pesticides	1

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Note that samples were initially collected in large resealable plastic bags for transport to ESP. Once samples have been air dried, disaggregated, sieved, and analyzed by XRF, they were submitted for laboratory analysis. All samples were collected in certified-clean containers and preserved in the field as appropriate.

3.5 Chain-of-Custody

The ICS soil samples were stored in the plastic bags in which they were collected. Each bag was labeled with a unique DU identifier, date, collector initials, and depth using permanent marker. The samples were recorded on a separate COC form. The samples were turned over to MST University for processing and were returned for XRF analysis. The sediment samples remained in ESP custody for processing and XRF analysis. Those samples identified for laboratory

analysis were placed into appropriate sample containers and entered onto an ESP COC form and relinquished to a sample custodian at the state's environmental laboratory for analysis.

4.0 Quality Control

4.1 Field Decontamination

Clean disposable latex gloves were worn by sampling personnel and clean or field decontaminated equipment was utilized for each separate DU to minimize the possibility of cross-contamination. Reuseable soil sampling equipment was cleaned between DUs as follows:

- Brushing with stiff-bristle nylon brush to remove visible soil debris;
- Washing with a solution of Simple Green cleaner
- Rinsing tool with DI water;
- Wiping dry with clean paper towels

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4.2 Quality Assurance/Quality Control (QA/QC) Samples

The following samples were collected as part of the quality control/quality assurance procedures for the investigation.

4.2.1 Equipment Rinsate Blank

Four equipment rinsate blanks were collected after decontaminating the soil coring tool between DUs, once per day of soil sampling. Following decontamination of the ICS tool, deionized water was rinsed over the core cylinder and into a sample container which traveled with the other samples back to the laboratory for analysis.

4.2.2 Replicate Field ICS

Replicate ICS were collected to measure precision of the overall soil sampling and analysis process, and to provide data for calculating upper confidence limits. At a rate of approximately 20% of the total SUs, a total of three ICS were collected in an identical manner, except the

increment locations were offset as much as possible from each within the SU. The replicate samples were labeled with the SU name and "replicate 1", "replicate 2", and "replicate 3". SUs were chosen for replicate sampling based on the proximity of the yard to the facility, in situ XRF results, and other field observations. Replicate ICS were collected at eleven properties. An effort was made to conduct replicate sampling at residences both near the facility and further away along haul routes. Replicate sampling was conducted at one of the background residences.

4.2.3 XRF Precision Samples

The precision of bagged sample XRF analyses was evaluated by conducting multiple analyses of selected samples at a frequency of 5% for bagged sample analysis and once per day per analyzer for in situ analysis. For bagged samples, the precision samples were selected based on lead concentrations. Samples were chosen to reflect the full range of concentrations observed, however, special emphasis was placed on selecting samples near the screening levels if possible. The selected samples were analyzed seven separate times without moving the bagged sample (without moving the analyzer for in situ analysis) between each analysis. The relative standard deviation among the multiple analyses was assessed as an indication of instrument precision.

4.2.4 Laboratory Subsampling Replicates

Laboratory subsample replicates were requested on selected ICS samples submitted to the laboratory. However, due to an oversight, the laboratory did not conduct the subsampling replicates.

5.0 Investigation Derived Wastes (IDW) Plan

Efforts were made to minimize IDW generation. Disposable PPE and disposable sampling equipment was handled as solid waste, containerized, and properly disposed. Wash and rinse waters generated during equipment decontamination were discharged to the ground on-site.

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6.0 Site Safety

A safety briefing was held on-site prior to initiating field activities and field personnel were required to read and sign the site-specific health and safety plan.

7.0 Reporting

Please refer to Appendix B for analytical results of samples collected.

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SIGNATURES

Sean Counihan
Environmental Specialist
Field Services Unit
Environmental Services Program

Prepared by: _____

DRAFT

Eric Sappington
Chief
Field Services Unit
Environmental Services Program

Approved by: _____

BA:smc

C: Michael Stroh, HWP

APPENDIX A

Site Map/Sample Locations Map

Shapiro Brothers Salvage Yard Site

Festus, Jefferson County, MO

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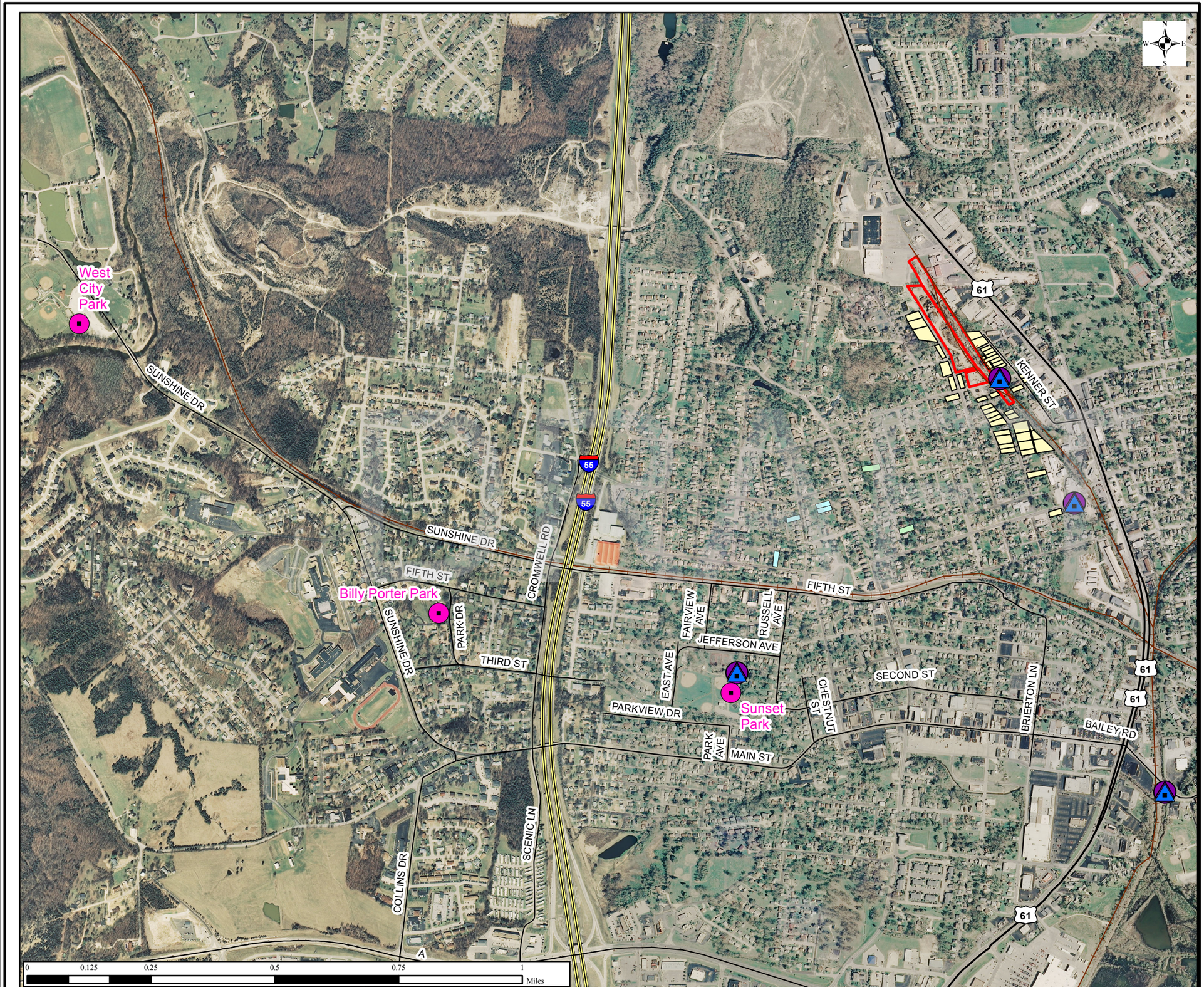
Sample Location Map
Surface Water, Sediment and Park Background Soil Samples
Shapiro Brothers Salvage Site
9th & Delmar
Festus, MO
Jefferson County



Legend

- Park Soil Background
- Surface Water Sample
- Sediment Sample
- Shapiro Brothers Salvage Yard
- Sampled Target Residence
- Sampled Background Residence
- Sampled, Not Analyzed
- Railroad

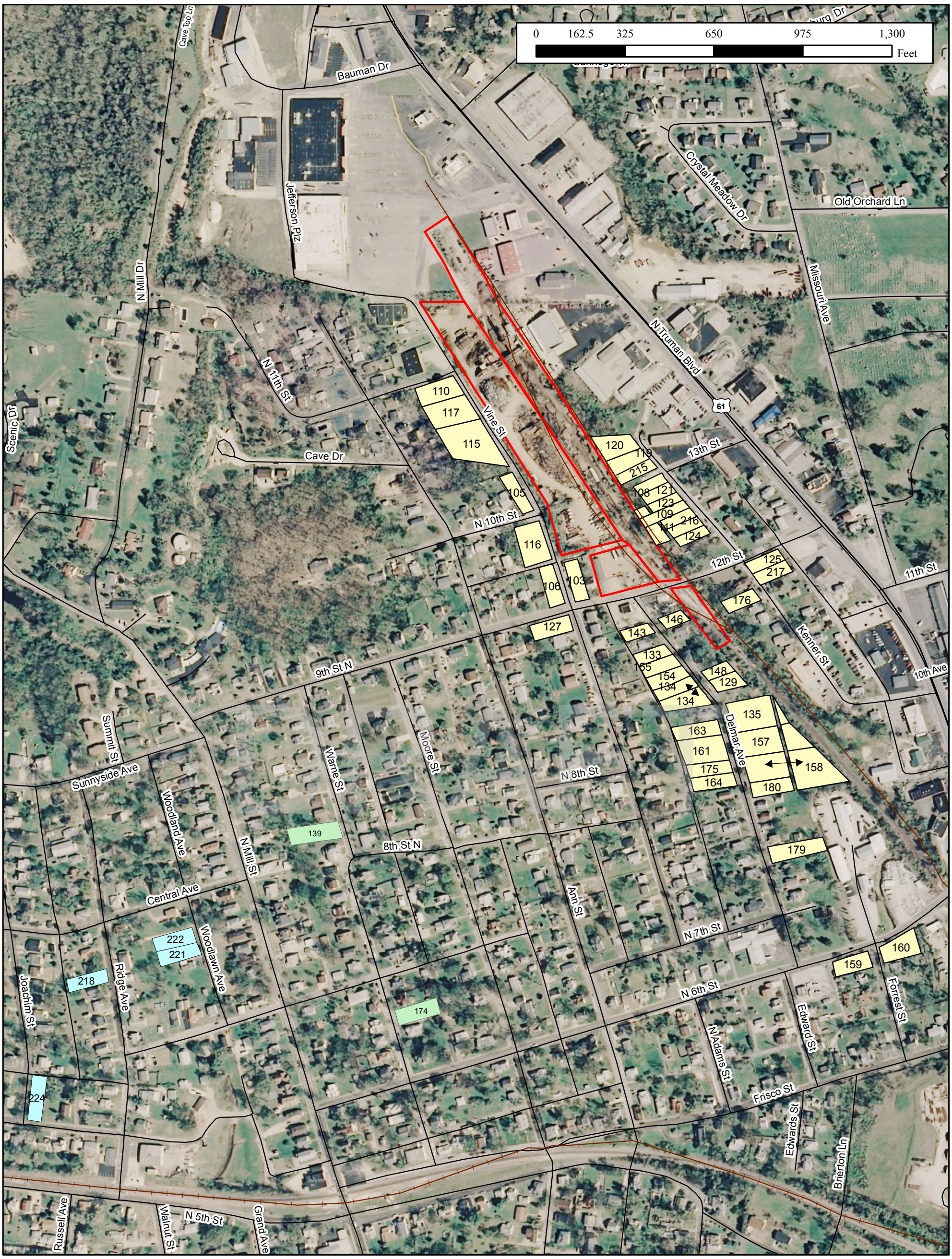
Created on: April 24, 2012 by Shelly Jackson
This map is located at M/Superfund/Shapiro Brothers/Sample_Location_Map_Background.mxd

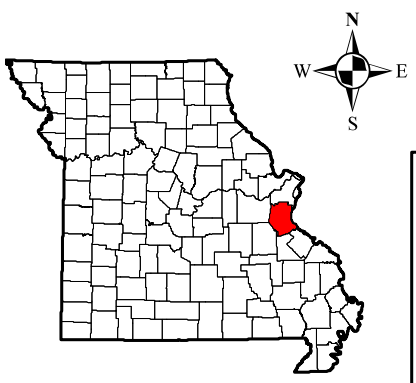
Base Map: 2007 Missouri State Leaf-Off Imagery Program.
Flight Date: 2007

Additional Layers: Missouri Department of Transportation, U.S. Census Bureau.

Although data sets used to create this map have been compiled by the Missouri Department of Natural Resources, no warranty, expressed or implied, is made by the department as to the accuracy of the data and related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the department in the use of these data or related materials.

Missouri Department of Natural Resources
Division of Environmental Quality
Hazardous Waste Program





Sample Location Map Residential Yards
Shapiro Brothers Salvage Site
9th & Delmar
Festus, Jefferson County, MO

Legend

- Shapiro Brothers Salvage Yard
- Road
- Railroad
- Sampled Target Residence
- Sampled Background Residence
- Sampled, Not Analyzed

Created on: April 24, 2012 by Shelly Jackson
This map is located at M/Superfund/Shapiro Brothers/Sample_Location_Map_Residences.mxd

Base Map: 2007 Missouri State Leaf-Off Imagery Program.
Flight Date: 2007

Additional Layers: Missouri Department of Transportation, U.S. Census Bureau.

Although data sets used to create this map have been compiled by the Missouri Department of Natural Resources, no warranty, expressed or implied, is made by the department as to the accuracy of the data and related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the department in the use of these data or related materials.

Missouri Department of Natural Resources
Division of Environmental Quality
Hazardous Waste Program

APPENDIX B

Analytical Results

Shapiro Brothers Salvage Yard Site

Festus, Jefferson County, MO

DRAFT

Missouri Department of Natural Resources
Environmental Services Program

Order ID 120112002 **Program, Contact:** HWP Julieann Warren

Report Date: 03/15/2012 **LDPR/JobCode:** FEPA5 / NJ12SHAP

Sample: AB65031

Customer #: 1201152

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN **Affiliation:** ESP **Collect Date:** 1/11/2012 10:55:00AM
Entry Point:
Sample Comment: Composite, Sample #1201152, collected from sediment/soil stored in Super Sacks from truck wash station, TW 1-4 and new sack being filled.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	1,2,4-Trichlorobenzene	<595	09, ND	µg/kg	14,507	8270C
BNAs	1,2-Dichlorobenzene	<595	09, ND	µg/kg	14,507	8270C
BNAs	1,3-Dichlorobenzene	<595	09, ND	µg/kg	14,507	8270C
BNAs	1,4-Dichlorobenzene	<595	09, ND	µg/kg	14,507	8270C
BNAs	2,4,5-Trichlorophenol	<595	09, ND	µg/kg	14,507	8270C
BNAs	2,4,6-Trichlorophenol	<1190	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dichlorophenol	<595	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dimethylphenol	<595	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrophenol	<5950	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrotoluene	<2380	09, ND	µg/kg	14,507	8270C
BNAs	2,6-Dinitrotoluene	<595	09, ND	µg/kg	14,507	8270C
BNAs	2-Chloronaphthalene	<1190	09, ND	µg/kg	14,507	8270C
BNAs	2-Chlorophenol	<595	09, ND	µg/kg	14,507	8270C
BNAs	2-Methyl-4,6-dinitrophenol	<2380	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylnaphthalene	<595	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylphenol	<595	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitroaniline	<595	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitrophenol	<595	09, ND	µg/kg	14,507	8270C
BNAs	3,3-Dichlorobenzidine	<595	09, ND	µg/kg	14,507	8270C
BNAs	3-Nitroaniline	<595	09, ND	µg/kg	14,507	8270C
BNAs	4-Bromophenyl phenyl ether	<595	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloro-3-methylphenol	<595	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloroaniline	<595	09, ND	µg/kg	14,507	8270C
BNAs	4-Chlorophenyl phenyl ether	<1190	09, ND	µg/kg	14,507	8270C
BNAs	4-Methylphenol	<1190	09, ND	µg/kg	14,507	8270C

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Sample: AB65031

Customer #: 1201152

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 10:55:00AM
Entry Point:
Sample Comment: Composite, Sample #1201152, collected from sediment/soil stored in Super Sacks from truck wash station, TW 1-4 and new sack being filled.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	4-Nitroaniline	<595	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitrophenol	<1190	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthylene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Anthracene	<595	09, ND	µg/kg	14,507	8270C
BNAs	azobenzene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)anthracene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)pyrene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(b)fluoranthene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(ghi)perylene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(k)fluoranthene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Benzoic Acid	<1190	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethoxy)methane	<2380	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethyl)ether	<595	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-chloroisopropyl)ether	<595	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Ethylhexyl) phthalate	<1190	09, ND	µg/kg	14,507	8270C
BNAs	Butyl benzyl phthalate	<1190	09, ND	µg/kg	14,507	8270C
BNAs	Chrysene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzo(a,h)anthracene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzofuran	<595	09, ND	µg/kg	14,507	8270C
BNAs	Diethyl phthalate	<2380	09, ND	µg/kg	14,507	8270C
BNAs	Dimethyl phthalate	<595	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-butyl phthalate	<595	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-octyl phthalate	<595	09, ND	µg/kg	14,507	8270C
BNAs	Fluoranthene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Fluorene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobenzene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobutadiene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorocyclopentadiene	<1190	09, ND	µg/kg	14,507	8270C
BNAs	Hexachloroethane	<595	09, ND	µg/kg	14,507	8270C
BNAs	Indeno(1,2,3-cd)pyrene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Isophorone	<595	09, ND	µg/kg	14,507	8270C
BNAs	Naphthalene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Nitrobenzene	<595	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitroso-di-n-propylamine	<595	09, ND	µg/kg	14,507	8270C

DRAFT

Sample: AB65031

Customer #: 1201152

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 10:55:00AM
Entry Point:
Sample Comment: Composite, Sample #1201152, collected from sediment/soil stored in Super Sacks from truck wash station, TW 1-4 and new sack being filled.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	n-Nitrosodiphenylamine	<5950	09, ND	µg/kg	14,507	8270C
BNAs	Pentachlorophenol	<595	09, ND	µg/kg	14,507	8270C
BNAs	Phenanthrene	<595	09, ND	µg/kg	14,507	8270C
BNAs	Phenol	<595	09, ND	µg/kg	14,507	8270C
BNAs	Pyrene	<595	09, ND	µg/kg	14,507	8270C
Organochlorine Pesticides	4,4-DDD	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDE	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDT	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Aldrin	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	alpha-BHC	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	beta-BHC	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Chlordane	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	delta-BHC	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Dieldrin	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan I	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan II	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan sulfate	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin aldehyde	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	gamma-BHC (Lindane)	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor Epoxide	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Methoxychlor	<60	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Toxaphene	<600	ND	µg/kg	14,590	8081A
PCBs	Aroclor 1016 (PCB-1016)	<119	ND	µg/kg	14,502	8082
PCBs	Aroclor 1221 (PCB-1221)	<119	ND	µg/kg	14,502	8082
PCBs	Aroclor 1232 (PCB-1232)	<119	ND	µg/kg	14,502	8082
PCBs	Aroclor 1242 (PCB-1242)	686		µg/kg	14,502	8082
PCBs	Aroclor 1248 (PCB-1248)	<119	ND	µg/kg	14,502	8082
PCBs	Aroclor 1254 (PCB-1254)	<119	ND	µg/kg	14,502	8082
PCBs	Aroclor 1260 (PCB-1260)	<119	ND	µg/kg	14,502	8082
Percent Moisture	Percent Moisture	16.1		%	14,579	Infrared Drying

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Sample: AB65032

Customer #: 1201154

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 11:30:00AM
Entry Point:
Sample Comment: Composite, Sample #1201154, collected from sediment/soil stored in Super Sacks from truck wash station, Tw 5-8

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	1,2,4-Trichlorobenzene	<620	09, ND	µg/kg	14,507	8270C
BNAs	1,2-Dichlorobenzene	<620	09, ND	µg/kg	14,507	8270C
BNAs	1,3-Dichlorobenzene	<620	09, ND	µg/kg	14,507	8270C
BNAs	1,4-Dichlorobenzene	<620	09, ND	µg/kg	14,507	8270C
BNAs	2,4,5-Trichlorophenol	<620	09, ND	µg/kg	14,507	8270C
BNAs	2,4,6-Trichlorophenol	<1240	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dichlorophenol	<620	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dimethylphenol	<620	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrophenol	<6200	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrotoluene	<2480	09, ND	µg/kg	14,507	8270C
BNAs	2,6-Dinitrotoluene	<620	09, ND	µg/kg	14,507	8270C
BNAs	2-Chloronaphthalene	<1240	09, ND	µg/kg	14,507	8270C
BNAs	2-Chlorophenol	<620	09, ND	µg/kg	14,507	8270C
BNAs	2-Methyl-4,6-dinitrophenol	<2480	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylnaphthalene	<620	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylphenol	<620	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitroaniline	<620	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitrophenol	<620	09, ND	µg/kg	14,507	8270C
BNAs	3,3-Dichlorobenzidine	<620	09, ND	µg/kg	14,507	8270C
BNAs	3-Nitroaniline	<620	09, ND	µg/kg	14,507	8270C
BNAs	4-Bromophenyl phenyl ether	<620	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloro-3-methylphenol	<620	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloroaniline	<620	09, ND	µg/kg	14,507	8270C
BNAs	4-Chlorophenyl phenyl ether	<1240	09, ND	µg/kg	14,507	8270C
BNAs	4-Methylphenol	<1240	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitroaniline	<620	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitrophenol	<1240	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthene	<620	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthylene	<620	09, ND	µg/kg	14,507	8270C
BNAs	Anthracene	<620	09, ND	µg/kg	14,507	8270C
BNAs	azobenzene	<620	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)anthracene	<620	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)pyrene	<620	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(b)fluoranthene	<620	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(ghi)perylene	<620	09, ND	µg/kg	14,507	8270C

DRAFT

Sample: AB65032

Customer #: 1201154

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 11:30:00AM
Entry Point:
Sample Comment: Composite, Sample #1201154, collected from sediment/soil stored in Super Sacks from truck wash station, Tw 5-8

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	Benzo(k)fluoranthene	<620	09, ND	µg/kg	14,507	8270C
BNAs	Benzoic Acid	<1240	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethoxy)methane	<2480	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethyl)ether	<620	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-chloroisopropyl)ether	<620	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Ethylhexyl) phthalate	<1240	09, ND	µg/kg	14,507	8270C
BNAs	Butyl benzyl phthalate	<1240	09, ND	µg/kg	14,507	8270C
BNAs	Chrysene	<620	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzo(a,h)anthracene	<620	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzofuran	<620	09, ND	µg/kg	14,507	8270C
BNAs	Diethyl phthalate	<2480	09, ND	µg/kg	14,507	8270C
BNAs	Dimethyl phthalate	<620	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-butyl phthalate	<620	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-octyl phthalate	<620	09, ND	µg/kg	14,507	8270C
BNAs	Fluoranthene	<620	09, ND	µg/kg	14,507	8270C
BNAs	Fluorene	<620	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobenzene	<620	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobutadiene	<620	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorocyclopentadiene	<1240	09, ND	µg/kg	14,507	8270C
BNAs	Hexachloroethane	<620	09, ND	µg/kg	14,507	8270C
BNAs	Indeno(1,2,3-cd)pyrene	<620	09, ND	µg/kg	14,507	8270C
BNAs	Isophorone	<620	09, ND	µg/kg	14,507	8270C
BNAs	Naphthalene	<620	09, ND	µg/kg	14,507	8270C
BNAs	Nitrobenzene	<620	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitroso-di-n-propylamine	<620	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitrosodiphenylamine	<6200	09, ND	µg/kg	14,507	8270C
BNAs	Pentachlorophenol	<620	09, ND	µg/kg	14,507	8270C
BNAs	Phenanthrene	<620	09, ND	µg/kg	14,507	8270C
BNAs	Phenol	<620	09, ND	µg/kg	14,507	8270C
BNAs	Pyrene	<620	09, ND	µg/kg	14,507	8270C
Organochlorine Pesticides	4,4-DDD	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDE	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDT	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Aldrin	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	alpha-BHC	<62	ND	µg/kg	14,590	8081A

DRAFT

Sample: AB65032

Customer #: 1201154

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 11:30:00AM
Entry Point:
Sample Comment: Composite, Sample #1201154, collected from sediment/soil stored in Super Sacks from truck wash station, Tw 5-8

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Organochlorine Pesticides	beta-BHC	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Chlordane	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	delta-BHC	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Dieldrin	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan I	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan II	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan sulfate	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin aldehyde	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	gamma-BHC (Lindane)	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor Epoxide	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Methoxychlor	<62	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Toxaphene	2500		µg/kg	14,590	8081A
PCBs	Aroclor 1016 (PCB-1016)	<124	ND	µg/kg	14,502	8082
PCBs	Aroclor 1221 (PCB-1221)	<124	ND	µg/kg	14,502	8082
PCBs	Aroclor 1232 (PCB-1232)	<124	ND	µg/kg	14,502	8082
PCBs	Aroclor 1242 (PCB-1242)	<124	ND	µg/kg	14,502	8082
PCBs	Aroclor 1248 (PCB-1248)	<124	ND	µg/kg	14,502	8082
PCBs	Aroclor 1254 (PCB-1254)	<124	ND	µg/kg	14,502	8082
PCBs	Aroclor 1260 (PCB-1260)	<124	ND	µg/kg	14,502	8082
Percent Moisture	Percent Moisture	19.1		%	14,579	Infrared Drying

DRAFT

Sample: AB65033

Customer #: 1201156

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 11:00:00AM
Entry Point:
Sample Comment: Composite sample # 1201156, Collected from sediment/soil stored in Super Sacks from truck wash station, TW 9-12.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	1,2,4-Trichlorobenzene	<565	09, ND	µg/kg	14,507	8270C
BNAs	1,2-Dichlorobenzene	<565	09, ND	µg/kg	14,507	8270C
BNAs	1,3-Dichlorobenzene	<565	09, ND	µg/kg	14,507	8270C
BNAs	1,4-Dichlorobenzene	<565	09, ND	µg/kg	14,507	8270C

Sample: AB65033

Customer #: 1201156

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 11:00:00AM
Entry Point:
Sample Comment: Composite sample # 1201156, Collected from sediment/soil stored in Super Sacks from truck wash station, TW 9-12.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	2,4,5-Trichlorophenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	2,4,6-Trichlorophenol	<1130	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dichlorophenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dimethylphenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrophenol	<5650	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrotoluene	<2260	09, ND	µg/kg	14,507	8270C
BNAs	2,6-Dinitrotoluene	<565	09, ND	µg/kg	14,507	8270C
BNAs	2-Chloronaphthalene	<1130	09, ND	µg/kg	14,507	8270C
BNAs	2-Chlorophenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	2-Methyl-4,6-dinitrophenol	<2260	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylnaphthalene	<565	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylphenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitroaniline	<565	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitrophenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	3,3-Dichlorobenzidine	<565	09, ND	µg/kg	14,507	8270C
BNAs	3-Nitroaniline	<565	09, ND	µg/kg	14,507	8270C
BNAs	4-Bromophenyl phenyl ether	<565	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloro-3-methylphenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloroaniline	<565	09, ND	µg/kg	14,507	8270C
BNAs	4-Chlorophenyl phenyl ether	<1130	09, ND	µg/kg	14,507	8270C
BNAs	4-Methylphenol	<1130	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitroaniline	<565	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitrophenol	<1130	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthylene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Anthracene	<565	09, ND	µg/kg	14,507	8270C
BNAs	azobenzene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)anthracene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)pyrene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(b)fluoranthene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(ghi)perylene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(k)fluoranthene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Benzoic Acid	<1130	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethoxy)methane	<2260	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethyl)ether	<565	09, ND	µg/kg	14,507	8270C

DRAFT

Sample: AB65033

Customer #: 1201156

Facility ID:
County: Jefferson
Collector: SEAN COUNIHAN
Entry Point:
Sample Comment: Composite sample # 1201156, Collected from sediment/soil stored in Super Sacks from truck wash station, TW 9-12.

Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Affiliation: ESP
Collect Date: 1/11/2012 11:00:00AM

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	bis(2-chloroisopropyl)ether	<565	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Ethylhexyl) phthalate	1600	09, 05	µg/kg	14,507	8270C
BNAs	Butyl benzyl phthalate	<1130	09, ND	µg/kg	14,507	8270C
BNAs	Chrysene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzo(a,h)anthracene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzofuran	<565	09, ND	µg/kg	14,507	8270C
BNAs	Diethyl phthalate	<2260	09, ND	µg/kg	14,507	8270C
BNAs	Dimethyl phthalate	<565	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-butyl phthalate	<565	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-octyl phthalate	<565	09, ND	µg/kg	14,507	8270C
BNAs	Fluoranthene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Fluorene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobenzene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobutadiene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorocyclopentadiene	<1130	09, ND	µg/kg	14,507	8270C
BNAs	Hexachloroethane	<565	09, ND	µg/kg	14,507	8270C
BNAs	Indeno(1,2,3-cd)pyrene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Isophorone	<565	09, ND	µg/kg	14,507	8270C
BNAs	Naphthalene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Nitrobenzene	<565	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitroso-di-n-propylamine	<565	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitrosodiphenylamine	<5650	09, ND	µg/kg	14,507	8270C
BNAs	Pentachlorophenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	Phenanthrene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Phenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	Pyrene	<565	09, ND	µg/kg	14,507	8270C
Organochlorine Pesticides	4,4-DDD	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDE	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDT	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Aldrin	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	alpha-BHC	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	beta-BHC	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Chlordane	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	delta-BHC	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Dieldrin	<56.5	ND	µg/kg	14,590	8081A

DRAFT

Sample: AB65033

Customer #: 1201156

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 11:00:00AM
Entry Point:
Sample Comment: Composite sample # 1201156, Collected from sediment/soil stored in Super Sacks from truck wash station, TW 9-12.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Organochlorine Pesticides	Endosulfan I	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan II	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan sulfate	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin aldehyde	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	gamma-BHC (Lindane)	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor Epoxide	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Methoxychlor	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Toxaphene	<565	ND	µg/kg	14,590	8081A
PCBs	Aroclor 1016 (PCB-1016)	<113	ND	µg/kg	14,502	8082
PCBs	Aroclor 1221 (PCB-1221)	<113	ND	µg/kg	14,502	8082
PCBs	Aroclor 1232 (PCB-1232)	<113	ND	µg/kg	14,502	8082
PCBs	Aroclor 1242 (PCB-1242)	559	ND	µg/kg	14,502	8082
PCBs	Aroclor 1248 (PCB-1248)	<113	ND	µg/kg	14,502	8082
PCBs	Aroclor 1254 (PCB-1254)	<113	ND	µg/kg	14,502	8082
PCBs	Aroclor 1260 (PCB-1260)	<113	ND	µg/kg	14,502	8082
Percent Moisture	Percent Moisture	11.9		%	14,579	Infrared Drying

DRAFT

Sample: AB65034

Customer #: 1201158

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 11:35:00AM
Entry Point:
Sample Comment: Composite, Sample #1201158, collected from sediment/soil in Super Sacks from street sweepings, SS. A, B, C, D

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	1,2,4-Trichlorobenzene	<570	09, ND	µg/kg	14,507	8270C
BNAs	1,2-Dichlorobenzene	<570	09, ND	µg/kg	14,507	8270C
BNAs	1,3-Dichlorobenzene	<570	09, ND	µg/kg	14,507	8270C
BNAs	1,4-Dichlorobenzene	<570	09, ND	µg/kg	14,507	8270C
BNAs	2,4,5-Trichlorophenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	2,4,6-Trichlorophenol	<1140	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dichlorophenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dimethylphenol	<570	09, ND	µg/kg	14,507	8270C

Sample: AB65034

Customer #: 1201158

Facility ID:
County: Jefferson
Collector: SEAN COUNIHAN
Entry Point:
Sample Comment: Composite, Sample #1201158, collected from sediment/soil in Super Sacks from street sweepings, SS. A, B, C, D

Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Affiliation: ESP
Collect Date: 1/11/2012 11:35:00AM

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	2,4-Dinitrophenol	<5700	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrotoluene	<2280	09, ND	µg/kg	14,507	8270C
BNAs	2,6-Dinitrotoluene	<570	09, ND	µg/kg	14,507	8270C
BNAs	2-Chloronaphthalene	<1140	09, ND	µg/kg	14,507	8270C
BNAs	2-Chlorophenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	2-Methyl-4,6-dinitrophenol	<2280	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylnaphthalene	<570	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylphenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitroaniline	<570	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitrophenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	3,3-Dichlorobenzidine	<570	09, ND	µg/kg	14,507	8270C
BNAs	3-Nitroaniline	<570	09, ND	µg/kg	14,507	8270C
BNAs	4-Bromophenyl phenyl ether	<570	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloro-3-methylphenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloroaniline	<570	09, ND	µg/kg	14,507	8270C
BNAs	4-Chlorophenyl phenyl ether	<1140	09, ND	µg/kg	14,507	8270C
BNAs	4-Methylphenol	<1140	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitroaniline	<570	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitrophenol	<1140	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthylene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Anthracene	<570	09, ND	µg/kg	14,507	8270C
BNAs	azobenzene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)anthracene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)pyrene	577	09, 05	µg/kg	14,507	8270C
BNAs	Benzo(b)fluoranthene	592	09, 05	µg/kg	14,507	8270C
BNAs	Benzo(ghi)perylene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(k)fluoranthene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Benzoic Acid	<1140	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethoxy)methane	<2280	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethyl)ether	<570	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-chloroisopropyl)ether	<570	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Ethylhexyl) phthalate	1940	09, 05	µg/kg	14,507	8270C
BNAs	Butyl benzyl phthalate	<1140	09, ND	µg/kg	14,507	8270C
BNAs	Chrysene	686	09, 05	µg/kg	14,507	8270C

DRAFT

120112002

Sample: AB65034

Customer #: 1201158

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 11:35:00AM
Entry Point:
Sample Comment: Composite, Sample #1201158, collected from sediment/soil in Super Sacks from street sweepings, SS. A, B, C, D

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	Dibenzo(a,h)anthracene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzofuran	<570	09, ND	µg/kg	14,507	8270C
BNAs	Diethyl phthalate	<2280	09, ND	µg/kg	14,507	8270C
BNAs	Dimethyl phthalate	<570	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-butyl phthalate	994	09, 05	µg/kg	14,507	8270C
BNAs	Di-n-octyl phthalate	<570	09, ND	µg/kg	14,507	8270C
BNAs	Fluoranthene	1620	09	µg/kg	14,507	8270C
BNAs	Fluorene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobenzene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobutadiene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorocyclopentadiene	<1140	09, ND	µg/kg	14,507	8270C
BNAs	Hexachloroethane	<570	09, ND	µg/kg	14,507	8270C
BNAs	Indeno(1,2,3-cd)pyrene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Isophorone	<570	09, ND	µg/kg	14,507	8270C
BNAs	Naphthalene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Nitrobenzene	<570	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitroso-di-n-propylamine	<570	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitrosodiphenylamine	<5700	09, ND	µg/kg	14,507	8270C
BNAs	Pentachlorophenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	Phenanthrene	688	09, 05	µg/kg	14,507	8270C
BNAs	Phenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	Pyrene	1240	09	µg/kg	14,507	8270C
Organochlorine Pesticides	4,4-DDD	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDE	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDT	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Aldrin	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	alpha-BHC	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	beta-BHC	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Chlordane	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	delta-BHC	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Dieldrin	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan I	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan II	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan sulfate	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin	<57	ND	µg/kg	14,590	8081A

DRAFT

Sample: AB65034

Customer #: 1201158

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 11:35:00AM
Entry Point:
Sample Comment: Composite, Sample #1201158, collected from sediment/soil in Super Sacks from street sweepings, SS. A, B, C, D

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Organochlorine Pesticides	Endrin aldehyde	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	gamma-BHC (Lindane)	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor Epoxide	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Methoxychlor	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Toxaphene	<570	ND	µg/kg	14,590	8081A
PCBs	Aroclor 1016 (PCB-1016)	<114	ND	µg/kg	14,502	8082
PCBs	Aroclor 1221 (PCB-1221)	<114	ND	µg/kg	14,502	8082
PCBs	Aroclor 1232 (PCB-1232)	<114	ND	µg/kg	14,502	8082
PCBs	Aroclor 1242 (PCB-1242)	371	ND	µg/kg	14,502	8082
PCBs	Aroclor 1248 (PCB-1248)	<114	ND	µg/kg	14,502	8082
PCBs	Aroclor 1254 (PCB-1254)	<114	ND	µg/kg	14,502	8082
PCBs	Aroclor 1260 (PCB-1260)	<114	ND	µg/kg	14,502	8082
Percent Moisture	Percent Moisture	12.5		%	14,579	Infrared Drying

DRAFT

Sample: AB65035

Customer #: 1201160

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 11:55:00AM
Entry Point:
Sample Comment: Composite, Sample #1201160, Surface soil collected from north end of the old railroad spur on east side of property.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	1,2,4-Trichlorobenzene	<725	09, ND	µg/kg	14,507	8270C
BNAs	1,2-Dichlorobenzene	<725	09, ND	µg/kg	14,507	8270C
BNAs	1,3-Dichlorobenzene	<725	09, ND	µg/kg	14,507	8270C
BNAs	1,4-Dichlorobenzene	<725	09, ND	µg/kg	14,507	8270C
BNAs	2,4,5-Trichlorophenol	<725	09, ND	µg/kg	14,507	8270C
BNAs	2,4,6-Trichlorophenol	<1450	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dichlorophenol	<725	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dimethylphenol	<725	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrophenol	<7250	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrotoluene	<2900	09, ND	µg/kg	14,507	8270C
BNAs	2,6-Dinitrotoluene	<725	09, ND	µg/kg	14,507	8270C
BNAs	2-Chloronaphthalene	<1450	09, ND	µg/kg	14,507	8270C

Sample: AB65035

Customer #: 1201160

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 11:55:00AM
Entry Point:
Sample Comment: Composite, Sample #1201160, Surface soil collected from north end of the old railroad spur on east side of property.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	2-Chlorophenol	<725	09, ND	µg/kg	14,507	8270C
BNAs	2-Methyl-4,6-dinitrophenol	<2900	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylnaphthalene	<725	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylphenol	<725	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitroaniline	<725	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitrophenol	<725	09, ND	µg/kg	14,507	8270C
BNAs	3,3-Dichlorobenzidine	<725	09, ND	µg/kg	14,507	8270C
BNAs	3-Nitroaniline	<725	09, ND	µg/kg	14,507	8270C
BNAs	4-Bromophenyl phenyl ether	<725	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloro-3-methylphenol	753	09, 05	µg/kg	14,507	8270C
BNAs	4-Chloroaniline	<725	09, ND	µg/kg	14,507	8270C
BNAs	4-Chlorophenyl phenyl ether	<1450	09, ND	µg/kg	14,507	8270C
BNAs	4-Methylphenol	<1450	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitroaniline	<725	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitrophenol	<1450	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthene	<725	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthylene	<725	09, ND	µg/kg	14,507	8270C
BNAs	Anthracene	<725	09, ND	µg/kg	14,507	8270C
BNAs	azobenzene	<725	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)anthracene	<725	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)pyrene	<725	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(b)fluoranthene	<725	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(ghi)perylene	<725	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(k)fluoranthene	<725	09, ND	µg/kg	14,507	8270C
BNAs	Benzoic Acid	<1450	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethoxy)methane	<2900	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethyl)ether	<725	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-chloroisopropyl)ether	<725	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Ethylhexyl) phthalate	5930	09	µg/kg	14,507	8270C
BNAs	Butyl benzyl phthalate	<1450	09, ND	µg/kg	14,507	8270C
BNAs	Chrysene	<725	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzo(a,h)anthracene	<725	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzofuran	<725	09, ND	µg/kg	14,507	8270C
BNAs	Diethyl phthalate	<2900	09, ND	µg/kg	14,507	8270C
BNAs	Dimethyl phthalate	24800	09	µg/kg	14,507	8270C

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Sample: AB65035

Customer #: 1201160

Facility ID:
County: Jefferson
Collector: SEAN COUNIHAN
Entry Point:
Sample Comment: Composite, Sample #1201160, Surface soil collected from north end of the old railroad spur on east side of property.

Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Affiliation: ESP
Collect Date: 1/11/2012 11:55:00AM

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	Di-n-butyl phthalate	<725	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-octyl phthalate	<725	09, ND	µg/kg	14,507	8270C
BNAs	Fluoranthene	948	09, 05	µg/kg	14,507	8270C
BNAs	Fluorene	<725	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobenzene	<725	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobutadiene	<725	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorocyclopentadiene	<1450	09, ND	µg/kg	14,507	8270C
BNAs	Hexachloroethane	<725	09, ND	µg/kg	14,507	8270C
BNAs	Indeno(1,2,3-cd)pyrene	<725	09, ND	µg/kg	14,507	8270C
BNAs	Isophorone	<725	09, ND	µg/kg	14,507	8270C
BNAs	Naphthalene	<725	09, ND	µg/kg	14,507	8270C
BNAs	Nitrobenzene	<725	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitroso-di-n-propylamine	<725	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitrosodiphenylamine	<7250	09, ND	µg/kg	14,507	8270C
BNAs	Pentachlorophenol	<725	09, ND	µg/kg	14,507	8270C
BNAs	Phenanthrene	<725	09, ND	µg/kg	14,507	8270C
BNAs	Phenol	788	09, 05	µg/kg	14,507	8270C
BNAs	Pyrene	834	09, 05	µg/kg	14,507	8270C
Organochlorine Pesticides	4,4-DDD	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDE	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDT	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Aldrin	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	alpha-BHC	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	beta-BHC	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Chlordane	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	delta-BHC	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Dieldrin	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan I	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan II	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan sulfate	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin aldehyde	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	gamma-BHC (Lindane)	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor Epoxide	<72.5	ND	µg/kg	14,590	8081A

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Sample: AB65035

Customer #: 1201160

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 11:55:00AM
Entry Point:
Sample Comment: Composite, Sample #1201160, Surface soil collected from north end of the old railroad spur on east side of property.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Organochlorine Pesticides	Methoxychlor	<72.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Toxaphene	<725	ND	µg/kg	14,590	8081A
PCBs	Aroclor 1016 (PCB-1016)	<145	ND	µg/kg	14,502	8082
PCBs	Aroclor 1221 (PCB-1221)	<145	ND	µg/kg	14,502	8082
PCBs	Aroclor 1232 (PCB-1232)	<145	ND	µg/kg	14,502	8082
PCBs	Aroclor 1242 (PCB-1242)	<145	ND	µg/kg	14,502	8082
PCBs	Aroclor 1248 (PCB-1248)	<145	ND	µg/kg	14,502	8082
PCBs	Aroclor 1254 (PCB-1254)	<145	ND	µg/kg	14,502	8082
PCBs	Aroclor 1260 (PCB-1260)	<145	ND	µg/kg	14,502	8082
Percent Moisture	Percent Moisture	31.0		%	14,579	Infrared Drying

Sample: AB65036

Customer #: 1201162

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 12:10:00PM
Entry Point:
Sample Comment: Composite, Sample #1201162, Surface soil collected from eastern roadway across from maintenance building.

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Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	1,2,4-Trichlorobenzene	<565	09, ND	µg/kg	14,507	8270C
BNAs	1,2-Dichlorobenzene	<565	09, ND	µg/kg	14,507	8270C
BNAs	1,3-Dichlorobenzene	<565	09, ND	µg/kg	14,507	8270C
BNAs	1,4-Dichlorobenzene	<565	09, ND	µg/kg	14,507	8270C
BNAs	2,4,5-Trichlorophenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	2,4,6-Trichlorophenol	<1130	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dichlorophenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dimethylphenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrophenol	<5650	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrotoluene	<2260	09, ND	µg/kg	14,507	8270C
BNAs	2,6-Dinitrotoluene	<565	09, ND	µg/kg	14,507	8270C
BNAs	2-Chloronaphthalene	<1130	09, ND	µg/kg	14,507	8270C
BNAs	2-Chlorophenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	2-Methyl-4,6-dinitrophenol	<2260	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylnaphthalene	<565	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylphenol	<565	09, ND	µg/kg	14,507	8270C

Sample: AB65036

Customer #: 1201162

Facility ID:
County: Jefferson
Collector: SEAN COUNIHAN
Entry Point:
Sample Comment: Composite, Sample #1201162, Surface soil collected from eastern roadway across from maintenance building.

Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Affiliation: ESP
Collect Date: 1/11/2012 12:10:00PM

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	2-Nitroaniline	<565	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitrophenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	3,3-Dichlorobenzidine	<565	09, ND	µg/kg	14,507	8270C
BNAs	3-Nitroaniline	<565	09, ND	µg/kg	14,507	8270C
BNAs	4-Bromophenyl phenyl ether	<565	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloro-3-methylphenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloroaniline	<565	09, ND	µg/kg	14,507	8270C
BNAs	4-Chlorophenyl phenyl ether	<1130	09, ND	µg/kg	14,507	8270C
BNAs	4-Methylphenol	<1130	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitroaniline	<565	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitrophenol	<1130	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthylene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Anthracene	<565	09, ND	µg/kg	14,507	8270C
BNAs	azobenzene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)anthracene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)pyrene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(b)fluoranthene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(ghi)perylene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(k)fluoranthene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Benzoic Acid	<1130	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethoxy)methane	<2260	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethyl)ether	<565	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-chloroisopropyl)ether	<565	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Ethylhexyl) phthalate	<1130	09, ND	µg/kg	14,507	8270C
BNAs	Butyl benzyl phthalate	<1130	09, ND	µg/kg	14,507	8270C
BNAs	Chrysene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzo(a,h)anthracene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzofuran	<565	09, ND	µg/kg	14,507	8270C
BNAs	Diethyl phthalate	<2260	09, ND	µg/kg	14,507	8270C
BNAs	Dimethyl phthalate	<565	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-butyl phthalate	<565	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-octyl phthalate	<565	09, ND	µg/kg	14,507	8270C
BNAs	Fluoranthene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Fluorene	<565	09, ND	µg/kg	14,507	8270C

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Sample: AB65036

Customer #: 1201162

Facility ID:
County: Jefferson
Collector: SEAN COUNIHAN
Entry Point:
Sample Comment: Composite, Sample #1201162, Surface soil collected from eastern roadway across from maintenance building.

Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Affiliation: ESP
Collect Date: 1/11/2012 12:10:00PM

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	Hexachlorobenzene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobutadiene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorocyclopentadiene	<1130	09, ND	µg/kg	14,507	8270C
BNAs	Hexachloroethane	<565	09, ND	µg/kg	14,507	8270C
BNAs	Indeno(1,2,3-cd)pyrene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Isophorone	<565	09, ND	µg/kg	14,507	8270C
BNAs	Naphthalene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Nitrobenzene	<565	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitroso-di-n-propylamine	<565	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitrosodiphenylamine	<5650	09, ND	µg/kg	14,507	8270C
BNAs	Pentachlorophenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	Phenanthrene	<565	09, ND	µg/kg	14,507	8270C
BNAs	Phenol	<565	09, ND	µg/kg	14,507	8270C
BNAs	Pyrene	<565	09, ND	µg/kg	14,507	8270C
Organochlorine Pesticides	4,4-DDD	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDE	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDT	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Aldrin	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	alpha-BHC	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	beta-BHC	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Chlordane	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	delta-BHC	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Dieldrin	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan I	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan II	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan sulfate	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin aldehyde	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	gamma-BHC (Lindane)	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor Epoxide	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Methoxychlor	<56.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Toxaphene	<565	ND	µg/kg	14,590	8081A
PCBs	Aroclor 1016 (PCB-1016)	<113	ND	µg/kg	14,502	8082
PCBs	Aroclor 1221 (PCB-1221)	<113	ND	µg/kg	14,502	8082

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Sample: AB65036

Customer #: 1201162

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 12:10:00PM
Entry Point:
Sample Comment: Composite, Sample #1201162, Surface soil collected from eastern roadway across from maintenance building.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
PCBs	Aroclor 1232 (PCB-1232)	<113	ND	µg/kg	14,502	8082
PCBs	Aroclor 1242 (PCB-1242)	232	ND	µg/kg	14,502	8082
PCBs	Aroclor 1248 (PCB-1248)	<113	ND	µg/kg	14,502	8082
PCBs	Aroclor 1254 (PCB-1254)	<113	ND	µg/kg	14,502	8082
PCBs	Aroclor 1260 (PCB-1260)	<113	ND	µg/kg	14,502	8082
Percent Moisture	Percent Moisture	11.8		%	14,579	Infrared Drying

Sample: AB65037

Customer #: 1201164

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 12:25:00PM
Entry Point:
Sample Comment: Composite, Sample #1201164, surface soil collected at the base of the first scrap pile on eastern edge, just north of the shear.

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Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	1,2,4-Trichlorobenzene	<590	09, ND	µg/kg	14,507	8270C
BNAs	1,2-Dichlorobenzene	<590	09, ND	µg/kg	14,507	8270C
BNAs	1,3-Dichlorobenzene	<590	09, ND	µg/kg	14,507	8270C
BNAs	1,4-Dichlorobenzene	<590	09, ND	µg/kg	14,507	8270C
BNAs	2,4,5-Trichlorophenol	<590	09, ND	µg/kg	14,507	8270C
BNAs	2,4,6-Trichlorophenol	<1180	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dichlorophenol	<590	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dimethylphenol	<590	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrophenol	<5900	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrotoluene	<2360	09, ND	µg/kg	14,507	8270C
BNAs	2,6-Dinitrotoluene	<590	09, ND	µg/kg	14,507	8270C
BNAs	2-Chloronaphthalene	<1180	09, ND	µg/kg	14,507	8270C
BNAs	2-Chlorophenol	<590	09, ND	µg/kg	14,507	8270C
BNAs	2-Methyl-4,6-dinitrophenol	<2360	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylnaphthalene	<590	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylphenol	<590	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitroaniline	<590	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitrophenol	<590	09, ND	µg/kg	14,507	8270C
BNAs	3,3-Dichlorobenzidine	<590	09, ND	µg/kg	14,507	8270C
BNAs	3-Nitroaniline	<590	09, ND	µg/kg	14,507	8270C

Sample: AB65037

Customer #: 1201164

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 12:25:00PM
Entry Point:
Sample Comment: Composite, Sample #1201164, surface soil collected at the base of the first scrap pile on eastern edge, just north of the shear.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	4-Bromophenyl phenyl ether	<590	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloro-3-methylphenol	13200	09	µg/kg	14,507	8270C
BNAs	4-Chloroaniline	<590	09, ND	µg/kg	14,507	8270C
BNAs	4-Chlorophenyl phenyl ether	<1180	09, ND	µg/kg	14,507	8270C
BNAs	4-Methylphenol	<1180	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitroaniline	<590	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitrophenol	<1180	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthene	<590	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthylene	<590	09, ND	µg/kg	14,507	8270C
BNAs	Anthracene	<590	09, ND	µg/kg	14,507	8270C
BNAs	azobenzene	<590	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)anthracene	<590	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)pyrene	<590	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(b)fluoranthene	<590	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(ghi)perylene	<590	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(k)fluoranthene	<590	09, ND	µg/kg	14,507	8270C
BNAs	Benzoic Acid	<1180	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethoxy)methane	<2360	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethyl)ether	<590	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-chloroisopropyl)ether	<590	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Ethylhexyl) phthalate	4630	09	µg/kg	14,507	8270C
BNAs	Butyl benzyl phthalate	<1180	09, ND	µg/kg	14,507	8270C
BNAs	Chrysene	<590	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzo(a,h)anthracene	<590	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzofuran	<590	09, ND	µg/kg	14,507	8270C
BNAs	Diethyl phthalate	<2360	09, ND	µg/kg	14,507	8270C
BNAs	Dimethyl phthalate	<590	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-butyl phthalate	<590	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-octyl phthalate	<590	09, ND	µg/kg	14,507	8270C
BNAs	Fluoranthene	740	09, 05	µg/kg	14,507	8270C
BNAs	Fluorene	<590	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobenzene	<590	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobutadiene	<590	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorocyclopentadiene	<1180	09, ND	µg/kg	14,507	8270C
BNAs	Hexachloroethane	<590	09, ND	µg/kg	14,507	8270C

DRAFT

Sample: AB65037

Customer #: 1201164

Facility ID:
County: Jefferson
Collector: SEAN COUNIHAN
Entry Point:
Sample Comment: Composite, Sample #1201164, surface soil collected at the base of the first scrap pile on eastern edge, just north of the shear.

Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Affiliation: ESP
Collect Date: 1/11/2012 12:25:00PM

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	Indeno(1,2,3-cd)pyrene	<590	09, ND	µg/kg	14,507	8270C
BNAs	Isophorone	<590	09, ND	µg/kg	14,507	8270C
BNAs	Naphthalene	<590	09, ND	µg/kg	14,507	8270C
BNAs	Nitrobenzene	<590	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitroso-di-n-propylamine	<590	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitrosodiphenylamine	<5900	09, ND	µg/kg	14,507	8270C
BNAs	Pentachlorophenol	<590	09, ND	µg/kg	14,507	8270C
BNAs	Phenanthrene	<590	09, ND	µg/kg	14,507	8270C
BNAs	Phenol	661	09, 05	µg/kg	14,507	8270C
BNAs	Pyrene	653	09, 05	µg/kg	14,507	8270C
Organochlorine Pesticides	4,4-DDD	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDE	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDT	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Aldrin	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	alpha-BHC	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	beta-BHC	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Chlordane	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	delta-BHC	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Dieldrin	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan I	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan II	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan sulfate	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin aldehyde	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	gamma-BHC (Lindane)	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor Epoxide	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Methoxychlor	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Toxaphene	<585	ND	µg/kg	14,590	8081A
PCBs	Aroclor 1016 (PCB-1016)	<117	ND	µg/kg	14,502	8082
PCBs	Aroclor 1221 (PCB-1221)	<117	ND	µg/kg	14,502	8082
PCBs	Aroclor 1232 (PCB-1232)	<117	ND	µg/kg	14,502	8082
PCBs	Aroclor 1242 (PCB-1242)	<117	ND	µg/kg	14,502	8082
PCBs	Aroclor 1248 (PCB-1248)	<117	ND	µg/kg	14,502	8082
PCBs	Aroclor 1254 (PCB-1254)	<117	ND	µg/kg	14,502	8082

DRAFT

Sample: AB65037

Customer #: 1201164

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 12:25:00PM
Entry Point:
Sample Comment: Composite, Sample #1201164, surface soil collected at the base of the first scrap pile on eastern edge, just north of the shear.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
PCBs	Aroclor 1260 (PCB-1260)	<117	ND	µg/kg	14,502	8082
Percent Moisture	Percent Moisture	15.1		%	14,579	Infrared Drying

Sample: AB65038

Customer #: 1201166

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 12:33:00PM
Entry Point:
Sample Comment: Composite, Sample #1201166, surface soil collected from eastern roadway at T-junction between scrap pile 1 and scrap pile 2.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	1,2,4-Trichlorobenzene	<570	09, ND	µg/kg	14,507	8270C
BNAs	1,2-Dichlorobenzene	<570	09, ND	µg/kg	14,507	8270C
BNAs	1,3-Dichlorobenzene	<570	09, ND	µg/kg	14,507	8270C
BNAs	1,4-Dichlorobenzene	<570	09, ND	µg/kg	14,507	8270C
BNAs	2,4,5-Trichlorophenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	2,4,6-Trichlorophenol	<1140	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dichlorophenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dimethylphenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrophenol	<5700	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrotoluene	<2280	09, ND	µg/kg	14,507	8270C
BNAs	2,6-Dinitrotoluene	<570	09, ND	µg/kg	14,507	8270C
BNAs	2-Chloronaphthalene	<1140	09, ND	µg/kg	14,507	8270C
BNAs	2-Chlorophenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	2-Methyl-4,6-dinitrophenol	<2280	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylnaphthalene	<570	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylphenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitroaniline	<570	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitrophenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	3,3-Dichlorobenzidine	<570	09, ND	µg/kg	14,507	8270C
BNAs	3-Nitroaniline	<570	09, ND	µg/kg	14,507	8270C
BNAs	4-Bromophenyl phenyl ether	<570	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloro-3-methylphenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloroaniline	<570	09, ND	µg/kg	14,507	8270C
BNAs	4-Chlorophenyl phenyl ether	<1140	09, ND	µg/kg	14,507	8270C

DRAFT

Sample: AB65038

Customer #: 1201166

Facility ID:
County: Jefferson
Collector: SEAN COUNIHAN
Entry Point:
Sample Comment: Composite, Sample #1201166, surface soil collected from eastern roadway at T-junction between scrap pile 1 and scrap pile 2.

Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Affiliation: ESP
Collect Date: 1/11/2012 12:33:00PM

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	4-Methylphenol	<1140	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitroaniline	<570	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitrophenol	<1140	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthylene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Anthracene	<570	09, ND	µg/kg	14,507	8270C
BNAs	azobenzene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)anthracene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)pyrene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(b)fluoranthene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(ghi)perylene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(k)fluoranthene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Benzoic Acid	<1140	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethoxy)methane	<2280	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethyl)ether	<570	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-chloroisopropyl)ether	<570	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Ethylhexyl) phthalate	1990	09, 05	µg/kg	14,507	8270C
BNAs	Butyl benzyl phthalate	<1140	09, ND	µg/kg	14,507	8270C
BNAs	Chrysene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzo(a,h)anthracene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzofuran	<570	09, ND	µg/kg	14,507	8270C
BNAs	Diethyl phthalate	<2280	09, ND	µg/kg	14,507	8270C
BNAs	Dimethyl phthalate	<570	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-butyl phthalate	<570	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-octyl phthalate	<570	09, ND	µg/kg	14,507	8270C
BNAs	Fluoranthene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Fluorene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobenzene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobutadiene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorocyclopentadiene	<1140	09, ND	µg/kg	14,507	8270C
BNAs	Hexachloroethane	<570	09, ND	µg/kg	14,507	8270C
BNAs	Indeno(1,2,3-cd)pyrene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Isophorone	<570	09, ND	µg/kg	14,507	8270C
BNAs	Naphthalene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Nitrobenzene	<570	09, ND	µg/kg	14,507	8270C

DRAFT

Sample: AB65038

Customer #: 1201166

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 12:33:00PM
Entry Point:
Sample Comment: Composite, Sample #1201166, surface soil collected from eastern roadway at T-junction between scrap pile 1 and scrap pile 2.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	n-Nitroso-di-n-propylamine	<570	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitrosodiphenylamine	<5700	09, ND	µg/kg	14,507	8270C
BNAs	Pentachlorophenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	Phenanthrene	<570	09, ND	µg/kg	14,507	8270C
BNAs	Phenol	<570	09, ND	µg/kg	14,507	8270C
BNAs	Pyrene	<570	09, ND	µg/kg	14,507	8270C
Organochlorine Pesticides	4,4-DDD	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDE	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDT	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Aldrin	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	alpha-BHC	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	beta-BHC	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Chlordane	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	delta-BHC	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Dieldrin	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan I	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan II	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan sulfate	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin aldehyde	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	gamma-BHC (Lindane)	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor Epoxide	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Methoxychlor	<57	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Toxaphene	<570	ND	µg/kg	14,590	8081A
PCBs	Aroclor 1016 (PCB-1016)	<114	ND	µg/kg	14,502	8082
PCBs	Aroclor 1221 (PCB-1221)	<114	ND	µg/kg	14,502	8082
PCBs	Aroclor 1232 (PCB-1232)	<114	ND	µg/kg	14,502	8082
PCBs	Aroclor 1242 (PCB-1242)	<114	ND	µg/kg	14,502	8082
PCBs	Aroclor 1248 (PCB-1248)	<114	ND	µg/kg	14,502	8082
PCBs	Aroclor 1254 (PCB-1254)	<114	ND	µg/kg	14,502	8082
PCBs	Aroclor 1260 (PCB-1260)	<114	ND	µg/kg	14,502	8082
Percent Moisture	Percent Moisture	12.6		%	14,579	Infrared Drying

DRAFT

Sample: AB65039

Customer #: 1201168

Facility ID:
County: Jefferson
Collector: SEAN COUNIHAN
Entry Point:
Sample Comment: Composite, Sample #1201167, Surface soil collected at the head of the eastern roadway, north of the shredder
Precision

Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Affiliation: ESP
Collect Date: 1/11/2012 12:54:00PM

UTM-Easting	Northing
728278.81E	4234821.48N

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	1,2,4-Trichlorobenzene	<555	09, ND	µg/kg	14,507	8270C
BNAs	1,2-Dichlorobenzene	<555	09, ND	µg/kg	14,507	8270C
BNAs	1,3-Dichlorobenzene	<555	09, ND	µg/kg	14,507	8270C
BNAs	1,4-Dichlorobenzene	<555	09, ND	µg/kg	14,507	8270C
BNAs	2,4,5-Trichlorophenol	<555	09, ND	µg/kg	14,507	8270C
BNAs	2,4,6-Trichlorophenol	<1110	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dichlorophenol	<555	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dimethylphenol	<555	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrophenol	<5550	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrotoluene	<2220	09, ND	µg/kg	14,507	8270C
BNAs	2,6-Dinitrotoluene	<555	09, ND	µg/kg	14,507	8270C
BNAs	2-Chloronaphthalene	<1110	09, ND	µg/kg	14,507	8270C
BNAs	2-Chlorophenol	<555	09, ND	µg/kg	14,507	8270C
BNAs	2-Methyl-4,6-dinitrophenol	<2220	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylnaphthalene	<555	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylphenol	<555	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitroaniline	<555	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitrophenol	<555	09, ND	µg/kg	14,507	8270C
BNAs	3,3-Dichlorobenzidine	<555	09, ND	µg/kg	14,507	8270C
BNAs	3-Nitroaniline	<555	09, ND	µg/kg	14,507	8270C
BNAs	4-Bromophenyl phenyl ether	<555	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloro-3-methylphenol	<555	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloroaniline	<555	09, ND	µg/kg	14,507	8270C
BNAs	4-Chlorophenyl phenyl ether	<1110	09, ND	µg/kg	14,507	8270C
BNAs	4-Methylphenol	<1110	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitroaniline	<555	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitrophenol	<1110	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthene	<555	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthylene	<555	09, ND	µg/kg	14,507	8270C
BNAs	Anthracene	<555	09, ND	µg/kg	14,507	8270C
BNAs	azobenzene	<555	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)anthracene	<555	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)pyrene	<555	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(b)fluoranthene	<555	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(ghi)perylene	<555	09, ND	µg/kg	14,507	8270C

DRAFT

Sample: AB65039

Customer #: 1201168

Facility ID:
County: Jefferson
Collector: SEAN COUNIHAN
Entry Point:
Sample Comment: Composite, Sample #1201167, Surface soil collected at the head of the eastern roadway, north of the shredder
Precision

Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Affiliation: ESP
Collect Date: 1/11/2012 12:54:00PM

UTM-Easting 728278.81E
Northing 4234821.48N

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	Benzo(k)fluoranthene	<555	09, ND	µg/kg	14,507	8270C
BNAs	Benzoic Acid	<1110	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethoxy)methane	<2220	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethyl)ether	<555	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-chloroisopropyl)ether	<555	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Ethylhexyl) phthalate	6190	09	µg/kg	14,507	8270C
BNAs	Butyl benzyl phthalate	<1110	09, ND	µg/kg	14,507	8270C
BNAs	Chrysene	<555	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzo(a,h)anthracene	<555	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzofuran	<555	09, ND	µg/kg	14,507	8270C
BNAs	Diethyl phthalate	<2220	09, ND	µg/kg	14,507	8270C
BNAs	Dimethyl phthalate	<555	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-butyl phthalate	<555	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-octyl phthalate	<555	09, ND	µg/kg	14,507	8270C
BNAs	Fluoranthene	<555	09, ND	µg/kg	14,507	8270C
BNAs	Fluorene	<555	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobenzene	<555	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobutadiene	<555	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorocyclopentadiene	<1110	09, ND	µg/kg	14,507	8270C
BNAs	Hexachloroethane	<555	09, ND	µg/kg	14,507	8270C
BNAs	Indeno(1,2,3-cd)pyrene	<555	09, ND	µg/kg	14,507	8270C
BNAs	Isophorone	<555	09, ND	µg/kg	14,507	8270C
BNAs	Naphthalene	<555	09, ND	µg/kg	14,507	8270C
BNAs	Nitrobenzene	<555	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitroso-di-n-propylamine	<555	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitrosodiphenylamine	<5550	09, ND	µg/kg	14,507	8270C
BNAs	Pentachlorophenol	<555	09, ND	µg/kg	14,507	8270C
BNAs	Phenanthrene	<555	09, ND	µg/kg	14,507	8270C
BNAs	Phenol	<555	09, ND	µg/kg	14,507	8270C
BNAs	Pyrene	<555	09, ND	µg/kg	14,507	8270C
Organochlorine Pesticides	4,4-DDD	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDE	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDT	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Aldrin	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	alpha-BHC	<55.5	ND	µg/kg	14,590	8081A

DRAFT

Sample: AB65039

Customer #: 1201168

Facility ID:
County: Jefferson
Collector: SEAN COUNIHAN
Entry Point:
Sample Comment: Composite, Sample #1201167, Surface soil collected at the head of the eastern roadway, north of the shredder
Precision

Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Affiliation: ESP
Collect Date: 1/11/2012 12:54:00PM

UTM-Easting 728278.81E
Northing 4234821.48N

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Organochlorine Pesticides	beta-BHC	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Chlordane	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	delta-BHC	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Dieldrin	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan I	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan II	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan sulfate	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin aldehyde	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	gamma-BHC (Lindane)	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor Epoxide	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Methoxychlor	<55.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Toxaphene	<555	ND	µg/kg	14,590	8081A
PCBs	Aroclor 1016 (PCB-1016)	<111	ND	µg/kg	14,502	8082
PCBs	Aroclor 1221 (PCB-1221)	<111	ND	µg/kg	14,502	8082
PCBs	Aroclor 1232 (PCB-1232)	<111	ND	µg/kg	14,502	8082
PCBs	Aroclor 1242 (PCB-1242)	2090	ND	µg/kg	14,502	8082
PCBs	Aroclor 1248 (PCB-1248)	<111	ND	µg/kg	14,502	8082
PCBs	Aroclor 1254 (PCB-1254)	<111	ND	µg/kg	14,502	8082
PCBs	Aroclor 1260 (PCB-1260)	<111	ND	µg/kg	14,502	8082
Percent Moisture	Percent Moisture	10.2		%	14,579	Infrared Drying

DRAFT

Sample: AB65040

Customer #: 1201170

Facility ID:
County: Jefferson
Collector: SEAN COUNIHAN
Entry Point:
Sample Comment: Composite, Sample #1201169, sample of fluff from the fluff pile.
Precision

Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Affiliation: ESP
Collect Date: 1/11/2012 1:12:00PM

UTM-Easting 728286.11E
Northing 4234843.38N

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	1,2,4-Trichlorobenzene	<585	09, ND	µg/kg	14,507	8270C
BNAs	1,2-Dichlorobenzene	<585	09, ND	µg/kg	14,507	8270C
BNAs	1,3-Dichlorobenzene	<585	09, ND	µg/kg	14,507	8270C
BNAs	1,4-Dichlorobenzene	<585	09, ND	µg/kg	14,507	8270C

Sample: AB65040

Customer #: 1201170

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 1:12:00PM
Entry Point:
Sample Comment: Composite, Sample #1201169, sample of fluff from the fluff pile.
Precision

UTM-Easting	Northing
728286.11E	4234843.38N

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	2,4,5-Trichlorophenol	<585	09, ND	µg/kg	14,507	8270C
BNAs	2,4,6-Trichlorophenol	<1170	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dichlorophenol	<585	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dimethylphenol	<585	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrophenol	<5850	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrotoluene	<2340	09, ND	µg/kg	14,507	8270C
BNAs	2,6-Dinitrotoluene	<585	09, ND	µg/kg	14,507	8270C
BNAs	2-Chloronaphthalene	<1170	09, ND	µg/kg	14,507	8270C
BNAs	2-Chlorophenol	<585	09, ND	µg/kg	14,507	8270C
BNAs	2-Methyl-4,6-dinitrophenol	<2340	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylnaphthalene	936	09, 05	µg/kg	14,507	8270C
BNAs	2-Methylphenol	<585	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitroaniline	<585	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitrophenol	<585	09, ND	µg/kg	14,507	8270C
BNAs	3,3-Dichlorobenzidine	<585	09, ND	µg/kg	14,507	8270C
BNAs	3-Nitroaniline	<585	09, ND	µg/kg	14,507	8270C
BNAs	4-Bromophenyl phenyl ether	<585	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloro-3-methylphenol	<585	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloroaniline	<585	09, ND	µg/kg	14,507	8270C
BNAs	4-Chlorophenyl phenyl ether	<1170	09, ND	µg/kg	14,507	8270C
BNAs	4-Methylphenol	<1170	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitroaniline	<585	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitrophenol	<1170	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthylene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Anthracene	<585	09, ND	µg/kg	14,507	8270C
BNAs	azobenzene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)anthracene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)pyrene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(b)fluoranthene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(ghi)perylene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(k)fluoranthene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Benzoic Acid	<1170	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethoxy)methane	<2340	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethyl)ether	<585	09, ND	µg/kg	14,507	8270C

DRAFT

Sample: AB65040

Customer #: 1201170

Facility ID:
County: Jefferson
Collector: SEAN COUNIHAN
Entry Point:
Sample Comment: Composite, Sample #1201169, sample of fluff from the fluff pile.

Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Affiliation: ESP
Collect Date: 1/11/2012 1:12:00PM

UTM-Easting 728286.11E
Northing 4234843.38N
Precision

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	bis(2-chloroisopropyl)ether	<585	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Ethylhexyl) phthalate	58700	09	µg/kg	14,507	8270C
BNAs	Butyl benzyl phthalate	<1170	09, ND	µg/kg	14,507	8270C
BNAs	Chrysene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzo(a,h)anthracene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzofuran	<585	09, ND	µg/kg	14,507	8270C
BNAs	Diethyl phthalate	<2340	09, ND	µg/kg	14,507	8270C
BNAs	Dimethyl phthalate	988	09, 05	µg/kg	14,507	8270C
BNAs	Di-n-butyl phthalate	986	09, 05	µg/kg	14,507	8270C
BNAs	Di-n-octyl phthalate	<585	09, ND	µg/kg	14,507	8270C
BNAs	Fluoranthene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Fluorene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobenzene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobutadiene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorocyclopentadiene	<1170	09, ND	µg/kg	14,507	8270C
BNAs	Hexachloroethane	<585	09, ND	µg/kg	14,507	8270C
BNAs	Indeno(1,2,3-cd)pyrene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Isophorone	<585	09, ND	µg/kg	14,507	8270C
BNAs	Naphthalene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Nitrobenzene	<585	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitroso-di-n-propylamine	<585	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitrosodiphenylamine	<5850	09, ND	µg/kg	14,507	8270C
BNAs	Pentachlorophenol	<585	09, ND	µg/kg	14,507	8270C
BNAs	Phenanthrene	<585	09, ND	µg/kg	14,507	8270C
BNAs	Phenol	771	09, 05	µg/kg	14,507	8270C
BNAs	Pyrene	<585	09, ND	µg/kg	14,507	8270C
Organochlorine Pesticides	4,4-DDD	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDE	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDT	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Aldrin	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	alpha-BHC	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	beta-BHC	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Chlordane	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	delta-BHC	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Dieldrin	<58.5	ND	µg/kg	14,590	8081A

DRAFT

120112002

Sample: AB65040

Customer #: 1201170

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 1:12:00PM
Entry Point:
Sample Comment: Composite, Sample #1201169, sample of fluff from the fluff pile.
Precision

UTM-Easting	Northing
728286.11E	4234843.38N

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Organochlorine Pesticides	Endosulfan I	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan II	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan sulfate	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin aldehyde	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	gamma-BHC (Lindane)	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor Epoxide	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Methoxychlor	<58.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Toxaphene	<585	ND	µg/kg	14,590	8081A
PCBs	Aroclor 1016 (PCB-1016)	<117	ND	µg/kg	14,502	8082
PCBs	Aroclor 1221 (PCB-1221)	<117	ND	µg/kg	14,502	8082
PCBs	Aroclor 1232 (PCB-1232)	<117	ND	µg/kg	14,502	8082
PCBs	Aroclor 1242 (PCB-1242)	7600	ND	µg/kg	14,502	8082
PCBs	Aroclor 1248 (PCB-1248)	<117	ND	µg/kg	14,502	8082
PCBs	Aroclor 1254 (PCB-1254)	<117	ND	µg/kg	14,502	8082
PCBs	Aroclor 1260 (PCB-1260)	<117	ND	µg/kg	14,502	8082
Percent Moisture	Percent Moisture	14.3		%	14,579	Infrared Drying

DRAFT

Sample: AB65041

Customer #: 1201172

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 1:30:00PM
Entry Point:
Sample Comment: Composite, Sample #1201171, 0-12" depth sample collected from the bottom of the fluff pile.
Precision

UTM-Easting	Northing
728286.11E	4234843.38N

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	1,2,4-Trichlorobenzene	<605	09, ND	µg/kg	14,507	8270C
BNAs	1,2-Dichlorobenzene	<605	09, ND	µg/kg	14,507	8270C
BNAs	1,3-Dichlorobenzene	<605	09, ND	µg/kg	14,507	8270C
BNAs	1,4-Dichlorobenzene	<605	09, ND	µg/kg	14,507	8270C
BNAs	2,4,5-Trichlorophenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	2,4,6-Trichlorophenol	<1210	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dichlorophenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dimethylphenol	<605	09, ND	µg/kg	14,507	8270C

Sample: AB65041

Customer #: 1201172

Facility ID:
County: Jefferson
Collector: SEAN COUNIHAN
Entry Point:
Sample Comment: Composite, Sample #1201171, 0-12" depth sample collected from the bottom of the fluff pile.

Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Affiliation: ESP
Collect Date: 1/11/2012 1:30:00PM

UTM-Easting	Northing	Precision
728286.11E	4234843.38N	

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	2,4-Dinitrophenol	<6050	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrotoluene	<2420	09, ND	µg/kg	14,507	8270C
BNAs	2,6-Dinitrotoluene	<605	09, ND	µg/kg	14,507	8270C
BNAs	2-Chloronaphthalene	<1210	09, ND	µg/kg	14,507	8270C
BNAs	2-Chlorophenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	2-Methyl-4,6-dinitrophenol	<2420	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylnaphthalene	<605	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylphenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitroaniline	<605	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitrophenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	3,3-Dichlorobenzidine	<605	09, ND	µg/kg	14,507	8270C
BNAs	3-Nitroaniline	<605	09, ND	µg/kg	14,507	8270C
BNAs	4-Bromophenyl phenyl ether	<605	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloro-3-methylphenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloroaniline	<605	09, ND	µg/kg	14,507	8270C
BNAs	4-Chlorophenyl phenyl ether	<1210	09, ND	µg/kg	14,507	8270C
BNAs	4-Methylphenol	<1210	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitroaniline	<605	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitrophenol	<1210	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthylene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Anthracene	<605	09, ND	µg/kg	14,507	8270C
BNAs	azobenzene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)anthracene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)pyrene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(b)fluoranthene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(ghi)perylene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(k)fluoranthene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Benzoic Acid	<1210	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethoxy)methane	<2420	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethyl)ether	<605	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-chloroisopropyl)ether	<605	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Ethylhexyl) phthalate	71200	09	µg/kg	14,507	8270C
BNAs	Butyl benzyl phthalate	3650	09	µg/kg	14,507	8270C
BNAs	Chrysene	<605	09, ND	µg/kg	14,507	8270C

DRAFT

120112002

Sample: AB65041

Customer #: 1201172

Facility ID:
County: Jefferson

Site: Shapiro Brothers Scrap Yard
Sample Reference ID:

Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 1:30:00PM

Entry Point:

Sample Comment: Composite, Sample #1201171, 0-12" depth sample collected from the bottom of the fluff pile.

UTM-Easting	Northing	Precision
728286.11E	4234843.38N	

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	Dibenzo(a,h)anthracene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzofuran	<605	09, ND	µg/kg	14,507	8270C
BNAs	Diethyl phthalate	<2420	09, ND	µg/kg	14,507	8270C
BNAs	Dimethyl phthalate	<605	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-butyl phthalate	<605	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-octyl phthalate	<605	09, ND	µg/kg	14,507	8270C
BNAs	Fluoranthene	1100	09, 05	µg/kg	14,507	8270C
BNAs	Fluorene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobenzene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobutadiene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorocyclopentadiene	<1210	09, ND	µg/kg	14,507	8270C
BNAs	Hexachloroethane	<605	09, ND	µg/kg	14,507	8270C
BNAs	Indeno(1,2,3-cd)pyrene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Isophorone	<605	09, ND	µg/kg	14,507	8270C
BNAs	Naphthalene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Nitrobenzene	<605	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitroso-di-n-propylamine	<605	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitrosodiphenylamine	<6050	09, ND	µg/kg	14,507	8270C
BNAs	Pentachlorophenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	Phenanthrene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Phenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	Pyrene	1560	09	µg/kg	14,507	8270C
Organochlorine Pesticides	4,4-DDD	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDE	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDT	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Aldrin	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	alpha-BHC	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	beta-BHC	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Chlordane	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	delta-BHC	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Dieldrin	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan I	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan II	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan sulfate	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin	<60.5	ND	µg/kg	14,590	8081A

DRAFT

Sample: AB65041

Customer #: 1201172

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 1:30:00PM
Entry Point:
Sample Comment: Composite, Sample #1201171, 0-12" depth sample collected from the bottom of the fluff pile.
Precision

UTM-Easting 728286.11E
Northing 4234843.38N

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Organochlorine Pesticides	Endrin aldehyde	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	gamma-BHC (Lindane)	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor Epoxide	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Methoxychlor	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Toxaphene	<605	ND	µg/kg	14,590	8081A
PCBs	Aroclor 1016 (PCB-1016)	<121	ND	µg/kg	14,502	8082
PCBs	Aroclor 1221 (PCB-1221)	<121	ND	µg/kg	14,502	8082
PCBs	Aroclor 1232 (PCB-1232)	<121	ND	µg/kg	14,502	8082
PCBs	Aroclor 1242 (PCB-1242)	7510	ND	µg/kg	14,502	8082
PCBs	Aroclor 1248 (PCB-1248)	<121	ND	µg/kg	14,502	8082
PCBs	Aroclor 1254 (PCB-1254)	<121	ND	µg/kg	14,502	8082
PCBs	Aroclor 1260 (PCB-1260)	<121	ND	µg/kg	14,502	8082
Percent Moisture	Percent Moisture	17.2		%	14,579	Infrared Drying
Total Dioxins and Furans	1,2,3,4,6,7,8,9-OCDD	11000	08,09	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,4,6,7,8,9-OCDF	320	08,09	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,4,6,7,8-HpCDD	1200	08	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,4,6,7,8-HpCDF	120	08,11	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,4,7,8,9-HpCDF	<55	11, ND	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,4,7,8,-HxCDD	6.40	05	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,4,7,8,-HxCDF	23.0	08	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,6,7,8-HxCDD	38.0	08	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,6,7,8-HxCDF	13.0	08	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,7,8,9-HxCDD	28.0	08	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,7,8,9-HxCDF	<1.8	ND	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,7,8-PeCDD	<18	11, ND	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,7,8-PeCDF	<10	11, ND	pg/g		Contract Lab Dep
Total Dioxins and Furans	2,3,4,6,7,8-HxCDF	10.0	08	pg/g		Contract Lab Dep
Total Dioxins and Furans	2,3,4,7,8-PeCDF	<17	11, ND	pg/g		Contract Lab Dep
Total Dioxins and Furans	2,3,7,8-TCDD	6.60	11	pg/g		Contract Lab Dep
Total Dioxins and Furans	2,3,7,8-TCDF	9.70		pg/g		Contract Lab Dep

DRAFT

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S Environmental Protection Agency.

Chris Boldt, Laboratory Manager
Environmental Services Program
Division of Environmental Quality

Qualifier Descriptions

01 Improper collection method
02 Improper preservation
03 Exceeded holding time
04 Analyzed by Contract Laboratory
05 Estimated value, detected below PQL
06 Estimated value, QC data outside limits
07 Estimated value, analyte outside calibration range
08 Analyte present in blank at > 1/2 reported value
09 Sample was diluted during analysis
10 Laboratory error
11 Estimated value, matrix interference
12 Insufficient quantity
13 Estimated value, true result is >= reported value
14 Estimated value, non-homogeneous sample
15 No Result - Failed Quality Controls Requirements
16 Not analyzed - related analyte not detected
17 Results in dry weight
18 Sample pH is outside the acceptable range
19 Estimated value
20 Not analyzed - Instrument failure
21 No result - spectral interference
22 pH was performed at the Laboratory
23 Contract Lab specific qualifier - see sample comments
24 No result - matrix interference
25 No Result: Excessive Chlorination
26 No Result: Excessive Dechlorination
ND Not detected at reported value

DRAFT

DRAFT

Addendum

Missouri Department of Natural Resources
Environmental Services Program

Addendum

Reason: Collector requested additional test/added qualifier

Order ID 120112002 **Program, Contact:** HWP Julieann Warren

Report Date: 03/15/2012 **LDPR/JobCode:** FEPA5 / NJ12SHAP

Sample: AB65041

Customer #: 1201172

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN **Affiliation:** ESP **Collect Date:** 1/11/2012 1:30:00PM
Entry Point:
Sample Comment: Composite, Sample #1201171, 0-12" depth sample collected from the bottom of the fluff pile.
Precision

UTM-Easting 728286.11E **Northing** 4234843.38N

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	1,2,4-Trichlorobenzene	<605	09, ND	µg/kg	14,507	8270C
BNAs	1,2-Dichlorobenzene	<605	09, ND	µg/kg	14,507	8270C
BNAs	1,3-Dichlorobenzene	<605	09, ND	µg/kg	14,507	8270C
BNAs	1,4-Dichlorobenzene	<605	09, ND	µg/kg	14,507	8270C
BNAs	2,4,5-Trichlorophenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	2,4,6-Trichlorophenol	<1210	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dichlorophenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dimethylphenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrophenol	<6050	09, ND	µg/kg	14,507	8270C
BNAs	2,4-Dinitrotoluene	<2420	09, ND	µg/kg	14,507	8270C
BNAs	2,6-Dinitrotoluene	<605	09, ND	µg/kg	14,507	8270C
BNAs	2-Chloronaphthalene	<1210	09, ND	µg/kg	14,507	8270C
BNAs	2-Chlorophenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	2-Methyl-4,6-dinitrophenol	<2420	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylnaphthalene	<605	09, ND	µg/kg	14,507	8270C
BNAs	2-Methylphenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitroaniline	<605	09, ND	µg/kg	14,507	8270C
BNAs	2-Nitrophenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	3,3-Dichlorobenzidine	<605	09, ND	µg/kg	14,507	8270C
BNAs	3-Nitroaniline	<605	09, ND	µg/kg	14,507	8270C
BNAs	4-Bromophenyl phenyl ether	<605	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloro-3-methylphenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	4-Chloroaniline	<605	09, ND	µg/kg	14,507	8270C
BNAs	4-Chlorophenyl phenyl ether	<1210	09, ND	µg/kg	14,507	8270C
BNAs	4-Methylphenol	<1210	09, ND	µg/kg	14,507	8270C

DRAFT

Sample: AB65041

Customer #: 1201172

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 1:30:00PM
Entry Point:
Sample Comment: Composite, Sample #1201171, 0-12" depth sample collected from the bottom of the fluff pile.
Precision

UTM-Easting 728286.11E
Northing 4234843.38N

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	4-Nitroaniline	<605	09, ND	µg/kg	14,507	8270C
BNAs	4-Nitrophenol	<1210	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Acenaphthylene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Anthracene	<605	09, ND	µg/kg	14,507	8270C
BNAs	azobenzene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)anthracene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(a)pyrene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(b)fluoranthene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(ghi)perylene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Benzo(k)fluoranthene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Benzoic Acid	<1210	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethoxy)methane	<2420	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Chloroethyl)ether	<605	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-chloroisopropyl)ether	<605	09, ND	µg/kg	14,507	8270C
BNAs	bis(2-Ethylhexyl) phthalate	71200	09	µg/kg	14,507	8270C
BNAs	Butyl benzyl phthalate	3650	09	µg/kg	14,507	8270C
BNAs	Chrysene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzo(a,h)anthracene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Dibenzofuran	<605	09, ND	µg/kg	14,507	8270C
BNAs	Diethyl phthalate	<2420	09, ND	µg/kg	14,507	8270C
BNAs	Dimethyl phthalate	<605	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-butyl phthalate	<605	09, ND	µg/kg	14,507	8270C
BNAs	Di-n-octyl phthalate	<605	09, ND	µg/kg	14,507	8270C
BNAs	Fluoranthene	1100	09, 05	µg/kg	14,507	8270C
BNAs	Fluorene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobenzene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorobutadiene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Hexachlorocyclopentadiene	<1210	09, ND	µg/kg	14,507	8270C
BNAs	Hexachloroethane	<605	09, ND	µg/kg	14,507	8270C
BNAs	Indeno(1,2,3-cd)pyrene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Isophorone	<605	09, ND	µg/kg	14,507	8270C
BNAs	Naphthalene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Nitrobenzene	<605	09, ND	µg/kg	14,507	8270C
BNAs	n-Nitroso-di-n-propylamine	<605	09, ND	µg/kg	14,507	8270C

DRAFT

Sample: AB65041

Customer #: 1201172

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 1/11/2012 1:30:00PM
Entry Point:
Sample Comment: Composite, Sample #1201171, 0-12" depth sample collected from the bottom of the fluff pile.

UTM-Easting	Northing	Precision
728286.11E	4234843.38N	

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	n-Nitrosodiphenylamine	<6050	09, ND	µg/kg	14,507	8270C
BNAs	Pentachlorophenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	Phenanthrene	<605	09, ND	µg/kg	14,507	8270C
BNAs	Phenol	<605	09, ND	µg/kg	14,507	8270C
BNAs	Pyrene	1560	09	µg/kg	14,507	8270C
Organochlorine Pesticides	4,4-DDD	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDE	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	4,4-DDT	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Aldrin	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	alpha-BHC	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	beta-BHC	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Chlordane	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	delta-BHC	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Dieldrin	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan I	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan II	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endosulfan sulfate	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Endrin aldehyde	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	gamma-BHC (Lindane)	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Heptachlor Epoxide	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Methoxychlor	<60.5	ND	µg/kg	14,590	8081A
Organochlorine Pesticides	Toxaphene	<605	ND	µg/kg	14,590	8081A
PBDE	PBDE-209	8800	04	µg/kg		Contract Lab Dep
PBDE	PBDE-47	1300	04	µg/kg		Contract Lab Dep
PBDE	PBDE-99	1600	04	µg/kg		Contract Lab Dep
PCBs	Aroclor 1016 (PCB-1016)	<121	ND	µg/kg	14,502	8082
PCBs	Aroclor 1221 (PCB-1221)	<121	ND	µg/kg	14,502	8082
PCBs	Aroclor 1232 (PCB-1232)	<121	ND	µg/kg	14,502	8082
PCBs	Aroclor 1242 (PCB-1242)	7510	ND	µg/kg	14,502	8082
PCBs	Aroclor 1248 (PCB-1248)	<121	ND	µg/kg	14,502	8082
PCBs	Aroclor 1254 (PCB-1254)	<121	ND	µg/kg	14,502	8082
PCBs	Aroclor 1260 (PCB-1260)	<121	ND	µg/kg	14,502	8082
Percent Moisture	Percent Moisture	17.2		%	14,579	Infrared Drying

DRAFT

Sample: AB65041

Customer #: 1201172

Facility ID:
County: Jefferson
Collector: SEAN COUNIHAN
Entry Point:
Sample Comment: Composite, Sample #1201171, 0-12" depth sample collected from the bottom of the fluff pile.

Site: Shapiro Brothers Scrap Yard
Sample Reference ID:
Affiliation: ESP
Collect Date: 1/11/2012 1:30:00PM

UTM-Easting 728286.11E
Northing 4234843.38N
Precision

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Total Dioxins and Furans	1,2,3,4,6,7,8,9-OCDD	11000	04,08,09	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,4,6,7,8,9-OCDF	320	04,08,09	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,4,6,7,8-HpCDD	1200	04,08	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,4,6,7,8-HpCDF	120	04,08,11	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,4,7,8,9-HpCDF	<55	04,11,ND	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,4,7,8,-HxCDD	6.40	O4,05	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,4,7,8,-HxCDF	23.0	04,08	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,6,7,8-HxCDD	38.0	04,08	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,6,7,8-HxCDF	13.0	04,08	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,7,8,9-HxCDD	28.0	04,08	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,7,8,9-HxCDF	<1.8	04,ND	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,7,8-PeCDD	<18	04,11,ND	pg/g		Contract Lab Dep
Total Dioxins and Furans	1,2,3,7,8-PeCDF	<10	04,11,ND	pg/g		Contract Lab Dep
Total Dioxins and Furans	2,3,4,6,7,8-HxCDF	10.0	04,08	pg/g		Contract Lab Dep
Total Dioxins and Furans	2,3,4,7,8-PeCDF	<17	04,11,ND	pg/g		Contract Lab Dep
Total Dioxins and Furans	2,3,7,8-TCDD	6.60	04,11	pg/g		Contract Lab Dep
Total Dioxins and Furans	2,3,7,8-TCDF	9.70	04	pg/g		Contract Lab Dep

DRAFT

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S Environmental Protection Agency.

Qualifier Descriptions

01 Improper collection method
02 Improper preservation
03 Exceeded holding time
04 Analyzed by Contract Laboratory
05 Estimated value, detected below PQL
06 Estimated value, QC data outside limits
07 Estimated value, analyte outside calibration range
08 Analyte present in blank at > 1/2 reported value
09 Sample was diluted during analysis
10 Laboratory error
11 Estimated value, matrix interference
12 Insufficient quantity
13 Estimated value, true result is >= reported value
14 Estimated value, non-homogeneous sample
15 No Result - Failed Quality Controls Requirements
16 Not analyzed - related analyte not detected
17 Results in dry weight
18 Sample pH is outside the acceptable range
19 Estimated value
20 Not analyzed - Instrument failure
21 No result - spectral interference
22 pH was performed at the Laboratory
23 Contract Lab specific qualifier - see sample comments
24 No result - matrix interference
25 No Result: Excessive Chlorination
26 No Result: Excessive Dechlorination
ND Not detected at reported value

Sy Dunmire for Chris Boldt

Chris Boldt, Laboratory Manager
Environmental Services Program
Division of Environmental Quality

Missouri Department of Natural Resources
Environmental Services Program

Order ID 120413006 **Program, Contact:** HWP Julieann Warren

Report Date: 04/24/2012 **LDPR/JobCode:** FEPA5 / NJ12SHAP

Sample: AB70470

Customer #: 1201180

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 4/9/2012 12:38:00PM
Entry Point:
Sample Comment: Grab sample 1201180, SW01 collected at north side of 12th St Bridge.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Dissolved	Arsenic	0.99	05	µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Cadmium	0.65		µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Copper	13.2		µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Lead	1.25		µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Zinc	40.9		µg/L	15,695	SW 846 6020
6020 Metals-Total Recoverable	Arsenic	0.72	05	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	1.02		µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Copper	25.6		µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Lead	34.3		µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Zinc	59.8		µg/L	15,703	SW 846 6020
CMNK 6010B Dissolved	Calcium	125		mg/L	15,734	SW 846 6010B
CMNK 6010B Dissolved	Magnesium	52.6		mg/L	15,734	SW 846 6010B
CMNK 6010B Total Recoverable	Calcium	115		mg/L	15,735	SW 846 6010B
CMNK 6010B Total Recoverable	Magnesium	48.0		mg/L	15,735	SW 846 6010B
Field Dissolved Oxygen	Field Dissolved Oxygen	8.0		mg/L		SM 4500-O-G
Field pH	Field pH	7.51		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	1190		µS/cm		SM 2510
Field Temperature	Field Temperature	16.5		° C		EPA 170.1
Field Turbidity	Field Turbidity	1.54		NTU		EPA 180.1
Hardness as CaCO3 Dissolved-N	Hardness as CaCO3	529		mg/L		SM 2340-B
Hardness as CaCO3-TR-N	Hardness as CaCO3	485		mg/L		SM 2340-B
Oxidation Reduction Potential	Oxidation Reduction Potential	54		mV		Not Applicable

DRAFT

Sample: AB70471

Customer #: 1201181

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 4/9/2012 1:14:00PM
Entry Point:
Sample Comment: Grab sample1201181. SW02, collected at South side of 6th St. Bridge.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Dissolved	Arsenic	2.04		µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Cadmium	<0.1	ND	µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Copper	2.44		µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Lead	<0.5	ND	µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Zinc	10.6		µg/L	15,695	SW 846 6020
6020 Metals-Total Recoverable	Arsenic	1.87		µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	0.12	05	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Copper	2.81		µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Lead	3.26		µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Zinc	12.9		µg/L	15,703	SW 846 6020
CMNK 6010B Dissolved	Calcium	58.5		mg/L	15,734	SW 846 6010B
CMNK 6010B Dissolved	Magnesium	29.6		mg/L	15,734	SW 846 6010B
CMNK 6010B Total Recoverable	Calcium	53.8		mg/L	15,735	SW 846 6010B
CMNK 6010B Total Recoverable	Magnesium	27.4		mg/L	15,735	SW 846 6010B
Field Dissolved Oxygen	Field Dissolved Oxygen	8.6		mg/L		SM 4500-O-G
Field pH	Field pH	7.78		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	734		µS/cm		SM 2510
Field Temperature	Field Temperature	17.4		° C		EPA 170.1
Field Turbidity	Field Turbidity	2.03		NTU		EPA 180.1
Hardness as CaCO3 Dissolved-N	Hardness as CaCO3	268		mg/L		SM 2340-B
Hardness as CaCO3-TR-N	Hardness as CaCO3	247		mg/L		SM 2340-B
Oxidation Reduction Potential	Oxidation Reduction Potential	64		mV		Not Applicable

DRAFT

Sample: AB70472

Customer #: 1201182

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 4/9/2012 1:38:00PM
Entry Point:
Sample Comment: Grab sample #1201182. SW03, collected at Southside of Bailey Road Bridge.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Dissolved	Arsenic	1.92		µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Cadmium	<0.1	ND	µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Copper	3.92		µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Lead	<0.5	ND	µg/L	15,695	SW 846 6020

120413006

Sample: AB70472

Customer #: 1201182

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 4/9/2012 1:38:00PM
Entry Point:
Sample Comment: Grab sample #1201182. SW03, collected at Southside of Bailey Road Bridge.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Dissolved	Zinc	12.3		µg/L	15,695	SW 846 6020
6020 Metals-Total Recoverable	Arsenic	1.70		µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	<0.10	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Copper	5.66		µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Lead	2.29		µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Zinc	12.2		µg/L	15,703	SW 846 6020
CMNK 6010B Dissolved	Calcium	77.6		mg/L	15,734	SW 846 6010B
CMNK 6010B Dissolved	Magnesium	35.5		mg/L	15,734	SW 846 6010B
CMNK 6010B Total Recoverable	Calcium	76.4		mg/L	15,735	SW 846 6010B
CMNK 6010B Total Recoverable	Magnesium	35.6		mg/L	15,735	SW 846 6010B
Field Dissolved Oxygen	Field Dissolved Oxygen	7.4		mg/L		SM 4500-O-G
Field pH	Field pH	7.66		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	829		µS/cm		SM 2510
Field Temperature	Field Temperature	18.0		° C		EPA 170.1
Field Turbidity	Field Turbidity	4.83		NTU		EPA 180.1
Hardness as CaCO3 Dissolved-N	Hardness as CaCO3	340		mg/L		SM 2340-B
Hardness as CaCO3-TR-N	Hardness as CaCO3	337		mg/L		SM 2340-B
Oxidation Reduction Potential	Oxidation Reduction Potential	32		mV		Not Applicable

DRAFT

Sample: AB70473

Customer #: 1201183

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 4/9/2012 12:00:00AM
Entry Point:
Sample Comment: Grab sample #1201183. Blind Duplicate.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Dissolved	Arsenic	1.07		µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Cadmium	0.65		µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Copper	12.7		µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Lead	1.12		µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Zinc	40.8		µg/L	15,695	SW 846 6020
6020 Metals-Total Recoverable	Arsenic	0.84	05	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	1.39		µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Copper	29.3		µg/L	15,703	SW 846 6020

Sample: AB70473
Customer #: 1201183

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 4/9/2012 12:00:00AM
Entry Point:
Sample Comment: Grab sample #1201183. Blind Duplicate.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Total Recoverable	Lead	56.1		µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Zinc	69.3		µg/L	15,703	SW 846 6020
CMNK 6010B Dissolved	Calcium	119		mg/L	15,734	SW 846 6010B
CMNK 6010B Dissolved	Magnesium	50.4		mg/L	15,734	SW 846 6010B
CMNK 6010B Total Recoverable	Calcium	121		mg/L	15,735	SW 846 6010B
CMNK 6010B Total Recoverable	Magnesium	51.1		mg/L	15,735	SW 846 6010B
Hardness as CaCO3 Dissolved-N	Hardness as CaCO3	505		mg/L		SM 2340-B
Hardness as CaCO3-TR-N	Hardness as CaCO3	513		mg/L		SM 2340-B

Sample: AB70474
Customer #: 1201184

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 4/9/2012 4:54:00PM
Entry Point:
Sample Comment: Grab sample #1201184, Rinsate Blank

DRAFT

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Total Recoverable	Arsenic	<0.50	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	<0.10	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Copper	<0.50	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Lead	<0.50	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Zinc	0.83	05	µg/L	15,703	SW 846 6020

Sample: AB70475
Customer #: 1201185

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 4/9/2012 5:45:00PM
Entry Point:
Sample Comment: Grab sample #1201185, SW04 collected from stream in Sunset Park.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Dissolved	Arsenic	1.45		µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Cadmium	<0.1	ND	µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Copper	2.41		µg/L	15,695	SW 846 6020

Sample: AB70475

Customer #: 1201185

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 4/9/2012 5:45:00PM
Entry Point:
Sample Comment: Grab sample #1201185, SW04 collected from stream in Sunset Park.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Dissolved	Lead	<0.5	ND	µg/L	15,695	SW 846 6020
6020 Metals-Dissolved	Zinc	12.6		µg/L	15,695	SW 846 6020
6020 Metals-Total Recoverable	Arsenic	1.36		µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	<0.10	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Copper	2.41		µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Lead	3.10		µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Zinc	15.3		µg/L	15,703	SW 846 6020
CMNK 6010B Dissolved	Calcium	101		mg/L	15,734	SW 846 6010B
CMNK 6010B Dissolved	Magnesium	45.6		mg/L	15,734	SW 846 6010B
CMNK 6010B Total Recoverable	Calcium	95.5		mg/L	15,735	SW 846 6010B
CMNK 6010B Total Recoverable	Magnesium	42.9		mg/L	15,735	SW 846 6010B
Field Dissolved Oxygen	Field Dissolved Oxygen	8.3		mg/L		SM 4500-O-G
Field pH	Field pH	7.88		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	989		µS/cm		SM 2510
Field Temperature	Field Temperature	14.6		° C		EPA 170.1
Field Turbidity	Field Turbicity	1.21		NTU		EPA 180.1
Hardness as CaCO3 Dissolved-N	Hardness as CaCO3	440		mg/L		SM 2340-B
Hardness as CaCO3-TR-N	Hardness as CaCO3	415		mg/L		SM 2340-B
Oxidation Reduction Potential	Oxidation Reduction Potential	0		mV		Not Applicable

DRAFT

Sample: AB70476

Customer #: 1201186

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 4/10/2012 4:18:00PM
Entry Point:
Sample Comment: Grab sample #1201186, Rinsate Blank

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Total Recoverable	Arsenic	<0.50	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	<0.10	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Copper	<0.50	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Lead	<0.50	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Zinc	1.27		µg/L	15,703	SW 846 6020

Sample: AB70477

Customer #: 1201187

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 4/11/2012 4:12:00PM
Entry Point:
Sample Comment: Grab sample #1201187, Rinsate Blank.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Total Recoverable	Arsenic	<0.50	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	<0.10	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Copper	<0.50	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Lead	<0.50	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Zinc	1.94		µg/L	15,703	SW 846 6020

Sample: AB70478

Customer #: 1201188

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 4/12/2012 2:48:00PM
Entry Point:
Sample Comment: Grab sample #1201188, Rinsate Blank.

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Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Total Recoverable	Arsenic	<0.50	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	<0.10	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Copper	<0.50	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Lead	<0.50	ND	µg/L	15,703	SW 846 6020
6020 Metals-Total Recoverable	Zinc	<0.50	ND	µg/L	15,703	SW 846 6020

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S Environmental Protection Agency.

Chris Boldt

Chris Boldt, Laboratory Manager
Environmental Services Program
Division of Environmental Quality

Qualifier Descriptions

01 Improper collection method
02 Improper preservation
03 Exceeded holding time
04 Analyzed by Contract Laboratory
05 Estimated value, detected below PQL
06 Estimated value, QC data outside limits
07 Estimated value, analyte outside calibration range
08 Analyte present in blank at > 1/2 reported value
09 Sample was diluted during analysis
10 Laboratory error
11 Estimated value, matrix interference
12 Insufficient quantity
13 Estimated value, true result is >= reported value
14 Estimated value, non-homogeneous sample
15 No Result - Failed Quality Controls Requirements
16 Not analyzed - related analyte not detected
17 Results in dry weight
18 Sample pH is outside the acceptable range
19 Estimated value
20 Not analyzed - Instrument failure
21 No result - spectral interference
22 pH was performed at the Laboratory
23 Contract Lab specific qualifier - see sample comments
24 No result - matrix interference
25 No Result: Excessive Chlorination
26 No Result: Excessive Dechlorination
ND Not detected at reported value

120413006

Missouri Department of Natural Resources
Environmental Services Program

Order ID 120608008 **Program, Contact:** HWP Julieann Warren

Report Date: 06/25/2012 **LDPR/JobCode:** FEPA5 / NJ12SHAP

Sample: AB76419

Customer #: H1000001

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrapyard
Sample Reference ID: 110
Collector: MICHAEL STROH
Affiliation: HWP
Collect Date: 4/10/2012 8:40:00AM
Entry Point:
Sample Comment: Composite, SU1.

DRAFT

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	5220		µg/kg	16,507	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	16200		µg/kg	16,507	SW 846 6010B
6010B Metals-Total Recoverable	Lead	1620000		µg/kg	16,507	SW 846 6010B
BNAs	1,2,4-Trichlorobenzene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	1,2-Dichlorobenzene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	1,3-Dichlorobenzene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	1,4-Dichlorobenzene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	2,4,5-Trichlorophenol	<50	ND, 03	µg/kg	16,513	8270C
BNAs	2,4,6-Trichlorophenol	<100	ND, 03	µg/kg	16,513	8270C
BNAs	2,4-Dichlorophenol	<50	ND, 03	µg/kg	16,513	8270C
BNAs	2,4-Dimethylphenol	<50	ND, 03	µg/kg	16,513	8270C
BNAs	2,4-Dinitrophenol	<500	ND, 03	µg/kg	16,513	8270C
BNAs	2,4-Dinitrotoluene	<200	ND, 03	µg/kg	16,513	8270C
BNAs	2,6-Dinitrotoluene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	2-Chloronaphthalene	<100	ND, 03	µg/kg	16,513	8270C
BNAs	2-Chlorophenol	<50	ND, 03	µg/kg	16,513	8270C
BNAs	2-Methyl-4,6-dinitrophenol	<200	ND, 03	µg/kg	16,513	8270C
BNAs	2-Methylnaphthalene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	2-Methylphenol	<50	ND, 03	µg/kg	16,513	8270C
BNAs	2-Nitroaniline	<50	ND, 03	µg/kg	16,513	8270C
BNAs	2-Nitrophenol	<50	ND, 03	µg/kg	16,513	8270C
BNAs	3,3-Dichlorobenzidine	<50	ND, 03	µg/kg	16,513	8270C
BNAs	3-Nitroaniline	<50	ND, 03	µg/kg	16,513	8270C
BNAs	4-Bromophenyl phenyl ether	<50	ND, 03	µg/kg	16,513	8270C
BNAs	4-Chloro-3-methylphenol	<50	ND, 03	µg/kg	16,513	8270C
BNAs	4-Chloroaniline	<50	ND, 03	µg/kg	16,513	8270C

Sample: AB76419

Customer #: H1000001

Facility ID:
County: Jefferson
Collector: MICHAEL STROH
Entry Point:
Sample Comment: Composite, SU1.

Site: Shapiro Brothers Scrapyard
Sample Reference ID: 110
Affiliation: HWP

Collect Date: 4/10/2012 8:40:00AM

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	4-Chlorophenyl phenyl ether	<100	ND, 03	µg/kg	16,513	8270C
BNAs	4-Methylphenol	<100	ND, 03	µg/kg	16,513	8270C
BNAs	4-Nitroaniline	<50	ND, 03	µg/kg	16,513	8270C
BNAs	4-Nitrophenol	<100	ND, 03	µg/kg	16,513	8270C
BNAs	Acenaphthene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Acenaphthylene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Anthracene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	azobenzene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Benzo(a)anthracene	833	03	µg/kg	16,513	8270C
BNAs	Benzo(a)pyrene	1590	03	µg/kg	16,513	8270C
BNAs	Benzo(b)fluoranthene	1200	03	µg/kg	16,513	8270C
BNAs	Benzo(ghi)perylene	852	03	µg/kg	16,513	8270C
BNAs	Benzo(k)fluoranthene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Benzoic Acid	<100	ND, 03	µg/kg	16,513	8270C
BNAs	bis(2-Chloroethoxy)methane	<200	ND, 03	µg/kg	16,513	8270C
BNAs	bis(2-Chloroethyl)ether	<50	ND, 03	µg/kg	16,513	8270C
BNAs	bis(2-chloroisopropyl)ether	<50	ND, 03	µg/kg	16,513	8270C
BNAs	bis(2-Ethylhexyl) phthalate	<100	ND, 03	µg/kg	16,513	8270C
BNAs	Butyl benzyl phthalate	<100	ND, 03	µg/kg	16,513	8270C
BNAs	Chrysene	1180	03	µg/kg	16,513	8270C
BNAs	Dibenzo(a,h)anthracene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Dibenzofuran	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Diethyl phthalate	<200	ND, 03	µg/kg	16,513	8270C
BNAs	Dimethyl phthalate	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Di-n-butyl phthalate	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Di-n-octyl phthalate	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Fluoranthene	2000	03	µg/kg	16,513	8270C
BNAs	Fluorene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Hexachlorobenzene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Hexachlorobutadiene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Hexachlorocyclopentadiene	<100	ND, 03	µg/kg	16,513	8270C
BNAs	Hexachloroethane	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Indeno(1,2,3-cd)pyrene	1130	03	µg/kg	16,513	8270C
BNAs	Isophorone	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Naphthalene	<50	ND, 03	µg/kg	16,513	8270C

DRAFT

Sample: AB76419
Customer #: H1000001

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrapyard
Sample Reference ID: 110
Collector: MICHAEL STROH
Affiliation: HWP
Collect Date: 4/10/2012 8:40:00AM
Entry Point:
Sample Comment: Composite, SU1.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
BNAs	Nitrobenzene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	n-Nitroso-di-n-propylamine	<50	ND, 03	µg/kg	16,513	8270C
BNAs	n-Nitrosodiphenylamine	<500	ND, 03	µg/kg	16,513	8270C
BNAs	Pentachlorophenol	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Phenanthrene	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Phenol	<50	ND, 03	µg/kg	16,513	8270C
BNAs	Pyrene	1640		µg/kg	16,513	8270C
Percent Moisture	Percent Moisture	1.9		%	16,388	Infrared Drying

Sample: AB76420
Customer #: H1000002

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrapyard
Sample Reference ID: 115
Collector: MICHAEL STROH
Affiliation: HWP
Collect Date: 4/10/2012 9:55:00AM
Entry Point:
Sample Comment: Composite, SU1 Replicate 3.

DRAFT

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	4810		µg/kg	16,507	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	18600	09	µg/kg	16,507	SW 846 6010B
6010B Metals-Total Recoverable	Lead	2360000		µg/kg	16,507	SW 846 6010B
Percent Moisture	Percent Moisture	1.8		%	16,388	Infrared Drying

Sample: AB76421
Customer #: H1000003

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrapyard
Sample Reference ID: 103
Collector: MICHAEL STROH
Affiliation: HWP
Collect Date: 4/9/2012 4:45:00PM
Entry Point:
Sample Comment: Composite, SU1, Replicate 3.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	4690		µg/kg	16,507	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	10500		µg/kg	16,507	SW 846 6010B
6010B Metals-Total Recoverable	Lead	1250000		µg/kg	16,507	SW 846 6010B
Organochlorine Pesticides	4,4-DDD	<5.08	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	4,4-DDE	<5.08	ND, 03	µg/kg	16,452	8081A

Sample: AB76421

Customer #: H1000003

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrapyard
Sample Reference ID: 103
Collector: MICHAEL STROH
Affiliation: HWP
Collect Date: 4/9/2012 4:45:00PM
Entry Point:
Sample Comment: Composite, SU1, Replicate 3.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Organochlorine Pesticides	4,4-DDT	<5.08	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	Aldrin	<5.08	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	alpha-BHC	<5.08	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	beta-BHC	<5.08	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	Chlordane	<50.8	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	delta-BHC	<5.08	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	Dieldrin	<5.08	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	Endosulfan I	<5.08	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	Endosulfan II	<5.08	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	Endosulfan sulfate	<5.08	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	Endrin	<5.08	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	Endrin aldehyde	<5.08	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	gamma-BHC (Lindane)	<5.08	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	Heptachlor	<5.08	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	Heptachlor Epoxide	<5.08	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	Methoxychlor	<5.08	ND, 03	µg/kg	16,452	8081A
Organochlorine Pesticides	Toxaphene	<50.8	ND, 03	µg/kg	16,452	8081A
Percent Moisture	Percent Moisture	1.6		%	16,388	Infrared Drying

DRAFT

Sample: AB76422

Customer #: H1000004

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrapyard
Sample Reference ID: 300
Collector: MICHAEL STROH
Affiliation: HWP
Collect Date: 4/9/2012 10:25:00AM
Entry Point:
Sample Comment: Composite, Background.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	1640	05	µg/kg	16,507	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	653		µg/kg	16,507	SW 846 6010B
6010B Metals-Total Recoverable	Lead	45300		µg/kg	16,507	SW 846 6010B
Percent Moisture	Percent Moisture	4.9		%	16,388	Infrared Drying

Sample: AB76423
Customer #: H1000005

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrapyard
Sample Reference ID: 301
Collector: MICHAEL STROH
Affiliation: HWP
Collect Date: 4/9/2012 5:30:00PM
Entry Point:
Sample Comment: Composite, background.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	4050		µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	810		µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Lead	98600		µg/kg	16,496	SW 846 6010B
Percent Moisture	Percent Moisture	6.9		%	16,388	Infrared Drying

Sample: AB76424
Customer #: H1000006

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrapyard
Sample Reference ID: 302
Collector: MICHAEL STROH
Affiliation: HWP
Collect Date: 4/9/2012 6:02:00PM
Entry Point:
Sample Comment: Composite, background

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Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	1690	05	µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	844		µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Lead	54800		µg/kg	16,496	SW 846 6010B
Percent Moisture	Percent Moisture	6.8		%	16,388	Infrared Drying

Sample: AB76425
Customer #: H1000007

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrapyard
Sample Reference ID: 133
Collector: MICHAEL STROH
Affiliation: HWP
Collect Date: 4/10/2012 4:08:00PM
Entry Point:
Sample Comment: Composite, SU2

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	3490		µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	2960		µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Lead	237000		µg/kg	16,496	SW 846 6010B
Percent Moisture	Percent Moisture	4.0		%	16,388	Infrared Drying

Sample: AB76426

Customer #: H1000008

Facility ID:
County: Jefferson
Collector: MICHAEL STROH
Entry Point:
Sample Comment: Composite, SU1. Replicate 1.

Site: Shapiro Brothers Scrapyard
Sample Reference ID: 146
Affiliation: HWP
Collect Date: 4/10/2012 2:55:00PM

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	8860		µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	4390		µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Lead	453000		µg/kg	16,496	SW 846 6010B
Percent Moisture	Percent Moisture	3.4		%	16,388	Infrared Drying

Sample: AB76427

Customer #: H1000009

Facility ID:
County: Jefferson
Collector: MICHAEL STROH
Entry Point:
Sample Comment: Composite, SU2.

Site: Shapiro Brothers Scrapyard
Sample Reference ID: 105
Affiliation: HWP
Collect Date: 4/10/2012 11:20:00AM

DRAFT

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	5990		µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	4960		µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Lead	494000		µg/kg	16,496	SW 846 6010B
Percent Moisture	Percent Moisture	8.7		%	16,388	Infrared Drying

Sample: AB76428

Customer #: H1000010

Facility ID:
County: Jefferson
Collector: MICHAEL STROH
Entry Point:
Sample Comment: Composite, SU1. Replicate 2.

Site: Shapiro Brothers Scrapyard
Sample Reference ID: 160
Affiliation: HWP
Collect Date: 4/12/2012 2:00:00PM

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	1870	05	µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	8260		µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Lead	992000		µg/kg	16,496	SW 846 6010B
Percent Moisture	Percent Moisture	2.5		%	16,388	Infrared Drying

Sample: AB76429
Customer #: H1000011

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrapyard
Sample Reference ID: 106
Collector: MICHAEL STROH
Affiliation: HWP
Collect Date: 4/10/2012 12:40:00PM
Entry Point:
Sample Comment: Composite, SU1.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	2510		µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	5790		µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Lead	683000		µg/kg	16,496	SW 846 6010B
Percent Moisture	Percent Moisture	2.7		%	16,388	Infrared Drying

Sample: AB76430
Customer #: H1000012

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrapyard
Sample Reference ID: 217
Collector: MICHAEL STROH
Affiliation: HWP
Collect Date: 4/11/2012 4:00:00PM
Entry Point:
Sample Comment: Composite, SU1.

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Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	2340	05	µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	3720		µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Lead	421000		µg/kg	16,496	SW 846 6010B
Percent Moisture	Percent Moisture	2.3		%	16,388	Infrared Drying

Sample: AB76431
Customer #: H1000013

Facility ID:
County: Jefferson
Site: Shapiro Brothers Scrapyard
Sample Reference ID: 119
Collector: MICHAEL STROH
Affiliation: HWP
Collect Date: 4/11/2012 10:43:00AM
Entry Point:
Sample Comment: Composite, SU1.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	7990		µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	4730		µg/kg	16,496	SW 846 6010B
6010B Metals-Total Recoverable	Lead	450000		µg/kg	16,496	SW 846 6010B
Percent Moisture	Percent Moisture	3.0		%	16,388	Infrared Drying

Sample: **AB76432**

Customer #: H1000014

Facility ID:
County: Jefferson
Collector: MICHAEL STROH
Entry Point:
Sample Comment: Composite, Beneath Transformer Pad.

Site: Shapiro Brothers Scrapyard
Sample Reference ID:
Affiliation: HWP
Collect Date: 4/10/2012 8:05:00AM

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
PCBs	Aroclor 1016 (PCB-1016)	<10.08	ND, 03	µg/kg	16,441	8082
PCBs	Aroclor 1221 (PCB-1221)	<10.08	ND, 03	µg/kg	16,441	8082
PCBs	Aroclor 1232 (PCB-1232)	<10.08	ND, 03	µg/kg	16,441	8082
PCBs	Aroclor 1242 (PCB-1242)	<10.08	ND, 03	µg/kg	16,441	8082
PCBs	Aroclor 1248 (PCB-1248)	<10.08	ND, 03	µg/kg	16,441	8082
PCBs	Aroclor 1254 (PCB-1254)	<10.08	ND, 03	µg/kg	16,441	8082
PCBs	Aroclor 1260 (PCB-1260)	<10.08	ND, 03	µg/kg	16,441	8082
Percent Moisture	Percent Moisture	0.8		%	16,388	Infrared Drying

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S Environmental Protection Agency.

DRAFT

Chris Boldt

Chris Boldt, Laboratory Manager
Environmental Services Program
Division of Environmental Quality

Qualifier Descriptions

01 Improper collection method
02 Improper preservation
03 Exceeded holding time
04 Analyzed by Contract Laboratory
05 Estimated value, detected below PQL
06 Estimated value, QC data outside limits
07 Estimated value, analyte outside calibration range
08 Analyte present in blank at > 1/2 reported value
09 Sample was diluted during analysis
10 Laboratory error
11 Estimated value, matrix interference
12 Insufficient quantity
13 Estimated value, true result is >= reported value
14 Estimated value, non-homogeneous sample
15 No Result - Failed Quality Controls Requirements
16 Not analyzed - related analyte not detected
17 Results in dry weight
18 Sample pH is outside the acceptable range
19 Estimated value
20 Not analyzed - Instrument failure
21 No result - spectral interference
22 pH was performed at the Laboratory
23 Contract Lab specific qualifier - see sample comments
24 No result - matrix interference
25 No Result: Excessive Chlorination
26 No Result: Excessive Dechlorination
ND Not detected at reported value

120608008

Analytical Resources, Incorporated
Analytical Chemists and Consultants

July 2, 2012

Curt Lueckenhoff
DEQ – HWP
1730 East Elm Street
Jefferson City, MO 65101

ARI Job No.: UY23

Dear Mr. Lueckenhoff:

Please find enclosed the original Chain-of-Custody record (COC), sample receipt documentation, and the final data for the project referenced above. Analytical Resources, Inc. (ARI) accepted one soil sample on June 13, 2012. For further details regarding sample receipt please refer to the enclosed Cooler Receipt Form.

The sample was analyzed for PBDEs, as requested on the COC.

An electronic copy of this report and all supporting raw data will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

DRAFT

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

eFile: UY23

Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: UY23
Client: Missouri Department of Natural R
Project Event: N/A
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	1201172	UY23A	12-10736	Soil	01/11/12 13:30	06/13/12 09:40

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

U — Indicates that the target analyte was not detected at the reported concentration

* — Duplicate RPD is not within established control limits

B — Reported value is less than the CRDL but ≥ the Reporting Limit

N — Matrix Spike recovery not within established control limits

NA — Not Applicable, analyte not spiked

H — The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L — Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U — Indicates that the target analyte was not detected at the reported concentration

* — Flagged value is not within established control limits

B — Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J — Estimated concentration when the value is less than ARI's established reporting limits

D — The spiked compound was not detected due to sample extract dilution

E — Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

Q — Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20%Drift or minimum RRF).

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S	Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
NA	The flagged analyte was not analyzed for
NR	Spiked compound recovery is not reported due to chromatographic interference
NS	The flagged analyte was not spiked into the sample
M	Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
M2	The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
Y	The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
EMPC	Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
C	The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
P	The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference
X	Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
Z	Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**

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Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

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UY23:00008

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PBDE by GC/ECD Method SW8082
Extraction Method: SW3546

Sample ID: 1201172
SAMPLE

Lab Sample ID: UY23A
LIMS ID: 12-10736
Matrix: Soil
Data Release Authorized:
Reported: 06/28/12

QC Report No: UY23-Missouri Department of Natural R
Project:

Date Sampled: 01/11/12
Date Received: 06/13/12

Date Extracted: 06/20/12
Date Analyzed: 06/22/12 16:01
Instrument/Analyst: ECD6/PK
GPC Cleanup: No
Silica Gel: Yes
Acid Cleanup: No

Sample Amount: 0.79 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 10.0
Percent Moisture: 23.7%

CAS Number	Analyte	RL	Result
5436-43-1	PBDE-47	63	1,300 P
60348-60-9	PBDE-99	63	1,600 P
1163-19-5	PBDE-209	63	8,800

Reported in µg/kg (ppb)

PBDE Surrogate Recovery

2,2',3,3',4,4',5,6-Octachlorob	110%

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ANALYTICAL RESOURCES INCORPORATED

SW8082/PBDE SOIL/SOLID SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: UY23-Missouri Department of Natural R
Project:

Client ID	PCB-195	TOT OUT
MB-062012	82.0%	0
LCS-062012	81.0%	0
1201172	110%	0

	LCS/MB LIMITS	QC LIMITS
(PCB-195) = 2,2',3,3',4,4',5,6-Octachlor	(30-160)	(30-160)

Prep Method: SW3546
Log Number Range: 12-10736 to 12-10736

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FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PBDE by GC/ECD Method SW8082

Sample ID: LCS-062012
LCS/LCSD

Lab Sample ID: LCS-062012
LIMS ID: 12-10736
Matrix: Soil
Data Release Authorized:
Reported: 06/29/12

QC Report No: UY23-Missouri Department of Natural R
Project:

Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 06/20/12

Date Analyzed LCS: 06/22/12 13:54
Instrument/Analyst LCS: ECD6/PK
GPC Cleanup: No
Silica Gel: Yes
Acid Cleanup: No

Sample Amount LCS: 10.0 g-dry-wt
LCSD: 10.0 g-dry-wt
Final Extract Volume LCS: 1.0 mL
Dilution Factor LCS: 1.00

Analyte	Lab Control	Spike Added	Recovery
PBDE-209	23.3	25.0	93.2%
PBDE-47	4.27	5.00	85.4%
PBDE-99	4.26	5.00	85.2%

PBDE Surrogate Recovery

2,2',3,3',4,4',5,6-Octach	81.0%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PBDE by GC/ECD Method SW8082
Extraction Method: SW3546

Sample ID: MB-062012
METHOD BLANK

Lab Sample ID: MB-062012
LIMS ID: 12-10736
Matrix: Soil
Data Release Authorized:
Reported: 06/28/12

QC Report No: UY23-Missouri Department of Natural R
Project:

Date Sampled: NA
Date Received: NA

Date Extracted: 06/20/12
Date Analyzed: 06/22/12 12:51
Instrument/Analyst: ECD6/PK
GPC Cleanup: No
Silica Gel: Yes
Acid Cleanup: No

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
5436-43-1	PBDE-47	0.5	< 0.5 U
60348-60-9	PBDE-99	0.5	< 0.5 U
1163-19-5	PBDE-209	0.5	< 0.5 U

Reported in µg/kg (ppb)

PBDE Surrogate Recovery

2,2',3,3',4,4',5,6-Octachlorob	82.0%

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FORM I

APPENDIX C

Chain of Custody

Shapiro Brothers Salvage Yard Site

Festus, Jefferson County, MO

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MISSOURI DEPARTMENT OF NATURAL RESOURCES

FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

AB65041

LABORATORY ORDER ID: _____

Collector's Name: Transfer Chain of Custody to Analytical Resources Inc.
(Please Print)

Affiliation: ESP KCRO NERO SERO SLRO SWRO WPP DGLS HWP Other:
(circle one)

Description of Shipment
x Shipped-Carrier: UPS
X Tape sealed and initialed
Hand Delivered
No. Of Containers:

Sample Number	Sample Collected	Analyses						Sample Type	For Lab Use Only: Matrix	Container	Preserved
1201172 (Sample A)	Date: 01/11/12	PBDE by Modified EPA Method 8080						Grab / Composite / Modified / Other:	Water / Soil / Organic / Sludge / Other:	1L amber / Cubitainer / 2 oz glass / 8 oz glass / VOA vial / Encore / Other:	H_2SO_4 / HNO_3 / NAOH / HCL / 4°C(None) / Disinfected / Other
For Lab Use Only AB65041	Time: 13:30	D.O	Flow	pH	Spec. Cond.	Temp.	Other:				
(Sample B)	Date:							Grab / Composite / Modified / Other:	Water / Soil / Organic / Sludge / Other:	1L amber / Cubitainer / 2 oz glass / 8 oz glass / VOA vial / Encore / Other:	H_2SO_4 / HNO_3 / NAOH / HCL / 4°C(None) / Disinfected / Other
For Lab Use Only	Time:	D.O	Flow	pH	Spec. Cond.	Temp.	Other:				
(Sample C)	Date:							Grab / Composite / Modified / Other:	Water / Soil / Organic / Sludge / Other:	1L amber / Cubitainer / 2 oz glass / 8 oz glass / VOA vial / Encore / Other:	H_2SO_4 / HNO_3 / NAOH / HCL / 4°C(None) / Disinfected / Other
For Lab Use Only	Time:	D.O	Flow	pH	Spec. Cond.	Temp.	Other:				
(Sample D)	Date:							Grab / Composite / Modified / Other:	Water / Soil / Organic / Sludge / Other:	1L amber / Cubitainer / 2 oz glass / 8 oz glass / VOA vial / Encore / Other:	H_2SO_4 / HNO_3 / NAOH / HCL / 4°C(None) / Disinfected / Other
For Lab Use Only	Time:	D.O	Flow	pH	Spec. Cond.	Temp.	Other:				

Relinquished By:	Received By:	Date:	Time:
[signature]	UPS	6/12/12	14:15
Relinquished By:	Received By: [signature]	Date: 6/13/12	Time: 940
Relinquished By:	Received By:	Date:	Time:

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UY23 : 00002

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Description of Delivery
Tape sealed and initialed
Shipped
X Hand Delivered
Total No. Of Containers: 8
Carrier:
By:

Collector's Name: Sean Counihan
(Please Print)

Affiliation: KCRO NERO SERO SLRO SWRO WPP DGLS HWP ESP MoDOT
(circle one) MDC DHSS Other:

LAB USE ONLY!
Laboratory ID: 12011 2002
Location: B-16

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type (circle one)	Field Parameters (include units)	Matrix (circle one)	Container Type	Preservative Type	Number of Containers
1201152 (Sample A) / For Lab Use Only: AB65031	Date: 1/11/2012 / Time: 1055	organochlorine pesticides, BNAs, PCBs	None; Cl_2; UV; Ozone; Other:	D.O.; Flow; pH; Cond.; Temp.; Other:	Water; Soil; Organic; Sludge; Other:	8oz CG	4C	2
1201154 (Sample B) / For Lab Use Only: AB65032	Date: 1/11/2012 / Time: 1130	organochlorine pesticides, BNAs, PCBs	None; Cl_2; UV; Ozone; Other:	D.O.; Flow; pH; Cond.; Temp.; Other:	Water; Soil; Organic; Sludge; Other:	8oz CG	4C	2
1201156 (Sample C) / For Lab Use Only: AB65033	Date: 1/11/2012 / Time: 1100	organochlorine pesticides, BNAs, PCBs	None; Cl_2; UV; Ozone; Other:	D.O.; Flow; pH; Cond.; Temp.; Other:	Water; Soil; Organic; Sludge; Other:	8oz CG	4C	2
1201158 (Sample D) / For Lab Use Only: AB65034	Date: 1/11/2012 / Time: 1135	organochlorine pesticides, BNAs, PCBs	None; Cl_2; UV; Ozone; Other:	D.O.; Flow; pH; Cond.; Temp.; Other:	Water; Soil; Organic; Sludge; Other:	8oz CG	4C	2

Relinquished By:	Received By:	Date:	Time:
[signature]	[signature]	1-12-12	0837
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

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MISSOURI DEPARTMENT OF NATURAL RESOURCES

FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers Scrap Yard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab **[Composite]** Modified Other:

Sample # 1201152, Collected from sediment/soil stored in Super Sacks from truck wash station, TW 1-4 and new sack being filled

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy	(circle one) EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	**[Soil]**
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
[Investigation]	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample B	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers Scrap Yard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab **[Composite]** Modified Other:

Sample # 1201154, Collected from sediment/soil stored in Super Sacks from truck wash station, TW 5-8

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy	(circle one) EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	**[Soil]**
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
[Investigation]	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample C	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers Scrap Yard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab **[Composite]** Modified Other:

Sample # 1201156, Collected from sediment/soil stored in Super Sacks from truck wash station, TW 9-12

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy	(circle one) EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	**[Soil]**
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
[Investigation]	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample D	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers Scrap Yard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab **[Composite]** Modified Other:

Sample # 1201158, Collected from sediment/soil stored in Super Sacks from street sweepings. SS. A,B,C,D

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy	(circle one) EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	**[Soil]**
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
[Investigation]	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

TCLP if applicable

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Description of Delivery
Tape sealed and initialed
Shipped
X Hand Delivered
Total No. Of Containers: 8
Carrier:
By:

Collector's Name: Sean Counihan
(Please Print)

Affiliation: *(circle one)* KCRO NERO SERO SLRO SWRO WPP DGLS HWP ESP MoDOT MDC DHSS Other:

LAB USE ONLY!
Laboratory ID: 120112002
Location: B-16

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type (circle one)	Field Parameters (include units)	Matrix (circle one)	Container Type	Preservative Type	Number of Containers
1201160 (Sample A) / For Lab Use Only: AB65035	Date: 1/11/2012 Time: 1155	organochlorine pesticides, BNAs, PCBs	None; Cl_2; UV; Ozone; Other:	D.O.; Flow; pH; Cond.; Temp.; Other:	Water; Soil; Organic; Sludge; Other:	8oz CG	4C	2
1201162 (Sample B) / For Lab Use Only: AB65036	Date: 1/11/2012 Time: 1210	organochlorine pesticides, BNAs, PCBs	None; Cl_2; UV; Ozone; Other:	D.O.; Flow; pH; Cond.; Temp.; Other:	Water; Soil; Organic; Sludge; Other:	8oz CG	4C	2
1201164 (Sample C) / For Lab Use Only: AB65037	Date: 1/11/2012 Time: 1225	organochlorine pesticides, BNAs, PCBs	None; Cl_2; UV; Ozone; Other:	D.O.; Flow; pH; Cond.; Temp.; Other:	Water; Soil; Organic; Sludge; Other:	8oz CG	4C	2
1201166 (Sample D) / For Lab Use Only: AB65038	Date: 1/11/2012 Time: 1233	organochlorine pesticides, BNAs, PCBs	None; Cl_2; UV; Ozone; Other:	D.O.; Flow; pH; Cond.; Temp.; Other:	Water; Soil; Organic; Sludge; Other:	8oz CG	4C	2

Relinquished By:	Received By:	Date: 1-12-12	Time: 0837
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

DRAFT

MISSOURI DEPARTMENT OF NATURAL RESOURCES

FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A

LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID:	
Facility ID:	Site/Study Name: Shapiro Brothers Scrap Yard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab **[Composite]** Modified Other:

Sample # 1201160, Surface soil collected from north end of the old railroad spur on east side of property

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	**[Soil]**
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
[Investigation]	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample B

LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID:	
Facility ID:	Site/Study Name: Shapiro Brothers Scrap Yard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab **[Composite]** Modified Other:

Sample # 1201162, Surface soil collected from eastern roadway across from maintenance building

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	**[Soil]**
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
[Investigation]	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample C

LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID:	
Facility ID:	Site/Study Name: Shapiro Brothers Scrap Yard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab **[Composite]** Modified Other:

Sample # 1201164, Surface soil collected at the base of the first scrap pile on eastern edge, just north of the shear.

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	**[Soil]**
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
[Investigation]	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample D

LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID:	
Facility ID:	Site/Study Name: Shapiro Brothers Scrap Yard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab **[Composite]** Modified Other:

Sample # 1201166, Surface soil collected from eastern roadway at T-junction between scrap pile 1 and scrap pile 2

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	**[Soil]**
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
[Investigation]	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

TCLP if applicable

DRAFT

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Description of Delivery
____ Tape sealed and initialed — Total No. Of Containers: 7
____ Shipped — Carrier: ____
X Hand Delivered — By: ____

Collector's Name: Sean Counihan
(Please Print)

Affiliation: *(circle one)* KCRO NERO SERO SLRO SWRO WPP DGLS HWP ESP MoDOT MDC DHSS Other:

LAB USE ONLY!
Laboratory ID: 120112002
Location: 8-16

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type (circle one)	Field Parameters (include units)	Matrix (circle one)	Container Type	Preservative Type	Number of Containers
1201168 (Sample A) / For Lab Use Only: AB65039	Date: 1/11/2012 Time: 1254	organochlorine pesticides, BNAs, PCBs	None; Cl_2; UV; Ozone; Other:	D.O.; Flow; pH; Cond.; Temp.; Other:	Water; Soil; Organic; Sludge; Other:	8oz CG	4C	2
1201170 (Sample B) / For Lab Use Only: AB65040	Date: 1/11/2012 Time: 1312	organochlorine pesticides, BNAs, PCBs	None; Cl_2; UV; Ozone; Other:	D.O.; Flow; pH; Cond.; Temp.; Other:	Water; Soil; Organic; Sludge; Other:	8oz CG	4C	2
1201172 (Sample C) / For Lab Use Only: AB65041	Date: 1/11/2012 Time: 1330	organochlorine pesticides, BNAs, PCBs, dioxins and furans	None; Cl_2; UV; Ozone; Other:	D.O.; Flow; pH; Cond.; Temp.; Other:	Water; Soil; Organic; Sludge; Other:	8oz CG	4C	3
(Sample D) / For Lab Use Only	Date: Time:		None; Cl_2; UV; Ozone; Other:	D.O.; Flow; pH; Cond.; Temp.; Other:	Water; Soil; Organic; Sludge; Other:			

Relinquished By:	Received By:	Date: 1-12-12	Time: 0857
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

DRAFT

MISSOURI DEPARTMENT OF NATURAL RESOURCES

FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers Scrap Yard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab **Composite** Modified Other:

Sample # 1201167, Surface soil collected at the head of the eastern roadway, north of the shredder

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP
	728278.81	4234821.48		

Sample Event Type: (circle one)
Bypass/SSO, Complaint, Emergency Response, Inspection, **Investigation**, Monitoring, Special Project

Sample Type: (circle one)
Air, **Soil**, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample B	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers Scrap Yard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab **Composite** Modified Other:

Sample # 1201169, Sample of fluff from the fluff pile

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP
	728286.11	4234843.38		

Sample Event Type: (circle one)
Bypass/SSO, Complaint, Emergency Response, Inspection, **Investigation**, Monitoring, Special Project

Sample Type: (circle one)
Air, **Soil**, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample C	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers Scrap Yard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab **Composite** Modified Other:

Sample # 1201171, 0-12" depth sample collected from the bottom of the fluff pile.

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP
	728286.11	4234843.38		

Sample Event Type: (circle one)
Bypass/SSO, Complaint, Emergency Response, Inspection, **Investigation**, Monitoring, Special Project

Sample Type: (circle one)
Air, **Soil**, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample D	LDPR:	Job Code:	Sample Reference ID:
Facility ID:	Site/Study Name:	County:	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one)
Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one)
Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

TCLP if applicable

DRAFT

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Description of Delivery
Tape sealed and initialed
Shipped
X Hand Delivered
Total No. Of Containers: 7
Carrier:
By:

Collector's Name: Sean Counihan
(Please Print)

Affiliation: KCRO NERO SERO SLRO SWRO WPP DGLS HWP ESP MoDOT
(circle one) MDC DHSS Other:

LAB USE ONLY!
Laboratory ID: 12011 2002
Location: B-16

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type (circle one)	Field Parameters (include units)	Matrix (circle one)	Container Type	Preservative Type	Number of Containers
1201168 (Sample A) / For Lab Use Only: AB65039	Date: 1/11/2012 / Time: 1254	organochlorine pesticides, BNAs, PCBs	None; Cl_2; UV; Ozone; Other:	D.O.; Flow; pH; Cond.; Temp.; Other:	Water; Soil; Organic; Sludge; Other:	8oz CG	4C	2
1201170 (Sample B) / For Lab Use Only: AB65040	Date: 1/11/2012 / Time: 1312	organochlorine pesticides, BNAs, PCBs	None; Cl_2; UV; Ozone; Other:	D.O.; Flow; pH; Cond.; Temp.; Other:	Water; Soil; Organic; Sludge; Other:	8oz CG	4C	2
1201172 (Sample C) / For Lab Use Only: AB65041	Date: 1/11/2012 / Time: 1330	organochlorine pesticides, BNAs, PCBs, dioxins and furans; BM 7.18.17 PBDE by Modified EPA Method 8080	None; Cl_2; UV; Ozone; Other:	D.O.; Flow; pH; Cond.; Temp.; Other:	Water; Soil; Organic; Sludge; Other:	8oz CG	4C	3
(Sample D) / For Lab Use Only	Date: / Time:		None; Cl_2; UV; Ozone; Other:	D.O.; Flow; pH; Cond.; Temp.; Other:	Water; Soil; Organic; Sludge; Other:			

Relinquished By:	Received By:	Date: 1-12-12	Time: 0837
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A | **LDPR:** FEPA5 | **Job Code:** NJ12SHAP | **Sample Reference ID:**

Facility ID: | **Site/Study Name:** Shapiro Brothers Scrap Yard | **County:** Jefferson

Sample Comment (where and how the sample was collected): **Grab** **Composite** **Modified** **Other:**
Sample # 1201167, Surface soil collected at the head of the eastern roadway, north of the shredder

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy	(circle one)
	728278.81	4234821.48		EPE (meters) PDOP

Sample Event Type: (circle one)
Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one)
Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample B | **LDPR:** FEPA5 | **Job Code:** NJ12SHAP | **Sample Reference ID:**

Facility ID: | **Site/Study Name:** Shapiro Brothers Scrap Yard | **County:** Jefferson

Sample Comment (where and how the sample was collected): **Grab** **Composite** **Modified** **Other:**
Sample # 1201169, Sample of fluff from the fluff pile

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy	(circle one)
	728286.11	4234843.38		EPE (meters) PDOP

Sample Event Type: (circle one)
Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one)
Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample C | **LDPR:** FEPA5 | **Job Code:** NJ12SHAP | **Sample Reference ID:**

Facility ID: | **Site/Study Name:** Shapiro Brothers Scrap Yard | **County:** Jefferson

Sample Comment (where and how the sample was collected): **Grab** **Composite** **Modified** **Other:**
Sample # 1201171, 0-12" depth sample collected from the bottom of the fluff pile.

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy	(circle one)
	728286.11	4234843.38		EPE (meters) PDOP

Sample Event Type: (circle one)
Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one)
Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample D | **LDPR:** | **Job Code:** | **Sample Reference ID:**

Facility ID: | **Site/Study Name:** | **County:**

Sample Comment (where and how the sample was collected): **Grab** **Composite** **Modified** **Other:**

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy	(circle one)
				EPE (meters) PDOP

Sample Event Type: (circle one)
Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one)
Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

TCLP if applicable

PBDE requested by Michael Stoh on 120172 June 2012. BMfue 7/18/12

DRAFT

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Description of Delivery
Tape sealed and initialed — Total No. Of Containers: 8
Shipped — Carrier:
X Hand Delivered — By:

Collector's Name: (Please Print) Sean Counihan

Affiliation: (circle one) KCRO NERO SERO SLRO SWRO WPP DGLS HWP (ESP) MoDOT MDC DHSS Other:

LAB USE ONLY!
Laboratory ID: 1204130006
Location: B-13

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type (circle one)	Field Parameters (include units)		Matrix (circle one)	Container Type	Preservative Type	Number of Containers
1201180 (Sample A) / For Lab Use Only: AB70470	Date: 4/9/12 Time: 1238	Total + Dissolved Metals + Hardness (Ca, Cd, Cu, As, Pb, Mg, Zn)	(None) Cl2 UV Ozone Other:	D.O. 8.0 mg/L; Flow; pH 7.51; Cond. 1190 µS; Temp. 16.5°C; Other: ORP 54 mV; Turb. 1.54 ntu		(Water) Soil Organic Sludge Other:	250 CN	HNO3	2
1201181 (Sample B) / For Lab Use Only: AB70471	Date: 4/9/12 Time: 1314	Total + Dissolved Metals + Hardness (As, Ca, Cd, Cu, Pb, Mg, Zn)	(None) Cl2 UV Ozone Other:	D.O. 8.6 mg/L; Flow; pH 7.78; Cond. 734 µS; Temp. 17.4°C; Other: ORP 64 mV; Turb. 2.03 ntu		(Water) Soil Organic Sludge Other:	250 CN	HNO3	2
1201182 (Sample C) / For Lab Use Only: AB70472	Date: 4/9/12 Time: 1338	Total + Dissolved Metals + Hardness (As, Ca, Cd, Cu, Pb, Mg, Zn)	(None) Cl2 UV Ozone Other:	D.O. 7.4 mg/L; Flow; pH 7.60; Cond. 829 µS; Temp. 18.0°C; Other: ORP 32 mV; Turb. 4.83 ntu		(Water) Soil Organic Sludge Other:	250 CN	HNO3	2
1201183 (Sample D) / For Lab Use Only: AB70473	Date: 4/9/12 Time:	Total + Dissolved Metals + Hardness (As, Ca, Cd, Cu, Pb, Mg, Zn)	(None) Cl2 UV Ozone Other:	D.O.; Flow; pH; Cond.; Temp.; Other:		(Water) Soil Organic Sludge Other:	250 CN	HNO3	2

Relinquished By:	Received By: A. P. [illegible]	Date: 4-13-12	Time: 1041
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

DRAFT

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A	LDPR: FEPAS	Job Code: NJ12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): (Grab) Composite Modified Other:
Sample # 1201180, SW01 Collected at north side of 12th St Bridge

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, (Investigation), Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, (Surface Water), Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample B	LDPR: FEPAS	Job Code: NJ12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): (Grab) Composite Modified Other:
Sample # 1201181, SW02 Collected at South side of 12th St. Bridge

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, (Investigation), Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, (Surface Water), Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample C	LDPR: FEPAS	Job Code: NJ12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): (Grab) Composite Modified Other:
Sample # 1201182, SW03 Collected at South Side of Bailey Road Bridge

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, (Investigation), Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, (Surface Water), Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample D	LDPR: FEPAS	Job Code: NJ12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): (Grab) Composite Modified Other:
Sample # 1201183
Blind Duplicate

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, (Investigation), Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, (Surface Water), Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Remarks: Temp 8.1°C

DRAFT

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Description of Delivery
___ Tape sealed and initialed
___ Shipped
X Hand Delivered
Total No. Of Containers: 5
Carrier:
By:

Collector's Name: (Please Print) Sean Counihan

Affiliation: (circle one) KCRO NERO SERO SLRO SWRO WPP DGLS HWP ESP MoDOT MDC DHSS Other:

LAB USE ONLY!
Laboratory ID: 120413006
Location: B-13

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type (circle one)	Field Parameters (include units)		Matrix (circle one)	Container Type	Preservative Type	Number of Containers
1201184 (Sample A) / For Lab Use Only: AB70474	Date: 4/9/12 Time: 1654	Total Metals (Pb, As, Zn, Cu, Cd)	None, Cl_2, UV, Ozone, Other:	D.O.	~~8.3 mg/L~~	Water, Soil, Organic, Sludge, Other:	250 CN	HNO_3	1
				Flow					
				pH	~~7.88~~ SMC				
				Cond.	~~989 µs~~				
				Temp.	~~14.6°C~~				
				Other: ORP	~~0 mV~~				
				Turb.	~~1.21 ntu~~				
1201185 (Sample B) / For Lab Use Only: AB70475	Date: 4/9/12 Time: 1745	Total + Dissolved Metals + Hardness (As, Ca, Cd, Cu, Pb, Mg, Zn)	None, Cl_2, UV, Ozone, Other:	D.O.	8.3 mg/L	Water, Soil, Organic, Sludge, Other:	250 CN	HNO_3	2
				Flow					
				pH	7.88				
				Cond.	989 µs				
				Temp.	14.6°C				
				Other: ORP	0 mV				
				Turb.	1.21 ntu				
1201186 (Sample C) / For Lab Use Only: AB70476	Date: 4/10/12 Time: 1618	Total Metals (As, Cd, Cu, Pb, Zn)	None, Cl_2, UV, Ozone, Other:	D.O.		Water, Soil, Organic, Sludge, Other:	250 CN	HNO_3	1
				Flow					
				pH					
				Cond.					
				Temp.					
				Other:					
1201187 (Sample D) / For Lab Use Only: AB70477	Date: 4/11/12 Time: 1612	Total Metals (As, Cd, Cu, Pb, Zn)	None, Cl_2, UV, Ozone, Other:	D.O.		Water, Soil, Organic, Sludge, Other:	250 CN	HNO_3	1
				Flow					
				pH					
				Cond.					
				Temp.					
				Other:					

Relinquished By:	Received By:	Date:	Time:
[signature]	[signature]	4-13-12	1041
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

DRAFT

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A | LDPR: FEPAS | Job Code: NJ12SHAP | Sample Reference ID:

Facility ID: | Site/Study Name: Shapiro Brothers | County: Jefferson

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:
Sample # 1201184, Rinsate Blank

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample B | LDPR: FEPAS | Job Code: NJ12SHAP | Sample Reference ID:

Facility ID: | Site/Study Name: Shapiro Brothers | County: Jefferson

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:
Sample # 1201185, SW04 collected from Stream in Sunset Park

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample C | LDPR: FEPAS | Job Code: NJ12SHAP | Sample Reference ID:

Facility ID: | Site/Study Name: Shapiro Brothers | County: Jefferson

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:
Sample # 1201186, Rinsate Blank

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample D | LDPR: FEPAS | Job Code: NJ12SHAP | Sample Reference ID:

Facility ID: | Site/Study Name: Shapiro Brothers | County: Jefferson

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:
Sample # 1201187 Rinsate Blank

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Remarks: Temp 8.1°C

DRAFT

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Description of Delivery
Tape sealed and initialed
Shipped
✓ Hand Delivered
Total No. Of Containers: 1
Carrier:
By:

Collector's Name: (Please Print) Sean Counihan

Affiliation: (circle one) KCRO NERO SERO SLRO SWRO WPP DGLS HWP (ESP) MoDOT MDC DHSS Other:

LAB USE ONLY!
Laboratory ID: 120413006
Location: B-13

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type	Field Parameters (include units)	Matrix (circle one)	Container Type	Preservative Type	Number of Containers
201188 (Sample A) / For Lab Use Only: ABD478	Date: 4/12/12 Time: 1448	Total Metals (As, Cd, Cu, Pb, Zn)	(circle one) None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	(Water), Soil, Organic, Sludge, Other:	1L CN	HNO_3	1
(Sample B) / For Lab Use Only	Date: Time:		None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:			
(Sample C) / For Lab Use Only	Date: Time:		None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:			
(Sample D) / For Lab Use Only	Date: Time:		None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:			

Relinquished By:	Received By:	Date:	Time:
[signature]	[signature]	4-13-12	1041
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

DRAFT

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A	LDPR: FEPA5	Job Code: NJ 12SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): (Grab) Composite Modified Other:
Sample # 1201188 Rinsate Blank

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	Soil
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	(Surface Water)
~~Investigation~~	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample B	LDPR:	Job Code:	Sample Reference ID:
Facility ID:	Site/Study Name:	County:	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	Soil
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
Investigation	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample C	LDPR:	Job Code:	Sample Reference ID:
Facility ID:	Site/Study Name:	County:	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	Soil
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
Investigation	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample D	LDPR:	Job Code:	Sample Reference ID:
Facility ID:	Site/Study Name:	County:	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	Soil
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
Investigation	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Remarks: Temp 8.1 °C

DRAFT

B24

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Description of Delivery
Tape sealed and initialed
Shipped
X Hand Delivered
Total No. Of Containers: 4
Carrier:
By: Michael Stroh

Collector's Name: Michael Stroh
(Please Print)

Affiliation: *(circle one)* KCRO MDC NERO DHSS SERO Other: SLRO SWRO WPP DGLS HWP ESP MoDOT

LAB USE ONLY!
Laboratory ID: 120608008
Location: B24

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type (circle one)	Field Parameters (include units)	Matrix (circle one)	Container Type	Preservative Type	Number of Containers
H100001 (Sample A)	Date: 4/10/2012	Lead, Cadmium, Arsenic, PAHs	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	2plx bag	–	1
For Lab Use Only: AB76419	Time: 0840							
H1000002 (Sample B)	Date: 4/10/2012	Lead, Cadmium, Arsenic	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	2plx bag	–	1
For Lab Use Only: AB76420	Time: 0955							
H1000003 (Sample C)	Date: 4/9/2012	Lead, Cadmium, Arsenic, Toxaphene	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	2plx bag	–	1
For Lab Use Only: AB76421	Time: 1645							
H1000004 (Sample D)	Date: 4/9/2012	Lead, Cadmium, Arsenic	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	2plx bag	–	1
For Lab Use Only: AB76422	Time: 1025							

Relinquished By: Michael Stroh	Received By: Brenda Mee	Date: 6-7-12	Time: 15:35
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

DRAFT

MISSOURI DEPARTMENT OF NATURAL RESOURCES

FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID: 110
Facility ID:	Site/Study Name: Shapiro Brothers Scrapyard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab (Composite) Modified Other:
SU1

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample B	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID: 115
Facility ID:	Site/Study Name: Shapiro Brothers Scrapyard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab (Composite) Modified Other:
SU1, Replicate 3

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample C	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID: 103
Facility ID:	Site/Study Name: Shapiro Brothers Scrapyard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab (Composite) Modified Other:
SU1, Replicate 3

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample D	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID: 300
Facility ID:	Site/Study Name: Shapiro Brothers Scrapyard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab (Composite) Modified Other:
Background

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Remarks: Please conduct lab duplicate analyses on samples H1000002 and H1000003

DRAFT

B24

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Tape sealed and initialed
Shipped
X Hand Delivered

Description of Delivery
Total No. Of Containers: 4
Carrier:
By: Michael Stroh

Collector's Name: Michael Stroh
(Please Print)

Affiliation: *(circle one)* KCRO MDC NERO DHSS SERO Other: SLRO SWRO WPP DGLS HWP ESP MoDOT

LAB USE ONLY:
Laboratory ID: 120608008
Location: B24

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type (circle one)	Field Parameters (include units)	Matrix (circle one)	Container Type	Preservative Type	Number of Containers
H100005 (Sample A) / For Lab Use Only: AB76423	Date: 4/9/2012 Time: 1730	Lead, Cadmium, Arsenic	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	2pk bag	-	1
H1000006 (Sample B) / For Lab Use Only: AB76424	Date: 4/9/2012 Time: 1802	Lead, Cadmium, Arsenic	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	2pk bag	-	1
H1000007 (Sample C) / For Lab Use Only: AB76425	Date: 4/10/2012 Time: 1608	Lead, Cadmium, Arsenic	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	2pk bag	-	1
H1000008 (Sample D) / For Lab Use Only: AB76426	Date: 4/10/2012 Time: 1455	Lead, Cadmium, Arsenic	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	2pk bag	-	1

Relinquished By: Michael Stroh	Received By:	Date: 6-7-12	Time: 1535
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

DRAFT

MISSOURI DEPARTMENT OF NATURAL RESOURCES

FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID: 301
Facility ID:	Site/Study Name: Shapiro Brothers Scrapyard	County: Jefferson	
Sample Comment (where and how the sample was collected): Background	Grab (Composite) Modified Other:		
GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one) EPE (meters) PDOP

Sample Event Type: (circle one)
Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one)
Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample B	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID: 302
Facility ID:	Site/Study Name: Shapiro Brothers Scrapyard	County: Jefferson	
Sample Comment (where and how the sample was collected): Background	Grab (Composite) Modified Other:		
GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one) EPE (meters) PDOP

Sample Event Type: (circle one)
Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one)
Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample C	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID: 133
Facility ID:	Site/Study Name: Shapiro Brothers Scrapyard	County: Jefferson	
Sample Comment (where and how the sample was collected): SU2	Grab (Composite) Modified Other:		
GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one) EPE (meters) PDOP

Sample Event Type: (circle one)
Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one)
Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample D	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID: 146
Facility ID:	Site/Study Name: Shapiro Brothers Scrapyard	County: Jefferson	
Sample Comment (where and how the sample was collected): SU1, Replicate 1	Grab (Composite) Modified Other:		
GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one) EPE (meters) PDOP

Sample Event Type: (circle one)
Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one)
Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

DRAFT

B24

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Description of Delivery
___ Tape sealed and initialed
___ Shipped
X Hand Delivered
Total No. Of Containers: 4
Carrier:
By: Michael Stroh

Collector's Name: Michael Stroh
(Please Print)

Affiliation: *(circle one)* KCRO MDC NERO DHSS SERO Other: SLRO SWRO WPP DGLS HWP ESP MoDOT

LAB USE ONLY!
Laboratory ID: 120608008
Location: B-24

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type (circle one)	Field Parameters (include units)	Matrix (circle one)	Container Type	Preservative Type	Number of Containers
H100009 (Sample A) / For Lab Use Only: AB76427	Date: 4/10/2012 / Time: 1120	Lead, Cadmium, Arsenic	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	2 pla bag	-	1
H1000010 (Sample B) / For Lab Use Only: AB76428	Date: 4/12/2012 / Time: 1400	Lead, Cadmium, Arsenic	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	2 pla bag	-	1
H1000011 (Sample C) / For Lab Use Only: AB76429	Date: 4/10/2012 / Time: 1240	Lead, Cadmium, Arsenic	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	2 pla bag	-	1
H1000012 (Sample D) / For Lab Use Only: AB76430	Date: 4/11/2012 / Time: 1600	Lead, Cadmium, Arsenic	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	2 pla bag	-	1

Relinquished By:	Received By:	Date:	Time:
Michael Stroh		6-7-12	15:35
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

DRAFT

MISSOURI DEPARTMENT OF NATURAL RESOURCES

FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID: 105
Facility ID:	Site/Study Name: Shapiro Brothers Scrapyard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab (Composite) Modified Other:
SU2

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy	(circle one) EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample B	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID: 160
Facility ID:	Site/Study Name: Shapiro Brothers Scrapyard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab (Composite) Modified Other:
SU1, Replicate 2

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy	(circle one) EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample C	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID: 106
Facility ID:	Site/Study Name: Shapiro Brothers Scrapyard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab (Composite) Modified Other:
SU1

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy	(circle one) EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample D	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID: 217
Facility ID:	Site/Study Name: Shapiro Brothers Scrapyard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab (Composite) Modified Other:
SU1

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy	(circle one) EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Remarks:

DRAFT

B24

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Tape sealed and initialed
Shipped
X Hand Delivered

Description of Delivery
Total No. Of Containers: 2
Carrier:
By: Michael Stroh

Collector's Name: Michael Stroh
(Please Print)

Affiliation: *(circle one)* KCRO MDC NERO DHSS SERO Other: SLRO SWRO WPP DGLS HWP ESP MoDOT

LAB USE ONLY!
Laboratory ID: 120608008
Location: B-24

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type (circle one)	Field Parameters (include units)	Matrix (circle one)	Container Type	Preservative Type	Number of Containers
H100013 (Sample A) / For Lab Use Only: AB76431	Date: 4/11/2012 Time: 1043	Lead, Cadmium, Arsenic	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	2 pl. bag	–	1
H100014 (Sample B) / For Lab Use Only: AB76432	Date: 4/10/2012 Time: 0805	PCBs	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	2 pl. bag	–	1
(Sample C) / For Lab Use Only	Date: Time:		None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:			
(Sample D) / For Lab Use Only	Date: Time:		None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:			

Relinquished By: Michael Stroh	Received By:	Date: 6-7-12	Time: 15:35
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

DRAFT

MISSOURI DEPARTMENT OF NATURAL RESOURCES

FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID: 119
Facility ID:	Site/Study Name: Shapiro Brothers Scrapyard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab (Composite) Modified Other:
SU1

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy	(circle one) EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	Soil
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
Investigation	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample B	LDPR: FEPA5	Job Code: NJ12SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers Scrapyard	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab (Composite) Modified Other:
Beneath Transformer Pad

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy	(circle one) EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	Soil
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
Investigation	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample C	LDPR:	Job Code:	Sample Reference ID:
Facility ID:	Site/Study Name:	County:	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy	(circle one) EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	Soil
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
Investigation	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample D	LDPR:	Job Code:	Sample Reference ID:
Facility ID:	Site/Study Name:	County:	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy	(circle one) EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	Soil
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
Investigation	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Remarks:

DRAFT

120608008

A676419

Mace, Brenda

From: Stroh, Michael
Sent: Tuesday, June 12, 2012 8:53 AM
To: Mace, Brenda
Subject: RE: analyses requested
Attachments: Michael Stroh2.vcf

Brenda,
Please change the requested analysis for PAHs to BNAs on Sample Number H10001, Job code NJ12SHAP, LDPR FEPA5.
Thank you.

Michael Stroh
DEQ - HWP
Environmental Specialist III
DNR

5735229902 Work
Michael.Stroh@dnr.mo.gov
1730 East Elm Street
Jefferson City, MO 65101

From: Mace, Brenda
Sent: Monday, June 11, 2012 10:29 AM
To: Stroh, Michael
Subject: RE: analyses requested

DRAFT

An email stating the change will do.

From: Stroh, Michael
Sent: Monday, June 11, 2012 10:25 AM
To: Mace, Brenda
Subject: RE: analyses requested

Sorry, I was out on Friday. Do you still need this changed on the COC?

Michael Stroh
DEQ - HWP
Environmental Specialist III
DNR

5735229902 Work
Michael.Stroh@dnr.mo.gov
1730 East Elm Street
Jefferson City, MO 65101

From: Mace, Brenda
Sent: Thursday, June 07, 2012 3:52 PM
To: Stroh, Michael
Subject: analyses requested

Could you change the requested PAH to BNA?

MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES
STATE PUBLIC HEALTH LABORATORY
ENVIRONMENTAL ANALYSIS

101 N. CHESTNUT
P.O. BOX 570
JEFFERSON CITY, MO 65102

DATE COLLECTED 4/10/12

Environmental lead analysis is used to follow up confirmed elevated lead levels of children. Samples will only be analyzed if submitted by a State or local Public Health official. **A SEPARATE FORM SHOULD BE COMPLETED FOR EACH SAMPLE.**

(THE FOLLOWING INFORMATION MUST BE SUPPLIED)

PATIENT NAME (LAST, FIRST, MIDDLE)

BIRTH DATE

PARENT'S NAME (LAST, FIRST, MIDDLE)

SAMPLE LOCATION ADDRESS (STREET, CITY, STATE, ZIP CODE)
1107 Vine St.

PROPERTY OWNER NAME (LAST, FIRST, MIDDLE)

ADDRESS (STREET, CITY, STATE, ZIP CODE)

SEND REPORT TO (Please print clearly - This is your mailing address)

NAME OF LICENSED RISK ASSESSOR
Jonathan Gorovitz

ADDRESS (STREET, CITY, STATE, ZIP CODE)
930 Wildwood Dr. P.O. Box 570

SAMPLE TYPE

☐ SOIL ☐ PAINT ☑ DUST WIPE ☐ OTHER _____

SAMPLE DESCRIPTION (LOCATION, ETC.)
Location I.D. 114
Sample collected from Vinyl Siding on front of House (east)
under right shutter 1 ft^2 collected at 1015 hrs

LABORATORY REPORT

ANALYZED

REC	BY	REPT	BY	LOG NO

DRAFT

MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES
STATE PUBLIC HEALTH LABORATORY
ENVIRONMENTAL ANALYSIS

101 N. CHESTNUT
P.O. BOX 570
JEFFERSON CITY, MO 65102

DATE COLLECTED 4/10/12

Environmental lead analysis is used to follow up confirmed elevated lead levels of children. Samples will only be analyzed if submitted by a State or local Public Health official. **A SEPARATE FORM SHOULD BE COMPLETED FOR EACH SAMPLE.**

(THE FOLLOWING INFORMATION MUST BE SUPPLIED)

PATIENT NAME (LAST, FIRST, MIDDLE)

BIRTH DATE

PARENT'S NAME (LAST, FIRST, MIDDLE)

SAMPLE LOCATION ADDRESS (STREET, CITY, STATE, ZIP CODE)
1009 Vine St.

PROPERTY OWNER NAME (LAST, FIRST, MIDDLE)

ADDRESS (STREET, CITY, STATE, ZIP CODE)

SEND REPORT TO (Please print clearly - This is your mailing address)

NAME OF LICENSED RISK ASSESSOR
Jonathan Geraulte

ADDRESS (STREET, CITY, STATE, ZIP CODE)
930 Wildwood Drive PO Box 570

SAMPLE TYPE

☐ SOIL ☐ PAINT ☒ DUST WIPE ☐ OTHER _____

SAMPLE DESCRIPTION (LOCATION, ETC.)
Location ID 117
Sample collected from glass table top on front porch (east)
Collected at 1025 hrs 1ft2

LABORATORY REPORT

ANALYZED

REC	BY	REPT	BY	LOG NO

MO 580-1325 (5-07)

LAB-18

DRAFT

MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES
STATE PUBLIC HEALTH LABORATORY
ENVIRONMENTAL ANALYSIS

101 N. CHESTNUT
P.O. BOX 570
JEFFERSON CITY, MO 65102

DATE COLLECTED 4/10/12

Environmental lead analysis is used to follow up confirmed elevated lead levels of children. Samples will only be analyzed if submitted by a State or local Public Health official. **A SEPARATE FORM SHOULD BE COMPLETED FOR EACH SAMPLE.**

(THE FOLLOWING INFORMATION MUST BE SUPPLIED)

PATIENT NAME (LAST, FIRST, MIDDLE)

BIRTH DATE

PARENT'S NAME (LAST, FIRST, MIDDLE)

SAMPLE LOCATION ADDRESS (STREET, CITY, STATE, ZIP CODE)
1009 Vine St.

PROPERTY OWNER NAME (LAST, FIRST, MIDDLE)

ADDRESS (STREET, CITY, STATE, ZIP CODE)

SEND REPORT TO (Please print clearly - This is your mailing address)

NAME OF LICENSED RISK ASSESSOR
Jonathon Garoutte

ADDRESS (STREET, CITY, STATE, ZIP CODE)
930 Wildwood Dr. P.O. Box 570

SAMPLE TYPE

☐ SOIL ☐ PAINT ☒ DUST WIPE ☐ OTHER

SAMPLE DESCRIPTION (LOCATION, ETC.)
Location ID 117 Collected at 1030 Hrs.
Sample Collected from Vinyl Siding on front of house (east) to the left of porch under eave/soffet next to gutter downspout. 1ft2

LABORATORY REPORT

ANALYZED

REC	BY	REPT	BY	LOG NO

MO 580-1325 (5-07)

LAB-16

DRAFT

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STATE PUBLIC HEALTH LABORATORY
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P.O. BOX 570
JEFFERSON CITY, MO 65102

DATE COLLECTED 4/10/12

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(THE FOLLOWING INFORMATION MUST BE SUPPLIED)

PATIENT NAME (LAST, FIRST, MIDDLE)

BIRTH DATE

PARENT'S NAME (LAST, FIRST, MIDDLE)

SAMPLE LOCATION ADDRESS (STREET, CITY, STATE, ZIP CODE)
119 N. 10th

PROPERTY OWNER NAME (LAST, FIRST, MIDDLE)

ADDRESS (STREET, CITY, STATE, ZIP CODE)

SEND REPORT TO (Please print clearly - This is your mailing address)

NAME OF LICENSED RISK ASSESSOR
Jonathan Garoutte

ADDRESS (STREET, CITY, STATE, ZIP CODE)
930 Wildwood Drive P.O. Box 570

SAMPLE TYPE

☐ SOIL ☐ PAINT ☒ DUST WIPE ☐ OTHER

SAMPLE DESCRIPTION (LOCATION, ETC.)
LocationID 105 Green Vinyl Chair on front Porch (South)
Collected at 1115
1ft²

LABORATORY REPORT

ANALYZED

REC	BY	REPT	BY	LOG NO

DRAFT

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P.O. BOX 570
JEFFERSON CITY, MO 65102

DATE COLLECTED 4/10/12

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(THE FOLLOWING INFORMATION MUST BE SUPPLIED)

PATIENT NAME (LAST, FIRST, MIDDLE)

BIRTH DATE

PARENT'S NAME (LAST, FIRST, MIDDLE)

SAMPLE LOCATION ADDRESS (STREET, CITY, STATE, ZIP CODE)
119 N. 10th

PROPERTY OWNER NAME (LAST, FIRST, MIDDLE)

ADDRESS (STREET, CITY, STATE, ZIP CODE)

SEND REPORT TO (Please print clearly - This is your mailing address)

NAME OF LICENSED RISK ASSESSOR
Jonathan Garoutte

ADDRESS (STREET, CITY, STATE, ZIP CODE)
930 Wildwood Drive P.O. Box 570

SAMPLE TYPE

☐ SOIL ☐ PAINT ☒ DUST WIPE ☐ OTHER

SAMPLE DESCRIPTION (LOCATION, ETC.)
Location I D 105 vinyl siding on front of house (South) ~~left~~ Right side under far right window
Collected at 1120 1 ft²

LABORATORY REPORT

ANALYZED

REC	BY	REPT	BY	LOG NO

DRAFT

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JEFFERSON CITY, MO 65102

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(THE FOLLOWING INFORMATION MUST BE SUPPLIED)

PATIENT NAME (LAST, FIRST, MIDDLE)

BIRTH DATE

PARENT'S NAME (LAST, FIRST, MIDDLE)

SAMPLE LOCATION ADDRESS (STREET, CITY, STATE, ZIP CODE)
1019 Vine St

PROPERTY OWNER NAME (LAST, FIRST, MIDDLE)

ADDRESS (STREET, CITY, STATE, ZIP CODE)

SEND REPORT TO (Please print clearly - This is your mailing address)

NAME OF LICENSED RISK ASSESSOR
Jonatha Garoutte

ADDRESS (STREET, CITY, STATE, ZIP CODE)
930 Wildwood Drive P.O. Box 570

SAMPLE TYPE

☐ SOIL ☐ PAINT ☒ DUST WIPE ☐ OTHER _____

SAMPLE DESCRIPTION (LOCATION, ETC.)
Location ID 110
Sample collected from front Porch Window Glass upper Pane
Collected at 1500 hrs 1 ft2

LABORATORY REPORT

ANALYZED

REC	BY	REPT	BY	LOG NO

MO 580-1325 (5-07)

LAB-18

DRAFT

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(THE FOLLOWING INFORMATION MUST BE SUPPLIED)

PATIENT NAME (LAST, FIRST, MIDDLE)

BIRTH DATE

PARENT'S NAME (LAST, FIRST, MIDDLE)

SAMPLE LOCATION ADDRESS (STREET, CITY, STATE, ZIP CODE)

PROPERTY OWNER NAME (LAST, FIRST, MIDDLE)

ADDRESS (STREET, CITY, STATE, ZIP CODE)

SEND REPORT TO (Please print clearly - This is your mailing address)

NAME OF LICENSED RISK ASSESSOR
Jonathan Garoutte

ADDRESS (STREET, CITY, STATE, ZIP CODE)
930 Wildwood Drive P.O. Box 570

SAMPLE TYPE

☐ SOIL ☐ PAINT ☒ DUST WIPE ☐ OTHER _____

SAMPLE DESCRIPTION (LOCATION, ETC.)
Field Blank @ 1107

LABORATORY REPORT

ANALYZED

REC	BY	REPT	BY	LOG NO

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101 N. CHESTNUT
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JEFFERSON CITY, MO 65102

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(THE FOLLOWING INFORMATION MUST BE SUPPLIED)

PATIENT NAME (LAST, FIRST, MIDDLE)

BIRTH DATE

PARENT'S NAME (LAST, FIRST, MIDDLE)

SAMPLE LOCATION ADDRESS (STREET, CITY, STATE, ZIP CODE)
1209 Kenner St.

PROPERTY OWNER NAME (LAST, FIRST, MIDDLE)

ADDRESS (STREET, CITY, STATE, ZIP CODE)

SEND REPORT TO (Please print clearly - This is your mailing address)

NAME OF LICENSED RISK ASSESSOR
Jonathan Garoutte

ADDRESS (STREET, CITY, STATE, ZIP CODE)
930 Wildwood Drive P.O. Box 570

SAMPLE TYPE

☐ SOIL ☐ PAINT ☒ DUST WIPE ☐ OTHER _____

SAMPLE DESCRIPTION (LOCATION, ETC.)
Loc. ID 216 Sample collected on Back of House (West) Vinyl Siding Between Back Windows
Collected at 1410 | ft²

LABORATORY REPORT

ANALYZED

REC	BY	REPT	BY	LOG NO

MO 580-1325 (5-07)

LAB-18

DRAFT

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STATE PUBLIC HEALTH LABORATORY
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101 N. CHESTNUT
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(THE FOLLOWING INFORMATION MUST BE SUPPLIED)

PATIENT NAME (LAST, FIRST, MIDDLE)

BIRTH DATE

PARENT'S NAME (LAST, FIRST, MIDDLE)

SAMPLE LOCATION ADDRESS (STREET, CITY, STATE, ZIP CODE)

PROPERTY OWNER NAME (LAST, FIRST, MIDDLE)

ADDRESS (STREET, CITY, STATE, ZIP CODE)

SEND REPORT TO (Please print clearly - This is your mailing address)

NAME OF LICENSED RISK ASSESSOR
Jonathan Garoutte

ADDRESS (STREET, CITY, STATE, ZIP CODE)
930 Wildwood Drive P.O. Box 570

SAMPLE TYPE

☐ SOIL ☐ PAINT ☒ DUST WIPE ☐ OTHER _____

SAMPLE DESCRIPTION (LOCATION, ETC.)
Field Blank 002

LABORATORY REPORT

ANALYZED

REC	BY	REPT	BY	LOG NO

DRAFT

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STATE PUBLIC HEALTH LABORATORY
ENVIRONMENTAL ANALYSIS

101 N. CHESTNUT
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JEFFERSON CITY, MO 65102

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(THE FOLLOWING INFORMATION MUST BE SUPPLIED)

PATIENT NAME (LAST, FIRST, MIDDLE)

BIRTH DATE

PARENT'S NAME (LAST, FIRST, MIDDLE)

SAMPLE LOCATION ADDRESS (STREET, CITY, STATE, ZIP CODE)

623 Loth St

PROPERTY OWNER NAME (LAST, FIRST, MIDDLE)

ADDRESS (STREET, CITY, STATE, ZIP CODE)

SEND REPORT TO (Please print clearly - This is your mailing address)

NAME OF LICENSED RISK ASSESSOR

Jonathan Gorette

ADDRESS (STREET, CITY, STATE, ZIP CODE)

930 Wildwood Drive P.O. Box 570

SAMPLE TYPE

☐ SOIL ☐ PAINT ☒ DUST WIPE ☐ OTHER _____

SAMPLE DESCRIPTION (LOCATION, ETC.)

Location ID 224 Sample collected from Right Side of House (east)
Vinyl Siding
Sample collected at 1000 hrs. 1 ft^2

LABORATORY REPORT

ANALYZED

REC	BY	REPT	BY	LOG NO

DRAFT

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ENVIRONMENTAL ANALYSIS

101 N. CHESTNUT
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PATIENT NAME (LAST, FIRST, MIDDLE)

BIRTH DATE

PARENT'S NAME (LAST, FIRST, MIDDLE)

SAMPLE LOCATION ADDRESS (STREET, CITY, STATE, ZIP CODE)
623 6th st

PROPERTY OWNER NAME (LAST, FIRST, MIDDLE)

ADDRESS (STREET, CITY, STATE, ZIP CODE)

SEND REPORT TO (Please print clearly - This is your mailing address)

NAME OF LICENSED RISK ASSESSOR
Jonathan Garoutte

ADDRESS (STREET, CITY, STATE, ZIP CODE)
930 Wildwood Drive P.O. Box 570

SAMPLE TYPE

☐ SOIL ☐ PAINT ☒ DUST WIPE ☐ OTHER

SAMPLE DESCRIPTION (LOCATION, ETC.)
Location ID 1224
Sample collected from White Vinyl Chair on Back porch (North)
Sample collected at 1010 hrs. 1A2

LABORATORY REPORT

ANALYZED

REC	BY	REPT	BY	LOG NO

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101 N. CHESTNUT
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(THE FOLLOWING INFORMATION MUST BE SUPPLIED)

PATIENT NAME (LAST, FIRST, MIDDLE)

BIRTH DATE

PARENT'S NAME (LAST, FIRST, MIDDLE)

SAMPLE LOCATION ADDRESS (STREET, CITY, STATE, ZIP CODE)
721 Ridge Road

PROPERTY OWNER NAME (LAST, FIRST, MIDDLE)

ADDRESS (STREET, CITY, STATE, ZIP CODE)

SEND REPORT TO (Please print clearly - This is your mailing address)

NAME OF LICENSED RISK ASSESSOR
Jonathan Garoutte

ADDRESS (STREET, CITY, STATE, ZIP CODE)
930 Wildwood Drive P.O. Box 570

SAMPLE TYPE

☐ SOIL ☐ PAINT ☒ DUST WIPE ☐ OTHER

SAMPLE DESCRIPTION (LOCATION, ETC.)
Location ID. 218
Sample Collected from Vinyl Siding on Back of House (East)
under Baywindow on Patio 1 ft² Sample Collected at 1520

LABORATORY REPORT

ANALYZED

REC	BY	REPT	BY	LOG NO

MO 580-1325 (5-07)

LAB-18

DRAFT

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101 N. CHESTNUT
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(THE FOLLOWING INFORMATION MUST BE SUPPLIED)

PATIENT NAME (LAST, FIRST, MIDDLE)

BIRTH DATE

PARENT'S NAME (LAST, FIRST, MIDDLE)

SAMPLE LOCATION ADDRESS (STREET, CITY, STATE, ZIP CODE)
714 Delmar

PROPERTY OWNER NAME (LAST, FIRST, MIDDLE)

ADDRESS (STREET, CITY, STATE, ZIP CODE)

SEND REPORT TO (Please print clearly - This is your mailing address)

NAME OF LICENSED RISK ASSESSOR
Jonathan Garoutte

ADDRESS (STREET, CITY, STATE, ZIP CODE)
930 Wildwood Drive P.O. Box 520

SAMPLE TYPE

☐ SOIL ☐ PAINT ☒ DUST WIPE ☐ OTHER _____

SAMPLE DESCRIPTION (LOCATION, ETC.)
Loc. 179 collected from for left front Double Window
Right window Collected at 1445 hrs.
32" x 5" sill = 1.2 sq. ft

LABORATORY REPORT

ANALYZED

REC	BY	REPT	BY	LOG NO

MO 580-1325 (5-07)

LAB-18

DRAFT

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101 N. CHESTNUT
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DATE COLLECTED 4/12/12

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(THE FOLLOWING INFORMATION MUST BE SUPPLIED)

PATIENT NAME (LAST, FIRST, MIDDLE)

BIRTH DATE

PARENT'S NAME (LAST, FIRST, MIDDLE)

SAMPLE LOCATION ADDRESS (STREET, CITY, STATE, ZIP CODE)
714 Delmar

PROPERTY OWNER NAME (LAST, FIRST, MIDDLE)

ADDRESS (STREET, CITY, STATE, ZIP CODE)

SEND REPORT TO (Please print clearly - This is your mailing address)

NAME OF LICENSED RISK ASSESSOR
Jonathan Garoutte

ADDRESS (STREET, CITY, STATE, ZIP CODE)
930 Wildwood Drive P.O. Box 570

SAMPLE TYPE

☐ SOIL ☐ PAINT ☒ DUST WIPE ☐ OTHER _____

SAMPLE DESCRIPTION (LOCATION, ETC.)
Location ID 179
Sample collected from glass table (top) on Comfort (West)
Sample collected @ 1430 1ft²

LABORATORY REPORT

ANALYZED

REC	BY	REPT	BY	LOG NO

DRAFT

MO 580-1325 (5-07)

LAB-18

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PATIENT NAME (LAST, FIRST, MIDDLE)

BIRTH DATE

PARENT'S NAME (LAST, FIRST, MIDDLE)

SAMPLE LOCATION ADDRESS (STREET, CITY, STATE, ZIP CODE)

PROPERTY OWNER NAME (LAST, FIRST, MIDDLE)

ADDRESS (STREET, CITY, STATE, ZIP CODE)

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NAME OF LICENSED RISK ASSESSOR
Jonathan Garoutte

ADDRESS (STREET, CITY, STATE, ZIP CODE)
930 Wildwood Drive P.O. Box 570

SAMPLE TYPE

☐ SOIL ☐ PAINT ☒ DUST WIPE ☐ OTHER

SAMPLE DESCRIPTION (LOCATION, ETC.)
Field Blank 003
Sample collected at 1012 hrs.

LABORATORY REPORT

ANALYZED

REC	BY	REPT	BY	LOG NO

DRAFT

APPENDIX D

Field Notes

Shapiro Brothers Salvage Yard Site

Festus, Jefferson County, MO

DRAFT

Shapiro Brothers Scrapyard
FEPAS NJ12SHAP
Sampling team Arrive onsite at
1000 Weather Sunny around 50 4/9/12
Background location 1
West City Park, Festus.
1/4 Acre plot 30 Increments 5 rows of 6
Loc. ID 300 Collected @ 1025
Water Quality instruments
- ex tech pH - conductivity EC0466
pH - 7 Reads 6.90
pH - 4 Reads 4.02
Cond - 1413 reads 1469

- Hanna ORP 003

ORP @ 200 reads 215

- Surface Water & Sediment Samples

- SW01
- SD01 Collected at 12th st Bridge
north side

DRAFT

Sample collected @ 1745
Sample # 1201185

4/10/12 Shapiro Brothers

Collected Dust wipe Sample at

Loc. ID 114 collected at 1015
~~collected fr~~
Dust wipe of Vinal siding front of House (east) ~~154~~ 1 ft² under right Shutter

Dust wipe samples collected (2)
~~Loc ID 117~~

one collected from glass table (top) on front porch (east) @ 1025

second collected from Vinal siding front of House (east) Left side of porch under eave / soffett next to gutter downspout @ 1030

Field Blank Wipe Sample
001 collected at 1107

location ID 105
Dust wipe Sample collected
① from gray vinal dick chair on front porch (south) collected at 1115

② Dust wipe Sample collected ~~at~~ (sync) from Vinal siding front of House (south) porch under far right window. Collected at 1120

Rinsate Blank Loc # 127
FD# 1201186
Time: 1618

Dust Wipe Sample collected at

loc. ID 110
[redacted] 11th St Vine
[redacted] collected at 1500 front porch (east) upper glass window pane of Left Porch window
New porch light

DRAFT

Temp = 16.5°C
Cond 1190µs
ORP 54mV
pH = 7.51
DO = 8.0mg/L
Turb = 1.54ntu
Sample Collected at 1238
Sample # 1201180
Blind Duplicate collected
Sample # 1201183
SW + SD Ø2
Collected at South side of 6th St. Bridge

Temp = 17.4°C
Cond = 734µs
ORP = 64mV
pH = 7.78
DO = 8.6mg/L
Turb = 2.03ntu
Sample collected at 1314
Sample # 1201181

SW + SD Ø3
Collected from Bailey Road intersection/Bridge South side

Temp = 18.0°C
Cond = 829µs
pH = 7.66
ORP 30mV
DO = 7.4mg/L
Turb = 4.83ntu
Sample collected ~~from Bailey Bridge~~ at 1338
Sample # 1201182

Day 1 Rinsate Blank collected
Rinsate collected from cutting tool of [redacted]emental sampler
[redacted]ample collected at 1454
Sample # 1201184

Background Stream SW + SD at Sunset Park
SW + SD Ø4

Temp = 14.6°C ORP = 0mV
Cond = 989µs DO = 8.5mg/L
pH = [illegible]

DRAFT

Shapiro Brothers
4/11/12

Dust wipe Sample collected
at Loc. ID 216
Collected from Back of House (west)
Vinal siding Between windows

Rinsate Blank collected
after SW2 of Loc. ID 217
Sample # 1201187
Collected at 1612

Field Blank Dust Wipe Sample
Collected @ 1615

4/12/12

Dust wipe Sample collected at
location ID 224
① Sample collected from Right side
of House (east) Vinal Siding
Collected at 1000
② sample collected from white vinal chair
on Back porch (North) Collected at 1010

Dust Wipe Field Blank
Collected at 1012

Dust wipe Sample collected
① from location ID 179
Sample collected from glass table top
on Carport (west) collected at 1430

② Sample collected from for left exterior (west)
Window sill - is double window will wipe
from Right Window
32" x 5" sill 1.2 sq ft
Sample collected at 1445

Rinsate Blank collected
after Loc. 179
Sample # 1201188
Collected at 1448

Dust wipe Sample collected from
Location ID 218
Back of House (east) Vinal siding under
Bay Window on Patio.
collected at 1520

DRAFT

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result
5-10-12	5434	1	201	Calib.	—	
		2		5861	54	
		3		BLANK	-3	
		4		4315	256	
		5		408	498	
		6		2710	5140	
		7		2710	1263	
		8		Loc 120 SU1/Rep1	895	
		9		" " " "	861	
		10		" " " "	916	
		11		" " " /Rep2	962	
		12		" " "	935	
		13		" " "	940	
		14		" " /Rep3	782	
		15		" " "	824	
		16		" " "	812	
		17		" SU2/Rep1	239	
		18		" "	208	
		19		" "	231	
		20		" " /Rep2	237	
		21		" " "	242	
		22		" " "	253	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result
5-10-12	5434	23		Loc 120 SU2/Rep3	251	
		24		" "	268	
		25		" "	256	
		26		Loc 175 SU1	140	
		27		"	153	
		28		"	144	
		29		" SU2	136	
		30		" "	130	
		31		" "	136	
		32		BLANK	-2	
		33		5861	61	
		34		4315	287	
		35		408	505	
		36		2710	1227	
		37		2710	5126	
				END		

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5-11-12	5434	1	196	STANDARDIZE	—	
		2		5861	52	
		3		4315	253	
		4		2711	1196	
		5		4315	279	
		6		BLANK	2	
		7		2710	5764	
		8		LOC 159 SU1	484	
		9		" "	490	
		10		" "	487	
		11		SU2	178	
		12		" "	179	
		13		" "	185	
		14		LOC 215 SU1	348	
		15		" "	362	
		16		" "	339	
		17		" " SU2	217	
		18		" "	221	
		19		" "	211	
		20		LOC 221	248	
		21		"	252	
		22		"	259	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/11/12	5434	23		LOC 221 SU2 REP1	123	
		24		" "	121	
		25		" "	126	
		26		LOC 221 SU2 REP2	130	
		27		" "	124	
		28		" "	114	
		29		LOC 221 SU2 REP3	174	
		30		" "	187	
		31		" "	161	
		32		LOC 221 SU2 REP3 (PC)	176	
		33		(PC) - PRECISION CHECK	173	
		34		PC	182	
		35		PC	170	
		36		PC	175	
		37		PC	167	
		38		PC	171	
		39		LOC 180 SU2 e1200	102	
		40		" "	100	
		41		" "	109	
		42		LOC 179 SU2	165	
		43		" "	168	
		44		" "	170	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/11/12	5434	45		Loc 218 SU2	181	
		46		" "	171	
		47		" "	173	
		48		Loc 222 SU2	89	
		49		" "	93	
		50		" "	98	
		51		BLANK	-2	
		52		2710	5700	
		53		4315	279	
		54		2711	1181	
		55		5861	52	
		56		Loc 157 SU2	99	
		57		" "	99	
		58		" "	93	
		59		Loc 158 SU2	163	
		60		" "	167	
		61		" "	146	
		62		Loc 161 SU2	78	
		63		" "	86	
		64		" "	94	
		65		Loc 164 SU2	115	
		66		"	119	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/11/12	5434	67		Loc 164 SU2	121	
		68		Loc 224 SU2	128	
		69		" "	151	
		70		" "	141	
		71		City Street Sweepings	182	
		72		" "	182	
		73		" "	190	
		74		2711	1175	
		75		2710	5830	
		76		4315	271	
		77		5861	42	
		78		408	517	
		79		BLANK	-1	
				END		

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/21/12	5434	1	199	STANDARDIZE		
		2		BLANK	-1	
		3		5861	50	
		4		4315	261	
		5		2711	1176	
		6		2710	5790	
		7		408	484	
		8		LOC 217 SU1	385	
		9		" "	390	
		10		" "	406	
	MEAN AND 95% UCL @ ≈400 PPM					*
	RETESTING PER SOP					
		11		LOC 217 SU1 RUN 2	392	
		12		" "	390	
		13		LOC 217 SU1 RUN 2	367	
	MEAN AND 95% UCL @ ≈400 PPM					*
	RETEST PER SOP					
		14		LOC 217 SU1 RUN 3	379	
		15		" "	367	
		16			386	
		17		LOC 217 SU2	264	
		18		" "	271	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/21/12	5434	19		LOC 217 SU2	257	
		20		LOC 123 SU2	221	
		21		" "	230	
		22		" "	225	
		23		VINE TELEPHONE POLE	1134	
		24		" "	1165	
		25		" "	1232	
	MEAN AND 95% UCL ≈1200 PPM					*
	RETEST PER SOP					
		26		VINE TELEPHONE POLE TEST 2	~~1232~~ PM 1127	
		27		" "	~~1127~~ PM 1164	
		28		" "	~~1164~~ PM 1203	
		29		" "	1180	
		30		" "	1187	
		31		" "	1188	
		32		" "	1221	
		33		LOC 133 SU2	214	
		34		" "	206	
		35		" "	216	
		36		LOC 133 SU1	218	
		37		" "	185	
		38		" "	202	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/21/12	5434	39		LOC 134 SU2	138	
	5434	40		" "	142	
		41		" "	143	
		42		LOC 134 SU1	161	
		43		" "	140	
		44		" "	145	
		45		4315	263	
		46		2710	5934	
		47	197	STANDARDIZE		
		48		2711	1225	
		49		5861	47	
		50		LOC 111 SU1	1677	
		51		" "	1708	
		52		" "	1678	
		53		PRECISION CHECK (SOIL)	1716	
		54		PC	1649	
		55		PC	1699	
		56		PC	1708	
		57		PC	1704	
		58		PC	1744	
		59		PC	1719	
		60		LOC 117 SU2	302	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/21/12	5434	61		LOC 117 SU2	303	
		62		" "	305	
		63		LOC 110 SU1	1571	
		64		" "	1600	
		65		" "	1557	
		66		LOC 110 SU2	476	
		67		" "	479	
		68		" "	463	
		69		LOC 154 Y1 Rep1	190	
		70		" "	154	
		71		" "	154	
		72		LOC 154 Y1 Rep2	176	
		73		" "	180	
		74		" "	182	
		75		LOC 154 Y1 Rep3	182	
		76		" "	187	
		77		" "	173	
		78		LOC 154 Y2 Rep1	292	
		79		" "	282	
		80		" "	272	
		81		LOC 154 Y2 Rep2	232	
		82		" "	234	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/21/12	5434	83		LOC 154 Y2 Rep2	237	
		84		LOC 154 Y2 Rep3	417	
		85		" "	408	
		86		" "	391	
		87		LOC 154 Y3 Rep1	344	
		88		" "	330	
		89		" "	343	
		90		LOC 154 Y3 Rep2	361	
		91		" "	362	
		92		" "	356	
		93		LOC 154 Y3 Rep3	312	
		94		" "	314	
		95		" "	321	
		96		LOC 154 SU1 Rep1	201	
		97		" "	225	
		98		" "	197	
		99		LOC 154 SU1 Rep2	225	
		100		" "	233	
		101		" "	241	
		102		LOC 154 SU1 Rep3	229	
		103		" "	211	
		104		" "	208	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/21/12	5434	105		LOC 154 SU2 Rep1	255	
		106		" "	257	
		107		" "	243	
		108		LOC 154 SU2 Rep2	281	
		109		" "	295	
		110		" "	288	
		111		LOC 154 SU2 Rep3	281	
		112		" "	295	
		113		" "	282	
		114		2710	5813	
		115		2711	1198	
		116		4315	272	
		117		408	508	
		118		5861	54	
		119		BLANK	1	
				END		

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result Sr	
5/22/12	5434	1	198	Standardization	/	/	
		2		SRM 4315	254	ND	ok
		3		SRM 5861	63	551	Pb too high
		4		SRM 5861	52	651	ok.
		5		SRM 2586	442		ok
		6		SRM NIST 2711	1177		ok
		7		SRM NIST 2710*	5888		too high
		8		"	5808		too high
		9		" (different cup from 1st 2 runs)	5856		too high
		10	199	Standardization			
		11		SRM 5861	51		ok
		12		SRM 4315	281		too high
		13		"	282		too high
		14		" (different from 1st 2 runs.)	253		ok.
		15		SRM 2586	431		ok
		16		SRM NIST 2711	1195		ok.
		17		SRM NIST 2710*	5772		too high
		18		"	5855		too high
		19		" (different cup from 1st 2 runs)	5962		too high
		note*		SRM NIST 2710 reading too high.			
		20		Blank	ND		
		21		LOC ID. 105 SU1	1145		

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result	
5/22/12	5434	22		LOC ID 105 SU1	1102		
		23		↓	1058		
		24		LOC ID 105 SU2	405		
		25		↓	408		
		26		↓	399		
		27		QC1	407		
		28			410		entered on spreadsheet at end of day.
		29			395		
		30			389		
		31			430		
		32			418		
		33		↓ ↓	380		
		34		LOC. ID 105 SU3	1512		
		35		↓	1595		
		36		↓	1498		
		37		LOC ID. 105 SU2 cont.	419		
		38		↓	385		
		39		↓	408		
		40			416		
		41			396		
		42			396		
		43			402		

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ___
5/22/12	5434	44		LOC ID 148 SU1	184	
		45		↓	193	
		46		↓	193	
		47		LOC ID. 148 SU2	130	
		48		↓	139	
		49		↓	130	
		50		Loc ID. 129 SU1	177	
		51		↓	172	
		52		↓	180	
		53		Loc ID 129 SU2	161	
		54		↓	169	
		55		↓	165	
		56		Loc ID 176 SU2	257	
		57		↓	244	
		58		↓	251	
		59		Loc ID 106 SU2	210	
		60		↓	212	
		61		↓	195	
		62		Loc ID 155 SU1	269	
		63		↓	250	
		64		↓	263	
		65		loc ID 155 SU2	cancelled for wrong entry.	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ___
5/22/12	5434	66		Loc ID 155 SU2	189	
		67		↓	212	
		68		↓	208	
		69		Loc ID 135 SU1	282	
		70		↓	288	
		71		↓	307	
		72		Loc ID 135 SU2	135	
		73		↓	132	
		74		↓	128	
		75		~~standardize~~	126	
		76	197	standardize		
		77		SRM 5861	53	
		78		SRM 4315	236	
		79		SRM 2586	421	
		80		SRM NIST 2711	1227	too high.
		81		"	1197	ok.
		82		SRM NIST 2710*	5900	too high.
		83		"	5884	too high.
		84		BLANK	ND	
		85		Loc ID 116 Y1 Rep1	318	
		86		↓	338	
		87		↓	329	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ____
5/22/12	5434	88		Loc ID 116 Y1 Rep 2	293	
		89		↓	297	
		90		↓	265	
		91		Loc ID 116 Y1 Rep 3	328	
		92		↓	335	
		93		↓	324	
		94		Loc ID 116 Y2 Rep 1	227	
		95		↓	243	
		96		↓	242	
fix*		97		Loc ID 116 Y2 ~~Rep 2~~ Rep 1	229	
		98		Loc ID 116 Y2 Rep 2	173	
		99		↓	184	
		100		↓	175	
		101		Loc ID 116 Y2 Rep 3	210	
		102		↓	218	
		103		↓	202	
		104		Loc ID 146 SU1 Rep 1	390	
		105		↓	397	
		106		↓	398	
		107		↓	391	
		108		↓	412	
		109		↓	382	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ____
5/22/12	5434	110		Loc ID 146 SU1 Rep 1	399	
		111		↓	412	entered on spreadsheet at end of day
		112		↓	392	
		113		↓	407	
		114		QC1	395	
		115		↓	399	
		116		↓	427	
		117		Loc ID 146 SU1 Rep 2	380	
		118		↓	399	
		119		↓	380	
		120		Loc ID 146 SU1 Rep 3	386	
		121		↓	387	
		122		↓	390	
		123		Loc ID 146 Y1 Rep 1	369	
		124		↓	347	
		125		↓	352	
		126		Loc ID 146 Y1 Rep 2	300	
		127		↓	286	
		128		↓	296	
		129		Loc ID 146 Y1 Rep 3	305	
		130		↓	289	
		131		↓	289	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ___
5/22/12	5434	132		LOC ID 146 Y2 Rep1	442	
		133		↓	424	
		134		↓	442	
		135		LOC ID 146 Y2 Rep2	401	
		136		↓	409	
		137		↓	400	
		138		↓	391	
		139		↓	376	
		140		↓	411	
		141		↓	428	
		142		↓	437	
		143		↓	406	
		144		LOC ID 146 Y2 Rep3	423	
		145		↓	418	
		146		↓	404	
		147		LOC ID 146 SU2 Rep1	575	
		148		↓	588	
		149		↓	571	
		150		loc. ID 146 SU2 Rep2	480	
		151		↓	478	
		152		↓	478	
		153		LOC ID 146 SU2 Rep3	568	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ___
5/22/12	5434	154		LOC ID 146 SU2 Rep3	557	
		155		↓	565	
		156		SRM 5861	54	
		157		SRM 2586	434	
		158		SRM 4315	228	
		159		SRM NIST 2711 *	1203	~~too high~~ okay on.
		160		↓	1225	too high ✓
		161		SRM NIST 2710 *	5976	too high.
		162		↓	5747	too high
		163		BLANK	ND	
						C.No
5/23/12	5434	1	197			
		2		SRM 5861	62	too high.
		3		"	57	✓
		4		SRM 4315	231	
		5		SRM 2586	419	
		6		SRM NIST 2711	1192	
		7		SRM NIST 2710	5782	too high
		8		SRM NIST "	5663	✓ okay.
		9		Blank	ND	
		10		LOC ID 103 Y1 Rep1	465	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ___
5/23/12	5434	11		Loc ID 103 Y1 Rep1	438	
		12		11	452	
		13		Loc ID 103 Y1 Rep2	299	
		14			295	
		15			300	
		16		Loc ID 103 Y1 Rep3	334	
		17			343	
		18			332	
		19		Loc ID 125 SU1 Rep1	1205	
		20			1264	
		21			1229	
		22		Loc ID 125 SU1 Rep2	1196	
		23			1214	
		24			1166	
		25		Loc ID 125 SU1 Rep2	1199	
		26			1157	
		27			1138	
		28		Loc ID 125 SU1 Rep3	1093	
		29			1131	
		30			1192	
		31		Loc ID 125 SU2 Rep1	314	
		32			333	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ___
5/23/12	5434	33		Loc ID 125 SU2 Rep1	318	
		34		Loc ID 125 SU2 Rep2	328	
		35			312	
		36			308	
		37		Loc ID 125 SU2 Rep3	312	
		38			330	
		39			325	
		40		Loc ID 125 Y1 Rep1	620	
		41			659	
		42			587	
		43		Loc ID 125 Y1 Rep2	382	
		44			368	
		45			373	
		46		Loc ID 125 Y1 Rep3	875	
		47			855	
		48			~~875~~	857 cn
		49		Loc ID 125 Y2 Rep1	201	
		50			193	
		51			174	
		52		Loc ID 125 Y2 Rep2	221	
		53			212	
		54			210	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result
5/23/12	5434	55		Loc ID 125 Y2 Rep 3	244	
		56		↓	247	
		57		↓	259	
		58		Loc ID 125 Y3 Rep 1	290	
		59		↓	326	
		60		↓	316	
		61		Loc ID 125 Y3 Rep 2	271	
		62		↓	270	
		63		↓	267	
		64		Loc ID 125 Y3 Rep 3	324	
		65		↓	315	
		66		↓	325	
		67		Loc ID 115 SU1 Rep 1	2093	
		68		↓	2268	
		69		↓	2057	
		70		QC1	2001	
		71		↓	1999	
		72		↓	2090	
		73		↓	2088	
		74		↓	2068	
		75		↓	2050	
		76		↓	2006	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result
5/23/12	5434	77		Loc ID 115 SU1 Rep 2	2105	
		78		↓	2018	
		79		↓	2045	
		80		Loc ID 115 SU1 Rep 3	~~2186~~ c.n 2073	
		81		↓	2186	
		82		↓	2195	
		83		Loc ID 115 SU2 Rep 1	478	
		84		↓	497	
		85		↓	488	
		86		Loc ID 115, SU2 Rep 2	463	
		87		↓	466	
		88		↓	481	
		89		Loc ID 115, SU2 Rep 3	506	
		90		↓	491	
		91		↓	523	
		92		SRM 4315	258	
		93		SRM 2586	434	
		94		SRM 2711	1178	
		95		Blank.	ND	
		96		Loc ID 143 SU1	270	
		97		↓	261	
		98		↓	274	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ____
5/23/12	5434 ~~9ch.~~	99		Loc ID 143 SU2	435	
		100		↓	462	
		101		↓	438	
		102		Loc ID 143 SU3	364	
		103		↓	356	
		104		↓	357.	
		105		Loc ID 106 SU1	531	
		106		↓	597	
		107.		↓	554	
		108		Loc ID 108 SU2	230	
		109		↓	235	
		110		↓	226	
		111		Loc ID 109 SU2	298	
		112		↓	281	
		113		↓	285	
		114		Loc ID 111 SU2	166	
		115		↓	176	
		116		↓	165	
		117		Loc ID 216 SU2	440	
		118		↓	457	
		119		↓	431	
		120		Loc ID 133 Y1	159	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ____
5/23/12	5434	121		Loc ID 133 Y1	148	
		122		↓	150	
		123		Loc ID 133 Y2	296	
		124		↓	294	
		125		↓	298	
		126		Loc ID 133 Y3	166	
		127		↓	155	
		128		↓	196	
		129		Loc ID 116 SU1 Rep 1	2002	
		130		↓	1958	
		131		↓	1910	
		132		Loc ID 116 SU1 Rep 2	1874	
		133		Standardize.	197	machine instruction.
		134		SRM 5861	48	
		135		SRM 4315	260	
		136		SRM 2586	420	
		137		NIST 2711	1231	too high.
		138		"	1217	ok.
		139		NIST 2710	5471	
		140		Blank	ND	
		141		Loc ID 116 SU1 Rep 2	1821	
		142		↓	1734	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ____
5/23/12	5434	143		Loc ID 116 SU1 Rep 2	1847	
		144		Loc ID 116 SU1 Rep 3	1982	
		145		↓	1991	
		146		↓	1937	
		147		Loc ID 116 SU2 Rep 1	~~236~~ c.n. 239	
		148		↓	~~239~~ c.n. 236	
		149		↓	~~239~~ c.n. 239	
		150		Loc ID 116 SU2 ~~Rep 2~~ ?.1	~~239~~ c.n. 231	
		151		Loc. ID 116 SU2 Rep 2	239	
		152		↓	239	
		153		↓	240	
		154		Loc ID 116 SU2 Rep 3	238	
		155		↓	212	
		156		↓	217	
		157		Loc ID 124 Y1 Rep 1	228	
		158		↓	217	
		159		↓	224	
		160		Loc ID 124 Y1 Rep 2	195	
		161		↓	181	
		162		↓	192	
		163		Loc ID 124 Y1 Rep 3	225	
		164		↓	220	

5/23/12

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ____
~~165~~	5434	165		Loc ID 124 Y1 Rep 3	229	
		166		Loc ID 124 Y2 Rep 1	275	
		167		↓	268	
		168		↓	258	
		169		Loc ID 124 Y2 Rep 2	331	
		170		↓	319	
		171		↓	320	
		172		QC1	304	
		173		↓	327	
		174		↓	333	
		175		↓	318	
		176		↓	336	
		177		↓	318	
		178		↓	327	
		179		Loc ID 124 Y2 Rep 3	235	
		180		↓	279	
		181		↓	268	
		182		↓	261	
		183		Loc ID 124 P1 Rep 1	415	
		184		↓	415	
		185		↓	437	
		186		Loc ID 124 P1 Rep 2	396	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ____
5/23/12	5434	187		Loc ID 124 P1 Rep 2	388	
		188		↓	439	
		189			422	
		190			415	
		191			407	
		192			404	
		193			431	
		194			433	
		195			425	
		196		Loc ID 124 P1 Rep 3	488	
		197			485	
		198			503	
		199		QCL	470	
		200			475	
		201			476	
		202			499	
		203			482	
		204			502	
		205			475	
		206		Loc ID 124 SU2 Rep 1	252	
		207			241	
		208		↓	249	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ____
5/23/12	5434	209		Loc ID 124 SU2 Rep 2	233	
		210			246	
		211		↓	249	
		212		Loc ID 124 SU2 Rep 3	264	
		213			286	
		214		↓	305	
		215		Loc ID 124 SU4 Rep 1	474	
		216			482	
		217		↓	475	
		218		Loc ID 124 SU4 Rep 2	428	
		219			428	
		220		↓	431	
		221		Loc ID 124 SU4 Rep 3	378	
		222			385	
		223		↓	409	
		224		SRM 1886	407	
		225			396	
		226		↓	388	
		227			399	
		228			387	
		229		↓	382	
		230		SRM 5861	51	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ___
5/23/12	5434	231		SRM 4315	247	
		232		SRM 2586	440	
		233		SRM 2711	1185	
		234		SRM 2710	5926	too high.
		235		Blank.	ND	
						C.M.
5/24/12	5434		197	Standarized		
		2		5861	61	Pass
		3		4315	238	
		4		~~28~~ 2586	446	
		5		2711	1194	
		6		2710	5818	
		7		Blank	ND	
		8		SD-01	1340	
		9		↓	1499	
		10			1480	
		11		SD-02	454	
		12			362	
		13			460	
		14			422	
		15			406	
		16			382	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ___
5/24	5434	17		SD-03	549	
		18			592	
		19			476	
		20			518	
		21			553	
		22			488	
		23		SD-04	339	
		24			297	
		25			279	
		26		SD-Dup	1466	
		27		"	1452	
		28		" QCI 1	1431	
		29		QCI 2	1459	
		30		" 3	1416	
		31		" 4	1446	
		32		" 5	1414	
		33		" 6	1460	
		34		" 7	1491	
		35		2711	1212	
		36		5861	61	
		37		2710	5723	
		38		2586	430	
		39		4315	249	
		40		Blank	ND	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ___
5-10-12	5444	1-2	206	calib	—	
		3		BLANK	-4	
		4		5861	55	
		5		4315	235	
		6		408	463	(Low)
		7		408	442	(Low)
		8		408	508	
		9		2711	1155	
		10		2710	5692	
		11		Loc 119 SU2	174	
		12		" "	170	
		13		" "	169	
		14		" SU1	408	
		15		" "	403	
		16		" "	406	
		17		Loc 160 SU1/Rep1	645	
		18		" " " /11	634	
		19		" " "	637	
		20		" " Rep2	770	
		21		" "	731	
		22		" " "	661	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result Pb	Result ___
5-10-12	5444	23		Loc 160 SU1/Rep.3	689	
		24		" " "	614	
		25		" " "	680	
		26		SU2/Rep1	244	
		27		" "	258	
		28		" "	270	
		29		" Rep2	258	
		30		" "	265	
		31		" "	259	
		32		" Rep3	281	
		33		" "	279	
		34		" "	277	
		35		" Y1/Rep1	431	
		36		" "	426	
		37		" "	440	
		38		" /Rep2	373	
		39		" "	360	
		40		" "	352	
		41		" Rep3	432	
		42		" "	399	
		43		" "	414	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5-10-12	5444	44		Loc 160. Y2/Rep1	213	
		45		" "	217	
		46		" "	217	
		47		" " Rep2	226	
		48		" "	220	
		49		" "	209	
		50		" Rep3	509	
		51		" "	499	
		52		" "	540	
		53		BLANK	-1	
		54		5861	48	
		55		4315	236	
		56		408	497	
		57		2711	1165	
		58		2710	5822 HIGH	
		59		2710	5825	
				END		

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5-11-12	5444	1	206	STANDARDIZE	—	
		2		5861	46	
		3		4315	265	
		4		4315	—	
		5		4315	224	
		6		4315	—	
		7		BLANK	-3	
		8		BLANK	—	
→		CORRECTED LEAD SETTING				
		9		2710	5564	
		10		408	452	
		11		2711	1151	
		12		LOC 163 Y1 Rep1	111	
		13		" "	104	
		14		" "	119	
		15		LOC 163 Y1 REP2	118	
		16		" "	129	
		17		" "	130	
		18		LOC 163 Y1 REP3	~~136~~ PA	136
		19		" "	138	
		20		" "	~~16~~ PA	136
		21		LOC 163 Y2 REP1	91	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/11/2012	5444	22		163 Y2 REP 1	105	
		23		" "	97	
		24		Loc 163 Y2 REP 2	110	
		25		" "	103	
		26		" "	104	
		27		Loc 163 Y2 REP 3	139	
		28		" "	133	
		29		" "	132	
		30		Loc 163 SU1 e845	73	
		31		" "	74	
		32		" "	73	
		33		Loc 163 SU1 REP 2	87	
		34		" "	91	
		35		" "	91	
		36		Loc 163 SU1 REP 3	84	
		37		" "	84	
		38		" "	91	
		39		PC Loc 163 SU1 REP 3	91	
		40		PC	91	
		41		PC	94	
		42		PC	84	
		43		PC	75	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/11/12	5444	44		PC	85	
		45		PC	91	
		46		PC	78	
		47		4315	234	
		48		2711	1128	
		49		408	467	
		50		2710	5682	
		51		5861	48	
		52		BLANK	1	
		53		Loc 163 SU2 REP 1	136	
		54		" "	~~126~~*	129
		55		" "	130	
		56		Loc 163 SU2 REP 2	140	
		57		" "	136	
		58		" "	129	
		59		Loc 163 SU2 REP 3	126	
		60		" "	131	
		61		" "	124	
		62		2710	5632	
		63		2711	1188	
		64		408	503	
		65		4315	234	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/11/12	5444	66		5861	48	
↓	↓	67		BLANK	3	
		-		END		
5/21/12	5444	1	206	STANDARDIZE		
		2		BLANK	4	
		3		408	496	
		4		5861	42	>-2 SD
		5		4315	220	>-2SD
		6	206	RESTANDARDIZE		
		7		5861	45	>-2SD
		8		4315	224	>-2SD
	RESET		SOFTWARE AND XRF UNIT			
		9	206	STANDARDIZE		
		10		BLANK	4	
		11		408	493	
		12		5861	51	
		13		4315	252	
✓	✓	14		2711	1149	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/21/12	5444	15		2710	5573	
		16		2710	5652	
		17		2710	5693	
		18		Loc 174 SU 3	1007	
		19		" "	936	
		20		" "	913	
		21		Loc 174 SU2	301	
		22		" "	309	
		23		" "	304	
		24		Loc 174 SU1	~~324~~ PA	324
		25		" "	361	
		26		" "	358	
		27		Loc 301 SUNSET PARK	84	
		28		" "	90	
		29		" "	94	
		30		Loc 302 BELLY PORTER	54	
		31		" "	48	
		32		" "	47	
		33		Loc 176 SU4	283	
		34		" "	296	
		35		" "	322	
✓	✓	36		103 SU 2 RPL3	365	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/21/12	544	37		103 SU2 RPL3	362	
		38		" "	355	
		39		Loc 300 WEST CITY	36	
		40		" "	40	
		41		" "	51	
		42		4315	237	
		43		2711	1199	
		44	209	STANDARDIZE		
		45		2710	5746	
		46		408	488	
		47		Loc 105 Y2 Rep3	695	
		48		" "	682	
		49		" "	744	
		50		PRECISION CHECK (SOP)	700	
		51		PC	697	
		52		PC	671	
		53		PC	694	
		54		PC	717	
		55		PC	687	
		56		PC	712	
		57		Loc 105 Y1 Rep2	624	
		58		" "	560	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
		59		Loc 105 Y1 Rep2	560	
		60		Loc 105 Y1 Rep3	504	
		61		" "	519	
		62		" "	529	
		63		Loc 105 Y1 Rep1	563	
		64		" "	570	
		65		" "	551	
		66		Loc 105 Y2 Rep1	524	
		67		" "	521	
		68		" "	519	
		69		Loc 105 Y2 Rep2	650	
		70		" "	692	
		71		" "	690	
		72		Loc 139 SU1	222	
		73		" "	221	
		74		" "	244	
		75		Loc 139 SU2	176	
		76		" "	151	
		77		" "	152	
		78		Loc 139 SU3	393	
		79		" "	408	
		80		" "	381	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/21/12	5444	MEAN	AND	95% UCL ≈ 400 PPM		*
		RETEST	PER	SOP		
	~~81~~	81		LOC 139 SU3	384	
	~~82~~	82		" "	393	
	~~83~~	83		" "	432	
		84		" "	417	
		85		" "	396	
		86		" "	422	
		87		" "	412	
		88		LOC 127 SU1	687	
		89		" "	664	
		90		" "	681	
		91		LOC 127 SU2	209	
		92		" "	212	
		93		" "	193	
		94		LOC 103 SU1 Rep1	1153	
		95		" "	1125	
		96		" "	1131	
		97		LOC 103 SU1 Rep2	1168	
		98			1172	
		99			1200	
		MEAN AND 95% UCL ≈ 1200 Retest PER SOP				*

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/21/12	5444	100		LOC 103 SU1 Rep2	1181	
		101		" "	1174	
		102		" "	1216	
		103		" "	1216	
		104		" "	1220	
		105		" "	1202	
		106		" "	1202	
		107		" "	1215	
		108		LOC 103 SU1 Rep3	1043	
		109		" "	1035	
		110		" "	1126	
		111		LOC 103 SU2 Rep1	333	
		112		" "	357	
		113		" "	333	
		114		LOC 103 SU2 Rep2	330	
		115		" "	339	
		116		" "	325	
		117		LOC 103 SU3	495	
		118		" "	487	
		119		" "	523	
		120		LOC 103 Y2 Rep1	692	
		121		" "	719	

* Only record resolution each time unit is calibrated.

XRF SAMPLE LOG

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/21/12	5444	122		LOC 103 Y2 Rep1	682	
		123		LOC 103 Y2 Rep2	400	
		124		" "	378	
		125		" "	390	
		MEAN and UCL 95% ≈ 400			~~397~~ PA	
		Retest Per SOP			~~397~~ PA	*
		126		LOC 103 Y2 Rep2	397	
		127		" "	399	
		128		" "	447	
		129		" "	374	
		130		" "	408	
		131		" "	379	
		132		" "	382	
		133		" "	395	
		134		LOC 103 Y2 Rep3	582	
		135		" "	613	
		~~16~~ PA		" "	~~601~~ PA	
		136		" "	601	
		137		2710	5725	
		138		2711	1175	
		139		408	486	
		140		4315	233	

Date	XRF Ser No.	XRF Run #	Res* eV	Site Name/Sample ID	Result	Result
5/21/12	5444	141		5861	5.7	
		142		BLANK	1	
				END		

* Only record resolution each time unit is calibrated.

Valerie

SU3 Drip Zone (5434)

Run #	Transect	Dist	[Pb]	Avg. [Pb]
52	1	30"	479	
53			429	413
54			331	
55		+2'	196	
56			226	220
57			238	
58		+4'	150	
59			135	155
60			180	
61		+6'	144	
62			136	133
63			119	
				4-9-12
64	3	0'		
65		~~6'~~	657	
66			676	637
67	3	2'	578	
68			340	
69			379	378
70	3	4'	414	
71			353	
72			271	320
73	3	6'	335	
74			256	
75			305	323
76	3	8'	408	
77			255	
78			363	326
			361	

LOC ID ~~101~~ 103 5444

~~5~~

616 Warne St

Sean (5420)

SU1

Run #				
33	4	0	150	
34			133	157
35			188	
36		2'	161	
38			147	129
39			80	
40		4'	124	
41			59	102
42			149	
43			76	
6424	LOC ID 103			4-9-12
53	4	0'	1175	
54			1028	1092
55			1074	
56	4	2'	779	
57			760	795
58			847	
59	4	4'	503	
60			646	
61			611	575
62			701	
63			415	
64	4	6'	630	
65			309	
66			773	594
			665	
68	4	8	432	
			517	459
			428	

SU1

SU2

SU2

Paul

SU1 (5444)

Run #				
37	2	0	240	
38			202	211
39			190	
40		2'	253	
41			243	268
42			310	
43		4'	263	
44			266	253
45			230	
46		6'	119	
47			218	172
48			178	
49		8'	196	
50			239	208
51			190	
SU3	3			
52		2'	250	
53			226	234
54			226	
55		4'	201	
56			263	219
57			194	
58		6'	186	
59			132	168
60			187	
61		8'	155	

SU2

Location ID _____ XRF Ser # _____

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]

Location ID _____

XRF Ser #_____

Loc ID 103 XRF 5434

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
25	1	0	929	
26			862	
27			463	849
28			962	
29			1030	
30		2'	779	
31			790	837
32			944	
33		4'	507	
34			515	542
35			605	
36		6"	474	
37			417	419
38			368	
39		8'	539	
40			774	
41			440	484
43			356	
44			312	
45	1	0	602	
46		30"	424	
47			510	432
48			364	
49		0	353	
50		0	670	541
51		2'	424	
52			470	478
53			542	
7	SW1/2	0	1651	
8			1124	1250
9			975	
10	2	2'	1653	
11			759	932
12			989	
13	2	4'	494	
14			470	524
15			608	
16	2	6	510	
17			459	393
18			209	
19	2	8'	402	
20			503	420
21			356	

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
22	SW3/2	30"	216	
23			253	235
24			235	
25	SW3/3	30"	250	
26			299	250
27			261	
28	SW3/4	30"	231	
29			299	265
30			281	
37	SW1/4	0	847	
38			678	732
42			671	
43	4	2	594	
44			537	526
45			567	
46	4	4	446	
47			764	604
49			603	
50	SW3/1	30"	273	
51			694	1364
52			2605	
53	1	2'	507	
54			622	563
55			560	
56	1	4	357	357
61	SW3/1	30"	652	
62			627	626
63			598	
64	1	2'	551	
65			414	463
66			425	
67		4'8'	373	373
49	SW1/4	0	1086	
50			1439	1362
51			1560	
52	4	2'	1690	
53			954	1130
54			1345	
55	4	4'	439	
56			429	447
57			472	
58	SW1/3	0'	1103	
59			1040	1018
60			910	
61	3	2'	750	

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
62	SW1/3	2'	834	
63	3		292	625
64	SW3/1	30"	147	
65			128	123
67			95	
68	SW3/2	30"	177	
69			149	109
154	SW1/2	0	460	
155			546	555
156			658	
157	2	2'	219	
158			125	191
159			228	
160	SW1/4	0	352	
161		QC 1	541	
162		QC 2	438	
163		QC 3	427	
164		QC 4	385	
165		QC 5	521	506
166		QC 6	478	
167		QC 7	446	
168			496	
169			733	
170			722	
171			529	
173		2'	414	
174			323	329
175			249	
176	SW1/1	0	438	
177			333	311
178			162	
179	1	2'	182	
180			283	240
181			256	
182	SW3/2	30"	233	
183			320	255
185			212	

Location ID _____ XRF Ser # _____

Date 4/8/2012

SRF# 5434

Loc ID	Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
139	14	1	0	145	
	15			139	140
	16			136	
	17		2'	128	
	18			103	131
	19			162	
	20		4'	67	
	21			66	
	22			102	82
	23			118	
	24			56	
	25		6'	38	
	26			54	46
	27			46	
	28		8'	22	
	29			35	
	30			64	44
	31			63	
	32			37	
174	64	1	0	354	
XRF	65			298	321
5434	66			311	
	67		2'	217	
SU1	68			273	233
	69			210	
	70		4'	388	
	71			440	
	72			1579	679
	73			656	
	74			332	
	75		6'	323	
	76			239	316
	77			386	
	78		8'	218	
Date 01	79			218	232
4/9/2012	03			260	
	04		4'	269	
	05			261	568
	06			309	
SU1	07			1435	
	08		10'	151	
	09			210	176
	10			168	
	11			158	
	12			193	

Date 4/8/2012

SRF# 5420

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
9	2	0	246	
10			245	279
11			346	
12		2'	227	
13			237	
14			387	275
15			233	
16			293	
17		4'	341	
18			250	280
19			248	
20		6'	228	
21			162	205
22			224	
23		8'	154	
24			164	196
25			269	
26		10'	110	
27			166	140
28			146	
29		55'	126	
54 34 51		65'	79	
SU3 13	2	30"	815	
5434 14			712	731
XRF 15			666	
16		2'	304	
17			236	306
18			379	
19		4'	297	
4/9/2012 20			181	285
21			377	
22		6'	228	
23			172	194
24			184	

Date 4/8/2012

SRF# 5434

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
33	3	0	70	
34			57	105
35			190	
36		2'	106	
37			310	175
38			109	
39		4'	139	
40			165	160
41			176	
42		6'	160	
43			174	151
44			119	
45		8'	186	
46			154	~~173~~
47			179	167
48		10'	153	
49			119	135
50			133	
54 26 30		8'	168	
31			151	

Location ID 139 & 174

XRF Ser # 5434

	Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
176	175	SW1/1	0	386	
	176			202	337
	177			423	
5434	178	1	2	217	
	179			272	247
	180			253	
	181	SW1/2	0	269	
	184			265	269
	185			273	
	186	SW3/1	30'	415	4
	187			330	332
	188			261	
	189	SW3/3	30"	175	
	190			163	164
	191			155	
218	91	SW3/3	30"	111	
5434	92			106	120
	93			144	

Run #	[illegible]	[illegible]	[illegible]	Avg. [illegible]

Run #	[illegible]	[illegible]	[illegible]	Avg. [illegible]

Location ID _____ XRF Ser #_____

XRF#5420

	Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
246	110	SU1/2	0	571	
	111			372	418
	112			380	
	113		2'	246	
	114			322	291
	115	~~SU3/1~~		305	
	116	SU3/1	30"	475	
	117			474	505
	118			567	
	119		2'	347	
	120			291	355
	121			426	
	186	SU3/1	30"	299	
133	187			229	212
	188			107	
	189	SU3/2	30"	167	
	190			209	
	191			597	309
	192			269	
	193	SU3/3		150	
XRF 6424	194			179	161
	195			173	
	196	SU3/1	30"	308	
155	197			166	244
	198			259	
4-11-12	48	T2	0	488	501 ~~520~~
	49			465	
OC	50			~~519~~	
ID	51		2'	536	516 ~~540~~
119	52			501	
	53			483	
	54		4'	115	406 ~~450~~
XRF	55			568	
5420	56			537	
	57		6'	374	433 ~~450~~
	58			408	
	59			519	
	60		50'	182	178
	61			175	
	62		8'	383	
	63		10'	410	430
	64		10'	455	
	65		10'	426	

	Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
4-11-12	66		14'	307	
	67		14'	523	380
	68		14'	312	
	69		20'	314	
	70		20'	396	337
	71		20	302	
108	75	SU3/1	30"	101	
XRF 5420	76			107	108
	78			116	
	79	SU3/1	30"	219	
121	80			216	230
	81			255	
	84	2	30"	208	
	85			310	281
	86			324	
	87	3	30"	286	
	88			284	247
	89			231	
	90	4	30"	352	
	91			288	304
	92			272	
	93	SU3/2	30"	123	
123	94			130	122
	95			114	
	96	SU1/1	0	269	
	97			204	248
	98			220	
	90	SU1/2	0	241	
XRF 5421	91			276	249
	99			229	
109	102	SU3/1	30"	245	
	103			223	247
	104			224	
	94	SU3/4	30"	401	
	95			224	282
	96			221	
	105	SU3/2	30"	285	
	106			234	261
	107			263	
	97	SU3/3		337	
	98			211	277
	99			285	

	Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
111	108	SU1/1	0'	281	
	109			76	205
	110			258	
	100	SU1/2	0'	264	
	101			228	251
	102			260	
	103	SU1/2	6'	131	131
	164	SU1/1	0	147	170
216	165			203	~~187~~
	166			161	
	107		2'	300	
	108			202	228
	109			212	
	147	SU3/1	~~4~~2	561	
	148			611	616
	149			677	
	150	1	4'	600	
	151			405	462
	152			381	
	153	1	6'	102	
	154			523	368
	155			479	
	156	SU1/1	0	514	
217	157			425	429
	158			347	
	159	1	2	316	
	160			306	291
	161			250	
	162	SU1/2	0	295	
	163			217	282
	164			334	
	165			213	
	166			260	215
	167			233	
	168	SU3/2	30"	544	
	169			488	433
	170			266	
	171	2	2'	252	
	172			285	263
	173			251	
	174	SU3/3	2'	396	
	176			320	382
	174			431	

Location ID _____

XRF Ser # _____

XRF 5444

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
74	1	0	248	
75			226	240
76			248	
77		6	155	
78			160	190
79			257	
80	2	0	87	
81			205	180
82			248	
83		6	135	
84			134	134
85	1	30in	124	
86	VOID			625
87			141	
88			110	
89	2	30in	228	
90			214	222
91			205	
XRF 5420				
94	1	0	246	
95			244	260
96			291	
97		4	281	
98			300	313
99			360	
100		6	411	
101			241	306
102			268	
XRF 5444				
135	4	30in	336	
136			304	356
137			428	
138		2	217	
139			312	264
140			303	
9	SW3/1	30"	62	
10			47	61
11			75	
12	1	2'	66	
13			64	60
14			51	

XRF 5434

Run #				
15	SW3/3	30"	30	
16			74	62
17			82	
18	SW3/4	30"	74	
19			51	59
20			55	
21	SW3/3	30"	101	
22			95	93
23			92	
32	SW1/2	0	107	
33			79	91
34			86	
35	2	2	120	
36			66	83
37			62	
38	2	4	120	
39			90	89
40			54	
41	2	6	95	
42			85	77
43			53	
44	SW3/2	30"	379	
45			506	447
46			455	
47	2	2	306	
48			311	269
49			190	
33	SW1/1	0	103	
34			92	117
35			156	
47	SW1/1	0	214	
48			107	192
49			256	
50	1	2	106	
51			106	102
52			100	
53	SW1/1	0	254	
54			233	233
55			211	
56	1	2'	146	
57			161	158
58			166	
59	SW3/4	30"	63	
60			75	63
61			51	

5420

Run #				
21	SW1/1	0	200	
22			159	182
23			187	
24	1	2	146	
25			193	136
26			68	
27	1	4	111	
29			195	132
28			191	
30	1	6	160	
31			211	178
32			164	
162	SW3/3	30"	286	
164			169	193
165			121	
166	3	2	263	263
234	3	4	551	527
235	T4	30'	503	
236	T4	4'	184	
237			174	159
238			119	
27	SW1/1	2'	56	
28			87	68
29			61	
62	SW3/3	30"	190	
63			181	193
64			209	
65	SW3/2	30"	298	
66			204	277
67			328	
76	SW3/1	30"	91	
77			72	68
78			40	
79	SW3/2	30"	173	173
95	SW3/4		256	
96			164	213
97			218	
98	SW3/1	30"	459	
99			371	349
100			216	
99	SW3/2	30"	128	98
102			67	

Location ID _____ XRF Ser # _____

XRF #6425

	Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
127	89	SW1/1	0	8	
	90			529	558
	91			461	
			2'	377	
				560	Failed QC
	95			461	
SW1	96			1109	
	97			491	
	98			586	
	100			445	
	~~103~~	✓	✓		
127	131	4	30	362	
XRF =	5444	132	30	742	473
	133		30	450	
SW3	134		30	339	
	135	4	2	168	163
			2	159	
LOC	115	2	30"	164	
ID	116		30"	216	203
155	117		30"	228	
	118		2'	179	
XRF	119		2'	186	188
5434	120	✓	2'	198	
4-10					
SE5	121	4	30	97	
	122		30	386	
LOC	123		30	389	290
154	124		30	289	
4-10					

XRF # 5434

	Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
127	72	SW1/3	0	698	
	73			863	
	74		QC 1	731	
	75		QC 2	611	
	76		QC 3	619	686
SW1	77		QC 4	603	
	78		QC 5	688	
	79		QC 6	708	
	80		QC 7	653	
	81		2'	442	
	82		2'	~~400~~	425
	83		2'	~~425~~	
			4'		
	84		4	57	201
	85		4	289	
	XRF # 5444				
4-11					
LOC	28	2	0	310	
215	29			349	327
SW2	30			303	
	31		2	310	
	32			275	287
	33			278	
	34		4	387	
	35			240	318
	36			309	
LOC	~~[illegible]~~		~~50~~	~~159~~	
45	~~[illegible]~~		~~4~~	~~[illegible]~~	
SW3	37	4	30 in	693	
	38			576	680
	39			771	
	40		2	303	
	41			234	309
	42			242	
LOC	43	1	0	461	
120	44			346	
SW2	45			820	734
	46			833	
	47			774	
	48		2	518	
	49			664	547
	50			510	

XRF 5420

	Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
	36	1	0	270	
LOC	37			317	300
215	38			378	
4-11	39		2	390	
SW3	40			273	338
	41			351	
	42		4	370	
	43			279	351
	44			383	
	45		30"	314	
	46			234	229
	47			139	
LOC	51	1	4	654	
120	52			839	751
SW3	53	VOID			
4-11	54			742	
	55		8	863	
	56			716	861
	57			906	
	58		12	550	
	59			885	
	60			720	780
	61			695	
	62			956	
	63		20	793	
	64			496	
	65			429	627
	66			733	
	67			707	
	68		30	1008	
	69			415	842
	70			1104	
	71		40	992	1002
	72			1013	

Location ID _____

XRF Ser # _____

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
105	2	0"	607	
106			561	
107	void			590
108			603	
109		2'	745	
110			472	
111			750	601
112			465	
113			573	
115		4'	1083	
116			840	
117			693	797
118			730	
119			639	
120		6'	513	
121			1314	
122			983	933
123			556	
124			1301	
125		10'	661	
126			624	619
127			512	
44	3	0"	852	
45			742	888
46			1071	
47		2'	505	
48			537	505
49			473	
50		4'	456	
51			433	437
52			424	
53	3	30"	860	
54			877	
55			887	
56			908	
57			868	
58			887	
59			914	
60			593	
61			714	722
62		2'	381	
63			470	420
64			409	
65		4'	478	
66			472	446
67			388	
68		10'	309	
69			506	410
70			416	

Location ID _____

XRF 5420

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
71	4	30"	717	
72			770	787
73			875	
74		2'	576	
75			552	548
76			516	
68	1	0	940	
69			886	353
70			733	
72		2'	479	
74			244	351
71			330	
75	3	30"	366	
76			338	356
77			365	
78		2'	386	386
79		0"	572	
80			680	628
81			633	
82	1	0"	252	
83			321	284
84			279	
85		30	253	
87			235	245
88			247	
103	1	2'	154	
104			270	235
105			282	
106	2	30"	271	
107			198	
108	void			236
109			241	
110		0"	321	
111			359	362
112			407	
137	1	0"	493	
138			454	448
139			658	
140			426	
141			210	
142		2'	146	
143			171	196
144			272	

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
140	2	0	531	
141			758	627
142			594	
143		2	318	
144			288	271
145			209	
124	5	0"	609	609
125		2'	301	301
	Loc 106			
107	3	30"	119	
108			137	122
109			112	
104	1	30"	257	
105			254	294
106			372	
145	3	30"	391	
146			218	282
147			239	
148		2'	196	
149			143	167
150			164	
8	1	0	322	294
9			236	
10			326	
11	1	20'	92	
12		2'	187	
13			155	
14			214	
8	SU3	30"	85	
9	T2		60	
10			431	
11			67	
12	T4	30	403	
13			408	
14			542	
15	T4	2'	158	
16			157	
17			133	
10	T2	30	906	
11			971	
12		2'	199	
13		2'	179	
14	T3	30"	187	
15	@		408	
16	Sled		369	
17		2'	126	

XRF Ser # _____

All LOC IP 129 readings

6424

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
10	4	0	59	
11			37	57
12			75	
13	4	2'	118	
14			142	121
15			103	
16	4	4'	183	
17			154	149
18			111	
19	4	6"	154	
20			110	118
21			91	
22	4	8'	130	
23		8'	120	127
24			130	
25	SU3	30"	145	
26	Transect 2		96	133
27			159	
28		2'	10ID	
29		2'	186	177
30			164	
31			181	
32		4'	146	
33			136	146
34			157	
~~44~~	~~2~~	~~0~~	~~17~~	
45	2 (su1)	0	1366	
46	2		1189	1283
47			833	
48		2'	682	
49			467	572
50			567	
51		4'	400	
52			494	473
53			524	
54		6'	310	
55			409	372
56			397	
57		8'	134	
58			334	246
60			271	

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
25	3 (su1)	0'	171	
26			161	166
27			167	
28	3	2'	334	252
29			156	~~238~~
30			219	
31	3	4'	187	
32	3	2'	300	
33	3	2'	244	186
34	3	4'	138	
35	3	4'	233	
36	3	6'	127	
37			185	138
38			103	
39	3	8"	160	
40			151	166
41			187	
42	su3/1	30"	462	
43			273	411
44			185	
45			724	
46	1	2'	395	
47			290	294
48			196	
49		4'	268	
50			226	236
51			213	
61	su3/2	30"	447	
62			392	488
63			625	
64	2	2'	303	
65			309	306
66			306	
67	2	4'	219	
~~54~~	~~correct~~		~~9292~~	
55			74	
56			63	
57			70	71
58			58	
59			69	

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
60			53	
61			49	47
62			53	
63			47	
64			43	
09	1	0"	1019	
10			726	848
11			799	
12		2'	967	
13			1265	1115
14			1013	
15		4'	314	
16			618	
17			526	500
20			566	
21			479	
22		6'	416	
24	1	0"	603	
25			554	657
26			816	
29		2"	1126	
30			1144	1168
31			1234	
33		4'	1882	
34			1584	1503
35			1043	
36		6'	1097	
37			1547	1373
38			1476	
39		10'	318	
40			785	
41			996	757
42			988	
43			700	

Location ID _____ XRF Ser # _____

4/10/12

Run #	Transect	Dist	[Pb]	Avg. [Pb]
ID	105	X 5	144	
74	1	0	530	501
75	1	0	482	
76	1	0	501	
77	1	2'	378	
78	1	2'	363	359
79	1	2'	327	
80	1	4'	353	353
ID	105	X 5	144	
81	4	0	806	770
82	4	0	730	
83	4	0	774	
84	4	2'	452	
85	4	2'	404	452
86	4	2'	501	
ID	116	X 5	444	
105	1	0	1015	
106	1	0	936	1021
107	1	0	1102	
108	1	2'	936	
109	1	2'	850	1029
110	1	2'	1132	
111	1	2'	1200	
112	1	4'	504	
113	1	4'	455	419
114	1	4'	299	
115	1	6'	242	242

Run #				
ID	105	X 5	434	
39	2	0	697	718
40	2	0	573	
41	2	0	726	
42	2	0	714	
43	2	2'	390	
44	2	2'	431	404
45	2	2'	389	
46	2	4'	424	
47	2	4'	[illegible]	455
48	2	4'	452	
ID	116	X 5	420	
77	2	0	1020	1066
78	2	0	1182	
80	2	0	[illegible]	
81	2	2'	915	
82	2	2'	973	920
83	2	2'	void	
84	2	2'	872	
85	2	4'	765	679
86	2	4'	760	
87	2	6'	325	
88	2	4'	508	
89	2	4'	681	
ID	106	X 6	424	
147	4	0	273	
148	4	0	299	290
149	4	0	299	
150	4	2'	256	
151	4	2'	205	
152	4	2'	void	237
153	4	2'	252	

ID 105 X 6424

Run #				
130	4	30"	648	
131	4	30"	void	
132	4	30"	647	639
133	4	30"	void	
134	4	30"	632	
135	4	2'	316	
136	4	2'	381	
137	4	2'	void	375
138	4	2'	void	
139	4	2'	373	
	2			
ID	106	X 5	420	
90	3	0	398	327
91	3	0	271	
92	3	0	312	
93	3	2'	177	
94	3	2'	183	185
95	3	2'	196	
ID 106		X 5	420	
96	2	30"	306	320
97	2	30"	354	
98	2	30"	317	
99	2	2'	171	
100	2	2'	154	173
101	2	2'	190	

Location ID _____ XRF Ser #_____

714 [illegible]

X 6420

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
87	3	0	908	
88	void	0		1010
89	3	0	936	
90	3	0	1037	
91	3	2'	void	
92	3	2'	924	
93	3	2'	void	
94	3	2'	982	992
95	3	2'	void	
96	3	2'	758	
97	3	2'	984	
98	3	2'	912	
99	3	4'	void	
100	3	4'	522	
101	3	4'	490	600
102	3	4'	954	
103	3	4'	695	
104	3	4'	519	
x	x	x	x	
117	ID	5444	440	
31	1	0	1207	
32	1	0	1378	1269
33	1	0	1223	
34	1	2'	1103	
35	1	2'	674	
36	1	2'	1158	1000
37	1	2'	1067	
38	1	4'	684	
39	1	4'	925	759
40	1	4'	769	
x	x	x	x	x
ID	115	5444		
41	3	0	923	
42	3	0	820	798
43	3	0	751	
44	3	2'	1000	
45	3	2'	991	944
46	3	2'	1031	
47	3	2'	1165	
48	3	4'	665	
49	3	4'	395	582
50	3	4'	500	
51	3	4'	735	
52	3	4'	619	

X 6425

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
19	4	0	928	
20	4	0	void	
21	4	0	623	959
22	4	0	void	
23	4	0	926	
24	4	0	1000	
25	4	0	1174	
26	4	2'	635	
27	4	2'	927	865
28	4	2'	1000	
29	4	2'	1034	
30	4	4'	357	
31	4	4'	108	824
32	4	4'	923	
33	4	6'	697	
34	4	6'	475	749
35	4	6'	966	
36	4	6'	962	
x	x	x	x	
ID 119	5444			
53	3	6'	417	
54	3	6'	512	441
55	3	6'	395	

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
ID	115	x 5444		
56	3	30"	97	
57	3	30"	123	128
58	3	30"	166	
59	3	2'	155	
60	3	2'	164	150
61	3	2'	114	
x	x	x	x	x
ID 119		x 5444		
62	4	30"	1163	
63	4	30"	888	718
64	4	30"	708	
65	4	30"	414	
66	4	30"	479	
67	4	2'	443	
68	4	2'	424	438
69	4	2'	447	
70	4	4'	391	
71	4	4'	598	524
72	4	4'	583	
73	4	6'	290	290

Location ID 116, 115

XRF Ser #_____

4/12

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
Loc	164	x	5434	
40	1	0	96	69
41	1	0	133	
42	1	0	98	
~~x~~	~~x~~	~~x~~	~~x~~	
Loc	159	x	5420	
77	2	0	402	599
78	2	0	847	
79	2	0	547	
80	2	2'	195	
81	2	2'	232	217
~~82~~	~~2~~	~~2'~~	~~227~~	
Loc	159	x	5434	
59	1	30"	402	341
60	1	30	314	
61	1	30	306	
62	1	2'	363	
63	1	2'	354	354
~~64~~	~~1~~	~~2'~~	~~344~~	
~~x~~	~~x~~	~~x~~	~~x~~	
Loc	160	x	5434	
64	2	0	1174	
65	2	0	1097	1334
66	2	0	1730	
67	2	2'	661	
68	2	2'	1048	449
69	2	2'	1137	
70	2	4'	384	
71	2	4'	476	424
72	2	4'	413	
73	2	6'	370	
74	2	6'	361	376
75	2	6'	398	
Loc	218		x5434	
82	1	0	193	
83	1	0	132	164
84	1	0	167	
85	1	2'	126	
86	1	2'	124	123
87	1	2'	119	
88	1	4'	178	
89	1	4'	119	146
90	1	4'	141	

Location ID _____

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
Loc	157	X	5444	
62	1	30"	032	
63	1	30"	037	40
64	1	30"	051	
65	2	2'	089	
66	2	2'	080	79
67	2	2'	067	
68	3	30"	044	
69	3	30"	095	67
70	3	30"	062	
71	4	30"	049	
72		Standardize		
73	4	30"	041	49
74	4	30"	058	
Loc	190	x	5444	
75	1	0	139	
76	1	0	113	127
77	1	0	129	
Loc	180	x	5444	
78	3	30"	108	
79	3	30"	100	104
80	3	30"	104	
Loc	218	x	5434	
91	1	6'	129	
92	1	6'	169	139
93	1	6'	118	
Loc	218	x	5420	
120	2	6'	~~180~~	177
121	2	6'	176	166 avg
122	2	6'	175	

XRF Ser # _____

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
Loc	160	x	5420	
83	1	0	1942	135
84	1	0	1172	
85	1	0	930	
86	1	2'	381	
87	1	2'	937	672
88	1	2'	697	
89	1	4'	445	
90	1	4'	399	448
91	1	4'	500	
92	1	6'	315	
93	1	6'	412	399
94	1	6'	469	
95	1	8'	149	149
Loc	160	x	5420	
96	1	30"	170	209
97	1	30"	221	
98	1	30"	237	
~~x~~	~~x~~	~~x~~	~~x~~	
Loc	179	x	5420	
99	1	0	113	
100	1	0	105	118
101	1	0	137	
102	1	2'	100	
103	1	2'	68	90
104	1	2'	71	
Loc	179	x	5420	
105	4	30"	119	
106	4	30"	104	104
107	4	30	84	
108	3	30"	121	
109	3	30"	115	108
110	3	30"	88	
Loc	218	x	5420	
111	2	0	199	
112	2	0	205	190
113	2	0	166	
114	2	2'	073	
115	2	2'	090	91
116	2	2'	111	
117	2	4'	074	70
118	2	4'	076	
119	2	4'	060	

4112

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
Loc 222				
		X64	124	
136	1	0	215 ~~AD~~	
137	1	0	~~10488~~	~~111~~
138	1	0	~~11758~~	120
139	1	2'	101	
140	1	2'	67	112
141	1	2'	169	
142	1	4'	~~95 AD~~	
143	1	4'	~~60 AD~~	64
144	1	4'	67	
145	1	6'	100	
146	1	6'	142	112
147	1	6	95	
x	x	x	x	
Loc	221	X64	124	
148	1	0	143	
149	1	0	99	111
150	1	0	92	
151	1	2'	87	
152	1	2'	143	109
153			gone	
154	1	2'	98	
155	1	4'	92	
156	1	4'	78	85
157	1	4'	84	
159	1	6'	111	
160	1	6'	1187	105
161	1	6'	86	
~~Loc 161~~				
Loc	175	x	5434	
30	1	0	339	
31	1	0	232	
32	1	0	208	
33	1	0	206	243
34	1	0	239	
35	1	0	224	
36	1	0	234	
37	1	0	231	
38	1	0	256	
39	1	0	260	

SU 1

edit in product

QA QC 7x

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
Loc 222				
		x54	44	
8	2	0	114	
9	2	0	110	105
10	2	0	91	
11	2	2'	102	
12	2	2'	149	132
13	2	2'	146	
14	2	4'	76	
15	2	4'	92	86
16	2	4'	92	
17	2	6'	60	
18	2	6'	58	68
19	2	6'	87	
20	2	30"	34	39
21	2	30"	44	
22	2	30"	39	
23	2	2'	37	
24	2	2'	42	41
25	2	2'	43	
26	2	4'	39	
27	2	4'	22	37
28	2	4'	50	
x	x	x	x	
Loc	221	x	5444	
29	2	30"	183	146
30	2	30"	134	
31	2	30"	122	
x	x	x	x	
Loc	224	x	5434	
24	1	30"	160	
25	1	30"	317	232
26	1	30"	218	
x	x	x	x	
Loc	175	x	5444	
50	1	30"	187	
51	1	30	119	181
52	1	30	237	
53	2	30	345	
54	2	30"	332	331
55	2	30"	317	
~~2~~	~~2'~~	~~224~~		
~~2~~	~~2'~~	~~173~~		
~~56~~	~~3~~	~~30"~~	~~224~~	
~~3~~	~~3'~~	~~173~~		
		435		

SU 1

SU 3

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
Loc	221	x 54	20	
9	2	0	94	
10	2	0	15	83
11	2	0	21	
12	2	2'	57	
13	2	2'	50	52
14	2	2'	50	
15	2	4'	51	
16	2	4'	47	55
17	2	4'	69	
18	2	6'	60	
19	2	6'	60	69
~~20~~	~~2~~	~~6'~~	~~79~~	
Loc	161	x	5420	
36			65	
37			63	
	New Dirt			
Sump set				
	Grandkids			
x	x	x	x	
Loc	175	x	5420	
38	1	2'	155	151
39	1	2'	140	
40	1	2'	158	
x	x	x	x	
Loc	164	x	5420	
41	1	30"	213	274
42	1	30"	327	
43	1	30"	282	
44	2	30"	306	
45	2	30"	278	316
46	2	30	364	
Loc	175	x	5444	
56	3	30"	224	277
57	3	30"	173	
58	3	30"	435	
59	3	2'	276	287
60	3	2'	226	
61	3	2'	359	

SU 1

SU 4

SU 1

SU 3

Location ID _____ XRF Ser # _____

161 1 0 440 96 133 98

4/11

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
Loc ID	125	x	5420	
113	2	0	1400	1435
114	2	0	1838	
115	2	0	1068	
116	2	4'	1227	
117	2	4'	1404	1249
118	2	4'	1117	
119	2	8'	542	
120	2	8'	713 ~~785~~	722
121	2	8'	910	
122	4	0	1567	1567
123	4	6'	310	
124	4	6'	307	313
125	4	6'	332	
126	4	4'	323	
127	4	4'	299	302
128	4	4'	284	
129	3	30"	339	
130	3	30"	365	381
131	3	30"	439	
132	3	2'	743	
133	3	2'	617	591
134	3	2'	412	
135	3	4'	300	
136	3	4'	300	263
137	3	4'	188	

SU1

SU3

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
Loc ID	125	x	5434	
138	1	0	1710	1561
139	1	0	1975	
140	1	0	999	
141	1	4'	600	
142	1	4'	855	723
143	1	4'	714	
144	1	8'	354	
145	1	8'	327	362
146	1	8'	405	
147	1	2'	561	
148	1	2'	611	616
149	1	2'	677	
~~150~~	+	~~4'~~		

SU3

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
Loc ID	125	x	5444	
125	3	0	1468	1384
126	3	0	903	
127	3	0	1776	
128	3	4'	487	
129	3	4'	470	543
130	3	4'	673	
131	SU2	SU2	176	176
	↑3	↑30'		
132	3	8'	593	458
133	3	8'	284	
134	3	8'	497	

Location ID _____

XRF Ser #_____

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]

Location ID _____

XRF Ser #_____

4/10/12

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
Loc ID 135		X	5444	
SU 3 18	1	30"	79	61
19	1	30"	47	
20	1	30"	57	
21	4	30"	100	104
22	4	30"	91	
23	4	30"	111	
Loc 163		X	5444	
24	1	30"	74	82
25	1	30"	92	
26	1	30"	79	
27	1	2'	103	103
Loc ID 216		X5	434	
120	3	30"	436	564
SU3 121	3	30"	462	
122	3	30"	794	
123	3	2'	092	
124	3	2'	549	370
125	3	2'	468	
126	3	4'	511	
127	3	4'	395	448
128	3	4'	439	
129	3	6'	356	
130	3	6'	315	312
131	3	6'	264	

636 441 4554

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
Loc ID 135		X	5434	
SU 3 18	2	6'	246	no 30" 2', 4' avail 266
19	2	6'	230	
20	2	6'	322	
21	3	30"	87	
22	3	30"	120	103
23	3	30"	103	
Loc 163		X	5434	
24	2	30"	102	
25	2	30"	91	
26	2	30"	93	
27	2	30"	92	
Loc ID 119		X5	134	
SU 1 57	2	0	310	355.
58	2	0	298	
59	2	0	376	
60	2	2'	342	
61	2	2'	412	379
62	2	2'	382	
63	2	4'	327	
64	2	4'	466	389
65	2	4'	376	
66	2	6'	317	
67	2	6'	375	329
68	2	6'	294	
69	2	8'	375	
70	2	8'	417	436
71	2	8'	516	
72	2	10'	421	
73	2	10'	442	445
74	2	10	472	
Loc ID 216		X5	134	
111	1	30"	312	338
112	1	30"	408	
SU3 113	1	30"	293	
114	2	30"	704	580
115	2	30"	285	
116	2	30"	752	
117	2	2'	343	
118	2	2'	461	457
119	2	2'	567	

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
121	Loc ID		X 5420	
72	1	0	71	
73	void		~~183~~	118
74	1	0	183	
75	1	0	99	
76	1	2'	160	
77	1	2'	165	121
78	1	2'	37	
79	1	6'	231	
80	1	6'	222	185
81	1	6'	101	
82	2	0	84	
83	2	0	150	99
84	2	0	63	
85	2	4'	141	
86	2	4'	102	124
87	2	4'	129	
Loc 121		X	5420	new dist
88	SU2	SU2	203	225
89	SU2	SU2	247	
Loc ID 124		X	5444	
110	1	30"	188	176
111	1	30"	156	
SU 3 112	1	30"	185	
113	1	2'	121	131

Location ID _____

XRF Ser # _____

4-9-12

Loc ID	Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
300	9			43	
	10			41	
	11			33	39
	12			42	
	13			36	
Loc ID 110	12	1	30"	370	
	13			223	263
5434	14			196	
SU3	15		2'	179	
	16			270	242
	17			277	
Loc ID 117	19	2	0	1479	
	20			1354	1449
	21			1514	
	22		2'	1128	
	23			1453	1194
	24			1000	
	25		4'	676	
	26			860	826
	27			941	
	28		6'	695	
	29			609	
	30			823	
Loc ID 115	31		30"	250	
	32			270	283
SU3	33			328	
	34		2'	327	
Trans 2	35			243	284
	36			283	
	37		4'	240	
	38			243	241.5
	39				

Loc. ID 105 SU1

Run #					
87	5	0	797		
88		0	798		
89		0	835		
90		0	755		
91		0	820		807
92		0	807		
93		0	838		
94	side	0	1043		1005
95	side	0	1166		
96		2'	803		
97			706		765
98			786		
99		4'	927		
100			988		1010
101			1115		
102		6'	308		
143 ID 855					
		X 5434			
SU 1 87	2	0	360		472
88	2	0	496		
89	2	0	560		
90	2	2'	185		
91	2	2'	213		207
92	2	2'	223		
143 ID		X 5434			
SU 3 93	2	30"	434		
94	2	30"	383		381
95	2	30"	326		
96	2	2'	392		
97	2	2'	513		404
98	2	2'	307		
99	2	4'	218		
100	2	4'	208		259
101	2	4'	352		
143 ID		X 5434			
SU3 102	4	30"	030		
103	4	30"	199		157
104	4	30"	238		
105	4	30"	159		
106	4	2'	218		
107	4	2'	181		191
108	4	2'	175		
109	4	4'	188		188

Run #					
ID 143	X 6	125	266		
SU 3 113	1	30"	266		283
114	1	30"	319		
115	1	30"	261		
116	1	2'	217		
117	1	2'	257		243
118	1	2'	256		
Loc ID	154	X 5	444		
151	1	30"	335		
SU 3 152	1	30"	224		273
153	1	30"	321		
154	2	30"	173		
155	2	30"	172		178
156	2	30"	190		
157	3	30"	196		
158	3	30"	242		238
159	3	30"	271		
Loc ID	134	X 5	444		
160	1	30"	195		
161	1	30"	113		145
SU 3 162	1	30"	126		
163	2	30"	187		
164	2	30"	276		247
165	2	30"	277		
166	3	30"	072		
167	3	30"	077		84
168	3	30"	092		
	4	gravel			
Loc ID	148	X	5444		
169	1	30"	173		
170	1	30"	221		213
171	1	30"	247		
172	2	30"	654		
173	2	30"	390		650
174	2	30"	367		
175	2	30"	777		
176	2	30"	1061		

Location ID 300

XRF Ser # 5434

LOC 163 ↓

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
21	1	0	90	
22			89	~100
23			111	
24	T1	2'	100	
25			53	~75
26			65	
27	MIDPOINT	20"	100	
28	PLAY		86	
29			103	
30	AREA		233	150
31	SU4		266	
28	T4	30"	100	
29			113	~100
30			97	
31	PLAY		108	
32	AREA		71	
33	SU5		94	100
34			87	
35			81	
36	SU3/1	30"	201	
37			185	192
38			211	
39	SU3/2	30"	323	
40			167	214
41			152	
42	SU3/3	30"	611	
43			441	517
44			501	
45	3	2'	357	
46			468	407
47			396	
48	3	4'	329	
49			351	335
50			324	
51	SU3/1	30"	383	
52			~~582~~	408
53			290	
54	1	2'	239	
55			329	247
			172	

LOC ID 124 4-11-12 XRF 5420

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
102	SU4		1116	
103	PLAY	AREA	348	
104			905	
105			878	
106			247	
107		1153	~~1200~~	
108			332	
109			420	
110	SU2		237	
111	SU2		201	

LOC ID 217 4-11-12 XRF 5420

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
138	SU3	30"	224	
139	T1		190	217
140			238	
141		2'	156	
142			143	140
143			121	
144	SU3	Dirt	216	
145	Play	Area	237	
146	T4	30	182	
147			269	263
148			328	

LOC 176 XRF 5420

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
149	SU3	30"	224	
150	T2		229	208
151			171	
152	SU4	PLAY	496	
153		AREA	420	
154			462	
155			283	
156			331	
157			154	
5444	LBP	App		
Swing 144	BLUE	Plastic	Ø	
Set 145	Red	Plastic	Ø	
146	Lt Blu	Paint	Ø	
147	wht	Paint	Ø	
148	Dk Blue	Paint	Ø	

XRF 6424

LOC ID ~~12~~ 221 4-12-12

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
219	SU3	30"	96	
220	1		144	113
221			99	
224		2'	89	wrong list on XRF
225			124	
227			117	110
228		6'	159	
LOC ID 158				
XRF 5434			4-12-12	
43	SU4		68	
44	Play	Set	71	
45			82	
46			101	
LOC ID 180				
XRF 5434			4-12-12	
47	SU3	30	127	
48	T2		100	114
49			114	
50	T1	30	34	
51	T4	30	136	
			[illegible]	125
52			131	
53			109	
LOC ID 159				
XRF 5420				
69	1	0	743	
70	SU1		747	1073
71			1729	
72		2	237	
73			241	252
74			278	
	SU3			
6424 240	T2	30	232	
242			215	239
243			269	

Location ID _____ XRF Ser #_____

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]

Run #	[illegible]	[illegible]	[illegible]	[illegible]

Run #	[illegible]	[illegible]	[illegible]	[illegible]

Location ID _____

XRF Ser #_____

	Run #	Tran sect	Dist	[Pb]	Avg. [Pb]
5420	15	T1	0'	1073	
VW	16	⊥		560	
LOC	17	⊥		551	
ID	18	T1	2'	322	
	19	⊥		365	
135	20	⊥		249	
	Drip Zones on filter paper				
5420	32			61	
	33	Grapes		82	
VW	34	area		92	
	35			74	

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]

Location ID 135

XRF Ser #_____

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]

Run #	Tran sect	Dist	[Pb]	Avg. [Pb]

Location ID _____

XRF Ser #_____

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

In-Situ XRF Data

Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment		Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
9-Apr-12	1	54.45																																																				
9-Apr-12	1	22.82	wilder 5434	174	NA	1	1	8			218	9	<LOD	20	<LOD	63	210	11	<LOD	97	<LOD	302	<LOD	28	<LOD	12	7219	129	<LOD	20	<LOD	48	<LOD	124	<LOD	0	411	39	<LOD	9	36	2	<LOD	98	<LOD	4	<LOD	90	56	3	1762	328	211	4
9-Apr-12	1	58.64																																																				
9-Apr-12	2	19.71	stroh_5420		Blank						52.1	6.38	40	5.86	<LOD	79.31	91.93	13.84	939.77	98.64	<LOD	861.57	834.66	39.37	<LOD	16.08	13811.67	240.7	2427.89	55.82	<LOD	54.83	<LOD	205.98	<LOD	0	<LOD	133.88	<LOD	11.43	19.98	2.33	<LOD	129.48	<LOD	4.93	129.46	41.35	115.66	4.45	<LOD	766.76	83.06	4.06
9-Apr-12	2	47.43																																																				
9-Apr-12	2	19.49	jackson 5444		PES4315						284.33	11.43	2.94	7	57.3	23.71	833.79	23.65	67.12	46.88	ND		5.86	9.06	3.51	5.36	2555.29	81.11	113.66	11.91	62.94	18.18	-35.17	26.89	ND		548.86	47.86	0.51	3.31	11.72	1.87	-9.82	38.87	0.62	1.6	69.57	35.18	277.54	6.28	127.76	246.16	43.23	3.42
9-Apr-12	3	19.78	twellman_5420		2711						1109.19	27.28	115.31	20.01	<LOD	81.91	302.05	16.45	<LOD	223.11	1199.76	394.49	<LOD	51.61	<LOD	23.37	23874.21	369.66	66.14	12.05	<LOD	57.65	<LOD	284.65	<LOD	0	410.67	59.39	<LOD	12.66	112.65	4.8	<LOD	132.85	<LOD	7.75	<LOD	127.45	243.56	6.77	1668.06	374.15	230.33	6.34
9-Apr-12	3	22.9	wilder 5434	174	NA	1	1	8			260	10	<LOD	22	<LOD	64	253	12	<LOD	101	<LOD	346	<LOD	31	<LOD	13	8780	148	<LOD	20	<LOD	49	179	47	<LOD	0	665	48	<LOD	10	38	2	<LOD	100	<LOD	5	<LOD	91	68	3	2239	372	211	4
9-Apr-12	3	21.46	jackson 5444		NIST 2586						395.33	15.15	17.81	9.38	25.9	26.56	331.75	16.66	393.98	94.62	ND		75.32	23.54	0.23	5.65	48458.54	627.76	77.49	12.69	54.28	20.76	424.85	125.26	ND		584.15	72.67	2.19	4.06	43.7	3.07	-37.85	43.26	-2.86	1.77	65.21	39.31	79.16	3.89	5368.62	560.9	249.01	6.17
9-Apr-12	4	19.86	twellman_5420		2586						447.42	16.98	<LOD	37.45	<LOD	82.85	356.41	18.09	373.25	95.68	<LOD	1351.29	126.43	25.35	<LOD	17.73	48532.51	655.05	53.96	12.26	<LOD	58.71	<LOD	403.03	<LOD	0	636.7	76.9	<LOD	13.25	44.2	3.28	<LOD	136.21	<LOD	6.38	<LOD	129.78	80.09	4.1	4227.37	477.37	241.5	6.4
9-Apr-12	4	21.8	wilder 5434	174	NA	1	1	4			269	9	<LOD	20	<LOD	58	272	11	<LOD	93	<LOD	276	<LOD	28	<LOD	13	8752	134	<LOD	19	<LOD	45	149	42	<LOD	0	523	40	<LOD	9	36	2	<LOD	92	<LOD	4	<LOD	84	67	3	2390	319	238	4
9-Apr-12	4	20	jackson 5444		PES 5861						46.76	6.13	53.16	5.18	106.42	26.41	133.6	14.56	1143.08	103.24	ND		971.26	41.06	2.53	5.34	15657.94	256.61	3433.81	67.68	103.7	20.04	58.87	68.9	ND		143.37	47.4	10.28	3.73	27.06	2.46	67.42	43.48	10.5	2.23	156.27	39.06	111.14	4.3	840.77	321.25	50.03	3.52
9-Apr-12	5	19.97	twellman_5420		2586						275.25	11.75	<LOD	26.91	<LOD	72.28	858.28	25.14	<LOD	131.49	<LOD	740.72	<LOD	27.66	<LOD	17.26	2861.34	90.73	151.26	13.83	<LOD	50.46	<LOD	92.98	<LOD	0	476.07	46.3	<LOD	10.43	9.83	1.93	<LOD	116.66	<LOD	4.41	<LOD	112.88	295.05	6.73	<LOD	619.4	40.06	3.58
9-Apr-12	5	22.95	wilder 5434	174	NA	1	1	4			261	10	<LOD	22	<LOD	64	280	12	<LOD	99	<LOD	281	<LOD	30	<LOD	13	8153	142	<LOD	21	<LOD	50	<LOD	134	<LOD	0	383	39	<LOD	9	34	2	<LOD	100	<LOD	4	<LOD	92	64	3	2196	333	224	5
9-Apr-12	5	19.34	jackson 5444		nist2710						4965.51	78.16	573.33	37.04	66.61	27.92	6463.42	105.15	-58.01	84.62	ND		20.25	21.36	70.39	15.16	34368.76	517.95	2782.23	66.71	-156.66	21.84	-181.76	110.9	ND		8710.99	227.23	2.58	4.28	122.85	5.5	139.87	44.77	-8.34	4.62	23.64	40.17	279.92	7.82	3117.57	499.47	103.01	5.1
9-Apr-12	6	18.73	twellman_5420		2710						5379.43	87.25	597.74	49.12	<LOD	89.83	6789.81	114.91	<LOD	305.68	<LOD	1505.53	<LOD	71.74	65.88	16.89	36281.09	569.92	2890.53	71.57	<LOD	64.58	<LOD	380.41	<LOD	0	8866.2	241.62	15.49	4.76	118.42	5.77	<LOD	146.51	<LOD	16.26	<LOD	143.21	317.17	8.8	1451.18	451.84	118.96	5.75
9-Apr-12	6	23.98	wilder 5434	174	NA	1	1	4			309	11	<LOD	23	<LOD	64	349	13	<LOD	115	<LOD	345	<LOD	34	<LOD	15	11664	173	<LOD	21	<LOD	49	210	52	<LOD	0	773	50	13	3	48	2	<LOD	100	<LOD	4	<LOD	92	80	3	2748	382	302	5
9-Apr-12	6	20.25	jackson 5444		nist 2711						1144.1	26.88	125.61	16.24	62.76	26.56	333.61	16.72	189.59	74.63	ND		43.5	18.45	27.46	8.07	25076.97	371.04	120.45	14.12	7.08	20.32	209.1	90.38	ND		469.99	60.67	-8.38	3.91	122.48	4.8	88.08	42.59	-2.66	2.41	142.98	38.82	244.3	6.59	2601.19	426.78	250.77	6.35
9-Apr-12	7	19.22	twellman_5420		Blank						<LOD	9.29	<LOD	6.1	<LOD	65.42	<LOD	8.29	<LOD	109.95	<LOD	479.31	<LOD	19.41	<LOD	10.59	<LOD	43.99	<LOD	17.99	<LOD	45.19	<LOD	27.46	<LOD	0	<LOD	50.91	<LOD	9.25	<LOD	3.64	<LOD	104.55	<LOD	3.38	<LOD	100.94	<LOD	4.48	<LOD	431.94	<LOD	6.44
9-Apr-12	7	23.56	wilder 5434	174	NA	1	1	4			1435	29	<LOD	56	<LOD	73	618	21	<LOD	131	878	280	<LOD	41	30	8	10099	186	<LOD	25	<LOD	58	202	58	<LOD	0	718	58	<LOD	11	33	3	<LOD	116	<LOD	7	<LOD	108	75	4	33099	1195	236	5
9-Apr-12	7	20	jackson 5444		BLANK						-3.92	2.7	1.67	1.58	39.84	22.03	5.28	3.67	-22.47	32.05	ND		-6.55	6.21	-0.17	3.95	14.44	14.75	7.64	6.27	18.43	16.87	-10.86	9.34	ND		-19.59	16.74	2.86	3.09	0.52	1.24	-0.59	35.29	-0.44	1.1	53.34	32.3	0.94	1.49	-82.79	177.12	-4.11	2.14
9-Apr-12	8	19.65	twellman_5420		Blank						<LOD	9.57	<LOD	6.1	<LOD	68.14	<LOD	8.87	<LOD	106.81	<LOD	531.44	<LOD	19.12	<LOD	11.84	<LOD	48.3	<LOD	17.55	<LOD	47.16	<LOD	27.78	<LOD	0	<LOD	48.85	<LOD	9.33	<LOD	3.9	<LOD	109.03	<LOD	3.45	<LOD	104.49	<LOD	4.47	<LOD	494.1	<LOD	6.66
9-Apr-12	8	22.39	wilder 5434	174	NA	1	1	10			151	7	<LOD	15	<LOD	56	215	10	<LOD	89	<LOD	286	<LOD	25	<LOD	11	6781	115	<LOD	17	<LOD	43	<LOD	108	<LOD	0	377	35	9	3	30	2	<LOD	85	<LOD	3	<LOD	79	58	2	1543	300	165	4
9-Apr-12	8	19.59	jackson 5444		PES4315						262.1	11.05	21.79	7.08	5.33	24.07	831.99	23.75	33.98	47.26	ND		11.54	9.92	-5.76	4.76	2573.96	81.85	111.73	11.95	62.51	18.31	27.89	29.06	ND		529.83	47.71	1.72	3.34	11.36	1.87	45.82	39.43	-0.53	1.53	159.39	35.74	294.97	6.53	-408.76	256.72	37.5	3.4
9-Apr-12	9	18.87	twellman_5420	139	Blank	1	2	0			245.59	9.97	27.33	7.86	<LOD	62.65	186.9	10.53	<LOD	115.13	<LOD	742.03	<LOD	29.22	<LOD	10.71	8250.14	146.73	<LOD	21.09	<LOD	42.48	<LOD	137.69	<LOD	0	408.89	41.06	<LOD	9.31	20.14	1.97	<LOD	96.99	<LOD	4.05	<LOD	93.58	84.4	3.27	784.12	234.64	90.55	3.47
9-Apr-12	9	22.62	wilder 5434	174	NA	1	1	10			210	9	<LOD	18	<LOD	60	204	10	<LOD	102	<LOD	291	<LOD	28	<LOD	11	6610	119	<LOD	19	<LOD	47	133	39	<LOD	0	417	38	11	3	31	2	<LOD	93	<LOD	4	<LOD	86	57	3	1826	318	204	4
9-Apr-12	9	54.52																																																				
9-Apr-12	10	18.34	twellman_5420	139	Blank	1	2	0			244.71	10.75	<LOD	24.55	<LOD	70.92	234.85	12.65	<LOD	171.01	<LOD	867.65	<LOD	39.23	<LOD	13.96	17880.18	261.2	36.37	9.07	<LOD	48.66	<LOD	217.03	<LOD	0	392.31	48.22	<LOD	10.4	19.69	2.12	<LOD	114.63	<LOD	4.77	<LOD	109.72	71.36	3.31	1077.31	278.12	141.16	4.32
9-Apr-12	10	22.96	wilder 5434	174	NA	1	1	10			168	7	<LOD	15	<LOD	53	219	9	<LOD	83	<LOD	242	<LOD	23	<LOD	11	6536	104	<LOD	18	<LOD	41	<LOD	100	<LOD	0	337	31	10	3	32	2	<LOD	81	<LOD	3	<LOD	75	59	2	1313	258	194	4
9-Apr-12	10	19.36	embree 5444	139	BLANK		4	0			58.56	5.89	5.46	3.72	40.72	23.03	117.17	9.12	-43.06	46.4	ND		-0.26	11.35	-2.82	4.22	13505.33	212.9	31.21	8.49	-35.26	17.64	3.43	58.14	ND		367.65	45.13	-1.7	3.54	53.4	2.89	-14.2	37.71	0.08	1.41	114.33	34.03	94.38	3.68	1926.2	328.09	278.9	5.8
9-Apr-12	11	18.43	twellman_5420	139	Blank	1	2	0			345.83	12.46	<LOD	27.7	<LOD	67.88	341.48	14.8	<LOD	155.49	<LOD	802.15	<LOD	35.99	<LOD	14.13	12483.59	201.12	32.93	8.75	<LOD	47.01	<LOD	180.79	<LOD	0	461.31	47.36	<LOD	10.73	35.84	2.52	<LOD	109.27	<LOD	5.06	<LOD	104.78	111.24	3.91	1470.12	271.36	216.98	5.11
9-Apr-12	11	21.45	wilder 5434	174	NA	1	1	10			158	7	<LOD	15	<LOD	55	193	9	<LOD	84	<LOD	252	<LOD	23	<LOD	11	5738	98	<LOD	17	<LOD	42	<LOD	97	<LOD	0	412	33	<LOD	8	34	2	<LOD	85	<LOD	3	<LOD	79	57	2	1110	261	195	4
9-Apr-12	11	20.16	embree 5444	139	BLANK		4	0			36.84	5.35	8.09	3.48	78.77	24.81	123.74	9.76	69.78	51.77	ND		17.21	11.83	4.22	5	9854.28	181.95	23.71	8.48	52.94	18.95	-11.42	52.14	ND		244.83	41.24	-3.67	3.54	29.08	2.42	-39.42	41.24	2.06	1.57	122.06	37.25	91.06	3.79	1737.58	319.33	140.78	4.5
9-Apr-12	12	20.45	twellman_5420	139	Blank	1	2	2			226.64	11.05	<LOD	25.34	<LOD	72.45	213.35	12.85	<LOD	131.67	<LOD	867.14	<LOD	39.11	<LOD	12.91	10324.81	193.7	<LOD	25.74	<LOD	50.9	<LOD	170.66	<LOD	0	399.5	47.66	<LOD	11.38	31.13	2.6	<LOD	116.54	<LOD	4.95	<LOD	112.09	90.09	3.88	996.02	279.55	193.55	5.27
9-Apr-12	12	22.45	wilder 5434	174	NA	1	1	10			193	8	<LOD	17	<LOD	59	200	10	<LOD	90	<LOD	293	<LOD	25	<LOD	13	6933	119	<LOD	18	<LOD	45	128	35	<LOD	0	350	35	<LOD	9	32	2	<LOD	90	<LOD	3	<LOD	83	56	3	1668	311	183	4
9-Apr-12	12	19.26	embree 5444	139	BLANK		4	0			75.33	6.4	1.49	3.93	71.62	22.97	118	9.11	27.39	50.33	ND		14.12	12.54	1.91	4.57	13569.21	211.8	52.95	9.43	-35.12	17.5	118.02	59.4	ND		399.86	46.16	-1.62	3.48	50.78	2.82	63.57	37.22	1.18	1.48	161.02	33.88	102.7	3.79	2189.81	337.9	252.24	5.47
9-Apr-12	13	18.25	twellman_5420	139	Blank	1	2	2			236.69	10.15	<LOD	22.95	<LOD	65.95	232.06	12.03	<LOD	142.5	<LOD	739.08	<LOD	34.63	<LOD	13.65	11704.21	188.72	<LOD	22.86	<LOD	45.6	<LOD	167.55	<LOD	0	534.12	48.04	<LOD	10.54	41.05	2.57	<LOD	104.8	<LOD	4.33	<LOD	100.88	117.09	3.91	1458.08	256.29	252.01	5.36
9-Apr-12	13	23	wilder 5434	174	NA	3	2	30			815	19	<LOD	39	<LOD	67	674	20	<LOD	110	<LOD	356	<LOD	35	<LOD	14	12378	192	<LOD	24	<LOD	52	379	60	<LOD	0	699	52	<LOD	10	42	2	<LOD	104	<LOD	5	<LOD	96	63	3	2396	392	182	4
9-Apr-12	13	18.33	embree 5444	139	BLANK		4	2			117.92	6.96	8.24	4.42	64.29	20.34	142.24	8.98	-10.98	40.63	ND		5	9.74	2.63	4.21	8863.92	147.6	28.5	7.42	-171.02	15.37	49.85	44.1	ND		337.33	38.33	-0.31	3.14	38.1	2.31	-31.12	32.24	1.41	1.37	111.73	29.43	89.33	3.26	1050.43	261.65	195.47	4.45
9-Apr-12	14	18.6	twellman_5420	139	Blank	1	2	2			387.39	13.26	<LOD	28.86	<LOD	67.06	285.56	13.67	<LOD	156.79	<LOD	900.5	<LOD	39.43	<LOD	13.47	13546.65	213.37	41.91	9.25	<LOD	47.15	<LOD	188.34	<LOD	0	494.4	49.17	<LOD	10.91	43.7	2.72	<LOD	107.48	<LOD	5.36	<LOD	104.2	118.83	4.06	1385.17	288.84	280.21	5.81
9-Apr-12	14	22.54	wilder 5434	174	NA	3	2	30			712	17	<LOD	34	<LOD	64	599	18	<LOD	105	<LOD	317	<LOD	30	<LOD	15	10676	165	<LOD	21	<LOD	49	181	50	<LOD	0	343	38	<LOD	9	34	2	<LOD	100	<LOD	5	<LOD	92	79	3	2311	356	182	4
9-Apr-12	14	19.74	embree 5444	139	BLANK		4	2			141.83	7.94	7.02	4.99	59.27	21.21	164.43	10.09	-42.27	42.03	ND		-6.24	10.23	-3.58	4	9907.47	167.04	19.97	7.46	-155.39	16.32	108.66	49.84	ND		375.51	42.09	-1.5	3.32	42.78	2.55	18.86	33.91	0.73	1.42	100.77	30.49	91.11	3.47	983.52	277.88	207.4	4.83
9-Apr-12	15	17.96	twellman_5420	139	Blank	1	2	2			232.6	10.26	<LOD	23.5	<LOD	67.78	288.38	13.57	<LOD	161.38	<LOD	897.19	<LOD	37.97	<LOD	12.7	14063.41	216.67	<LOD	24.16	<LOD	46.96	<LOD	186.87	<LOD	0	573.8	51.35	<LOD	10.85	46.65	2.75	<LOD	109.66	<LOD	4.55	<LOD	105.53	114.12	3.94	1583.42	292.38	282.63	5.77
9-Apr-12	15	24.91	wilder 5434	174	NA	3	2	30			666	18	<LOD	36	<LOD	69	437	16	<LOD	117	<LOD	346	<LOD	34	<LOD	15	9528	168	<LOD	22	<LOD	54	217	53	<LOD	0	367	42	12	3	35	2	<LOD	108	<LOD	6	<LOD	99	59	3	1976	377	170	4
9-Apr-12	15	20.67	embree 5444	139	BLANK		4	4			103.46	7.27	16.83	4.84	48.94	22.31	166.58	10.64	-7.93	44.32	ND		11.41	11.04	5.27	4.87	8806.02	162.93	11.31	7.4	-152.25	17.17	37.78	48.4	ND		357.74	43	4.56	3.51	32.6	2.42	65.02	35.86	-2.41	1.2	123.66	32.35	79.92	3.45	1477.14	295.6	167.7	4.62
9-Apr-12	16	18.37	twellman_5420	139	Blank	1	2	2			292.53	11.23	<LOD	24.69	<LOD	65.02	315.52	13.91	<LOD	159.33	<LOD	750.43	<LOD	32.95	<LOD	14.34	10534.4	176.45	<LOD	22.83	<LOD	45.71	<LOD	160.18	<LOD	0	524.67	47.75	<LOD	10.74	44.6	2.66	<LOD	104.42	<LOD	4.9	<LOD	100.76	102.57	3.69	1539.19	260.16	294.43	5.78
9-Apr-12	16	22.32	wilder 5434	174	NA	3	2	2			304	10	<LOD	22	<LOD	60	403	14	<LOD	102	<LOD	324	<LOD	28	<LOD	11	9414	145	<LOD	19	<LOD	46	151	45	<LOD	0	534	42	<LOD	9	38	2	<LOD	92	<LOD	4	<LOD	85	65	3	1461	328	197	4
9-Apr-12	16	20.46	embree 5444	139	BLANK		4	2			183.48	9.52	19.02	6.16	73.81	22.65	267.62	13.52	14.74	50.17	ND		14.88	12.93	-0.57	4.7	13545.02	218.56	34.19	8.95	-109.49	17.72	107.93	61.13	ND		393.86	47.23	12.71	3.72	42.12	2.72	46.2	36.48	1.05	1.61	106.53	32.77	150.78	4.67	2783.13	354.88	227.72	5.44
9-Apr-12	17	19.94	twellman_5420	139	Blank	1	2	4			340.98	13.56	<LOD	30.54	<LOD	75.7	293.55	15.08	<LOD	162.91	<LOD	931.97	<LOD	42.12	<LOD	15.76	13346.62	230.72	<LOD	27.54	<LOD	52.07	<LOD	198.54	<LOD	0	527.45	54.37	<LOD	11.88	42.38	2.94	<LOD	122.73	<LOD	5.12	<LOD	117.32	98.88	4.08	1850.56	318.27	238.06	5.85
9-Apr-12	17	23.98	wilder 5434	174	NA	3	2	2			236	10	<LOD	20	<LOD	64	151	9	<LOD	108	<LOD	337	<LOD	33	<LOD	13	13147	188	<LOD	21	<LOD	49	216	55	<LOD	0	532	44	<LOD	9	36	2	<LOD	103	<LOD	4	<LOD	94	60	3	2416	371	245	5
9-Apr-12	17	20.61	embree 5444	139	BLANK		4	2			153.69	8.74	12.32	5.59	61.71	22.66	287.52	13.93	43.77	51.37	ND		22.99	12.58	2.1	4.84	11620.57	196.79	23.94	8.37	-107.38	17.65	54.69	56	ND		339.09	44.59	5.44	3.61	41.67	2.69	-39.72	36.22	-0.45	1.45	64.73	32.69	100.53	3.86	1976.04	340	204.21	5.11
9-Apr-12	18	18.12	twellman_5420	139	Blank	1	2	4			249.65	10.14	<LOD	23.29	<LOD	62.91	231.16	11.7	<LOD	135.32	<LOD	749.55	<LOD	31.89	<LOD	13.62	10102.66	167.53	<LOD	21.21	<LOD	43.63	<LOD	154.49	<LOD	0	425.93	43.02	<LOD	10.29	39.55	2.47	<LOD	100.55	<LOD	4.03	<LOD	95.98	101.4	3.58	946.33	241.47	249.99	5.2
9-Apr-12	18	22.45	wilder 5434	174	NA	3	2	2			379	12	<LOD	25	<LOD	63	278	12	<LOD	101	<LOD	299	<LOD	29	<LOD	13	7942	135	<LOD	20	<LOD	49	227	44	<LOD	0	468	40	<LOD	9	38	2	<LOD	99	<LOD	4	<LOD	91	64	3	2149	336	245	5
9-Apr-12	18	20.02	embree 5444	139	BLANK		4	6			110.52	6.93	8.98	4.42	54.43	20.19	192.9	10.51	-35.11	38.91	ND		-11.67	8.82	-1.98	3.94	8381.28	146.27	6.23	6.4	-224.18	15.5	46.1	43.96	ND		357.57	39.48	8.32	3.27	32.54	2.23	29.42	31.11	1.75	1.4	97.85	28.38	68.67	3	947.67	253.4	166.63	4.25
9-Apr-12	19	19.23	twellman_5420	139	Blank	1	2	4			248.05	10.65	<LOD	24.13	<LOD	67.02	239.87	12.56	<LOD	155.06	<LOD	755.44	<LOD	33.75	<LOD	13.3	10119.07	176.68	<LOD	24.43	<LOD	46.62	<LOD	164.16	<LOD	0	318.67	41.83	<LOD	10.82	37.43	2.55	<LOD	106.04	<LOD	4.23	<LOD	102.54	87.32	3.54	846.2	244.9	234.79	5.3
9-Apr-12	19	22.16	wilder 5434	174	NA	3	2	4			297	10	<LOD	21	<LOD	58	236	10	<LOD	91	<LOD	289	<LOD	27	<LOD	11	7688	124	<LOD	17	<LOD	45	128	40	<LOD	0	413	36	9	3	44	2	<LOD	89	<LOD	4	<LOD	82	60	3	1455	302	194	4
9-Apr-12	19	20.84	embree 5444	139	BLANK		4	2			154.08	8.96	22.79	5.93	74.15	23.38	271	13.83	15.74	51.23	ND		10.37	12.57	-1.4	4.68	14425.83	232.35	27.39	8.73	-110.53	18.04	14.13	62.63	ND		583.51	54.46	-0.52	3.64	36.98	2.63	-0.65	36.81	1.2	1.62	36.14	33.43	118.57	4.25	3183.89	370.84	211.3	5.32
9-Apr-12	20	20.38	twellman_5420	139	Blank	1	2	6			228.02	11.39	<LOD	26.24	<LOD	74.7	297.28	15.41	<LOD	169.2	1158.47	360.27	<LOD	45.49	<LOD	14.9	15905.5	264.05	<LOD	26.81	<LOD	53.02	<LOD	219.3	<LOD	0	630.98	59.77	<LOD	12.51	54.71	3.29	<LOD	116.77	<LOD	5.02	<LOD	114.28	130	4.69	1806.96	348.11	276.37	6.42
9-Apr-12	20	21.98	wilder 5434	174	NA	3	2	4			181	8	<LOD	17	<LOD	58	252	11	<LOD	92	<LOD	286	<LOD	24	<LOD	12	6093	107	<LOD	18	<LOD	45	147	36	<LOD	0	230	30	<LOD	9	30	2	<LOD	90	<LOD	4	<LOD	82	52	2	880	282	187	4
9-Apr-12	20	20.22	embree 5444	139	BLANK		4	2			109.77	7.17	9.48	4.59	71.67	21.29	177.61	10.52	24.6	43.39	ND		-6.6	9.65	-3.06	4.04	8013.42	147.78	0.44	6.4	-154.4	16.47	80.43	45.39	ND		211.47	35.6	4.31	3.37	30.11	2.26	-28.79	33.67	-0.86	1.27	20.15	30.91	81.1	3.34	1719.39	285.45	172.89	4.5
9-Apr-12	21	20.52	twellman_5420	139	Blank	1	2	6			161.5	9.96	<LOD	23.34	<LOD	77.93	246.27	14.41	<LOD	169.57	<LOD	989.66	<LOD	41.26	<LOD	18.49	12208.66	226.23	<LOD	27.44	<LOD	54.4	<LOD	199.81	<LOD	0	583.94	58.06	12.82	4.2	37.74	2.92	<LOD	127.95	<LOD	4.94	<LOD	120.74	133.06	4.84	<LOD	922.82	203.83	5.7
9-Apr-12	21	22.93	wilder 5434	174	NA	3	2	4			377	12	<LOD	26	<LOD	66	285	13	<LOD	117	<LOD	314	<LOD	30	<LOD	15	10064	164	29	8	<LOD	51	<LOD	151	<LOD	0	415	42	<LOD	10	44	2	<LOD	104	<LOD	5	<LOD	94	71	3	1460	334	202	4
9-Apr-12	21	21.78	embree 5444	139	BLANK		4	8			90.86	7.12	8.31	4.56	38.98	22.54	162.74	10.86	48.61	48.79	ND		-0.02	10.66	-9.08	3.71	8431.57	163.83	13.57	7.7	-181.89	17.6	54.47	49.28	ND		178.13	37.11	3.55	3.61	36.12	2.59	19.05	35.45	-2.67	1.17	33.06	32.07	68.56	3.35	1159.03	292.72	150.44	4.57
9-Apr-12	22	20.52	twellman_5420	139	Blank	1	2	6			223.78	11.06	<LOD	25.73	<LOD	73.68	211.65	12.89	<LOD	163.99	<LOD	869.99	<LOD	36.25	<LOD	13.22	10203.72	193.97	<LOD	24.54	<LOD	51.4	<LOD	176.23	<LOD	0	604.47	55.69	<LOD	12.02	33.57	2.68	<LOD	119.53	<LOD	4.65	<LOD	114.78	81.64	3.75	1289.34	289.65	202.14	5.4
9-Apr-12	22	21.94	wilder 5434	174	NA	3	2	6			228	9	<LOD	19	<LOD	60	210	10	<LOD	102	<LOD	317	<LOD	30	<LOD	13	9887	148	<LOD	19	<LOD	46	194	46	<LOD	0	464	39	<LOD	9	42	2	<LOD	95	<LOD	4	<LOD	88	71	3	1962	337	247	4
9-Apr-12	22	20.2	embree 5444	139	BLANK		4	2			129.59	8.15	20.75	5.43	48.12	23.18	160.96	10.68	-34.67	48.69	ND		-2.37	11.84	2.26	4.82	14131.74	224.52	22.37	8.27	-61.56	17.93	49.72	61.38	ND		309.28	44.4	0.77	3.62	45.79	2.8	-44.74	37.16	-0.75	1.44	69.93	33.71	119.01	4.17	2325.34	354.87	245.98	5.6
9-Apr-12	23	19.06	twellman_5420	139	Blank	1	2	8			153.76	8.51	<LOD	19.33	<LOD	66.91	150.46	10.07	<LOD	150.12	<LOD	766.19	<LOD	32.86	<LOD	13.13	10352.45	177.48	<LOD	23.97	<LOD	46.01	<LOD	160.84	<LOD	0	345.21	42.34	<LOD	10.78	39.79	2.58	<LOD	105.89	<LOD	4.53	<LOD	101.39	84.26	3.45	1453.93	262.91	269.45	5.61
9-Apr-12	23	21.64	wilder 5434	174	NA	3	2	6			172	7	<LOD	16	<LOD	55	216	9	<LOD	88	<LOD	256	<LOD	27	<LOD	11	7957	121	<LOD	16	<LOD	43	125	38	<LOD	0	462	36	<LOD	8	33	2	<LOD	85	<LOD	4	<LOD	79	57	2	1825	285	193	4
9-Apr-12	23	22.59	embree 5444	139	BLANK		4	2			120.5	8.78	4.58	5.48	15.1	25.34	172.37	12.23	50.3	55.08	ND		-0.4	12.05	-8.79	4.22	9880.7	198.53	11.22	8.5	-149.23	19.59	35.36	57.66	ND		213.77	43.32	-0.12	3.97	33.15	2.76	-10.07	40.44	-2.99	1.31	58.92	36.64	72.48	3.76	1575.46	343.17	182.14	5.43
9-Apr-12	24	19.01	twellman_5420	139	Blank	1	2	8			164.31	8.96	<LOD	21.06	<LOD	68.7	191.66	11.5	<LOD	155.01	<LOD	814.11	<LOD	35.2	<LOD	14.23	11576.49	195.5	<LOD	24.58	<LOD	47.67	<LOD	179.42	<LOD	0	524.7	49.95	<LOD	11.24	41.5	2.69	<LOD	109.36	<LOD	3.88	<LOD	105.79	87.36	3.6	1843.64	285.34	354.46	6.64
9-Apr-12	24	21.83	wilder 5434	174	NA	3	2	6			184	8	<LOD	16	<LOD	57	227	10	<LOD	89	<LOD	292	<LOD	26	<LOD	13	7717	123	<LOD	17	<LOD	44	183	40	<LOD	0	357	34	<LOD	8	35	2	<LOD	88	<LOD	4	<LOD	81	63	3	1325	298	197	4
9-Apr-12	24	20.42	embree 5444	139	BLANK		4	2			129.95	7.86	10.24	5.02	58.33	21.94	246.81	12.54	15.84	46.12	ND		4.37	11.18	-2.31	4.27	10485.65	178.44	24.63	7.98	-179.27	16.73	101.96	52.52	ND		204.8	37.38	-2.46	3.39	33.77	2.41	19.9	35.01	-1.85	1.25	135.19	31.34	90.27	3.57	1325.02	288.32	178.53	4.67
9-Apr-12	25	19.63	twellman_5420	139	Blank	1	2	8			268.97	11.47	<LOD	26.2	<LOD	69.63	145.64	10.39	<LOD	165.18	<LOD	857.96	<LOD	35.46	<LOD	14.39	10010.96	181.76	<LOD	25.38	<LOD	48.42	<LOD	163.67	<LOD	0	448.32	48.05	<LOD	11.33	35.86	2.61	<LOD	110.62	<LOD	5.04	<LOD	107.05	85.46	3.63	1057.14	274.45	266.91	5.84
9-Apr-12	25	24.04	wilder 5434	103	NA	1	1	0			929	26	<LOD	51	<LOD	88	801	28	<LOD	177	<LOD	549	<LOD	53	<LOD	22	28411	439	113	15	<LOD	70	465	108	<LOD	0	432	62	20	4	23	3	<LOD	143	<LOD	8	<LOD	132	322	8	<LOD	1570	124	5
9-Apr-12	25	20.33	embree 5444	139	BLANK	3	2	30			144.84	8.61	14.02	5.56	47.57	23.41	215.6	12.3	8.13	49.84	ND		20.44	12.45	3.42	5	10767.68	189.31	22.09	8.41	-46.7	18.16	38.46	54.46	ND		352.75	45.21	-1.83	3.63	36.99	2.6	69.32	38.77	-1.18	1.43	130.54	34.69	106.89	4.01	2200.63	352.99	256.55	5.75
9-Apr-12	26	17.67	twellman_5420	139	Blank	1	2	10			109.69	6.69	<LOD	15.13	<LOD	59.78	101.14	7.72	<LOD	126.26	<LOD	627.21	<LOD	26.14	<LOD	9.67	5775.09	113.88	<LOD	18.09	<LOD	41.21	<LOD	111.19	<LOD	0	203.79	31.62	<LOD	9.57	30.93	2.14	<LOD	94.15	<LOD	3.51	<LOD	90.33	58.44	2.71	646.63	203.78	205.26	4.47
9-Apr-12	26	23.84	wilder 5434	103	NA	1	1	0			862	25	<LOD	50	<LOD	90	887	30	347	85	<LOD	563	<LOD	73	<LOD	23	48321	680	146	17	77	24	453	139	<LOD	0	453	72	66	5	15	2	<LOD	146	<LOD	7	<LOD	136	334	8	1925	582	126	5
9-Apr-12	26	18.29	embree 5444	139	BLANK	3	2	30			95.96	6.09	1.68	3.77	79.91	19.3	132.95	8.35	12.39	37.29	ND		4.6	8.6	-2.45	3.61	6113.08	113.49	14.78	6.38	-181.17	14.7	36.7	35.72	ND		188.58	30.36	1.1	2.98	23.49	1.87	-59.64	30.55	-2.62	0.98	86.34	27.69	59.09	2.65	1065.62	234.45	148.99	3.8
9-Apr-12	27	18.72	twellman_5420	139	Blank	1	2	10			166.39	8.66	<LOD	19.83	<LOD	65.53	121.81	9.04	<LOD	126.31	<LOD	745.34	<LOD	31.17	<LOD	11.92	9217.48	162.54	<LOD	21.77	<LOD	44.96	<LOD	150.48	<LOD	0	368.14	41.63	<LOD	10.74	41.3	2.57	<LOD	104.41	<LOD	4.43	<LOD	99.76	75.96	3.26	1281.31	252.19	278.54	5.61
9-Apr-12	27	23.84	wilder 5434	103	NA	1	1	0			463	17	<LOD	35	<LOD	84	900	28	<LOD	139	<LOD	411	<LOD	43	<LOD	17	14384	257	227	18	118	23	<LOD	221	<LOD	0	484	56	<LOD	12	22	2	<LOD	137	<LOD	6	<LOD	126	268	7	<LOD	1248	105	5
9-Apr-12	27	20.05	embree 5444	139	BLANK	3	2	30			158.66	8.79	18.07	5.72	29.19	22.71	236.6	12.56	-1.22	49.02	ND		13.66	11.93	1.33	4.75	13124.17	210.87	14.59	7.82	-64.83	17.67	-29.7	57.39	ND		399.39	46.62	8.1	3.65	48.2	2.81	-0.25	36.53	0.82	1.56	66.85	33.66	93.8	3.71	2372.7	346.37	258.24	5.63
9-Apr-12	28	18.8	twellman_5420	139	Blank	1	2	10			145.74	8.34	<LOD	18.66	<LOD	67.03	107.75	8.78	<LOD	138.88	<LOD	782.31	<LOD	34.52	<LOD	11.99	9676.78	171.04	<LOD	23.44	<LOD	46.74	<LOD	158.51	<LOD	0	317.27	41.07	<LOD	11.07	43.03	2.66	<LOD	107.78	<LOD	3.86	<LOD	103.34	73.96	3.29	1683.28	272.5	279.99	5.74
9-Apr-12	28	24.1	wilder 5434	103	NA	1	1	0			962	26	<LOD	53	<LOD	87	724	26	<LOD	173	<LOD	507	<LOD	59	<LOD	21	24554	392	130	16	<LOD	69	<LOD	291	<LOD	0	363	58	21	4	21	3	<LOD	141	<LOD	8	<LOD	130	303	8	1719	519	124	5
9-Apr-12	28	2.93	embree 5444	139	BLANK	3	2	2			157.76	21.16	31.75	14.44	90.75	53.98	195.5	27.96	-49.44	112.04	ND		4.31	27.58	12.14	13.31	10492.29	441.04	41.7	21.86	-35.68	43.03	64.69	128.71	ND		297.22	101.89	-4.36	8.5	34.9	6.03	-102.13	89.69	-1.74	3.34	207.8	81.38	98.47	9.17	2463.57	892.19	252.82	13.5
9-Apr-12	29	20.15	twellman_5420	139	Blank	2	2	55			125.92	8.75	<LOD	19.93	<LOD	76.2	95.07	9.27	<LOD	172.47	<LOD	934.96	<LOD	39.88	<LOD	14.94	11691.06	213.95	<LOD	26.44	<LOD	52.86	<LOD	189.93	<LOD	0	374.23	49.17	<LOD	12.99	46.99	3.07	<LOD	123.95	<LOD	5.23	<LOD	118.98	90.4	3.97	1315.64	304.61	398.16	7.72
9-Apr-12	29	23.76	wilder 5434	103	NA	1	1	0			1030	26	<LOD	52	<LOD	84	635	23	<LOD	163	<LOD	518	<LOD	57	<LOD	20	25753	386	126	15	<LOD	65	331	97	<LOD	0	499	60	<LOD	12	21	2	<LOD	133	<LOD	7	<LOD	122	227	6	<LOD	1531	122	5
9-Apr-12	29	19.05	embree 5444	139	BLANK	3	2	30			185.93	8.93	4.45	5.54	104.57	21.85	228.92	11.73	-55.2	42.06	ND		17.08	11.01	-3.94	4.1	10386.34	171.56	26.96	7.93	-85.51	16.63	-14.96	48.89	ND		360.32	41.77	-1.52	3.35	37.04	2.41	68.71	34.83	0.82	1.48	174.53	31.22	98.08	3.58	2013.35	317.89	246.64	5.22
9-Apr-12	30	18.48	twellman_5420	139	Blank	2	3	8			167.74	8.77	<LOD	19.17	<LOD	65.85	181.66	10.84	<LOD	134.73	<LOD	812.25	<LOD	35.32	<LOD	12.59	10387.64	176.29	<LOD	22.51	<LOD	46.19	<LOD	161.86	<LOD	0	348.5	41.89	<LOD	10.56	35.59	2.46	<LOD	106.62	<LOD	4.76	<LOD	102.37	83.73	3.41	1285.44	266.43	243.31	5.29
9-Apr-12	30	23.13	wilder 5434	103	NA	1	1	2			779	19	<LOD	39	<LOD	68	578	19	<LOD	121	<LOD	371	<LOD	41	<LOD	16	14505	219	119	12	<LOD	54	343	65	<LOD	0	330	43	14	3	20	2	<LOD	107	<LOD	6	<LOD	99	137	4	<LOD	1103	139	4
9-Apr-12	30	19.56	embree 5444	139	BLANK	3	2	30			163.76	8.64	4.1	5.37	97.89	22.47	223.64	11.91	37.42	48.56	ND		12.37	10.74	-3.41	4.23	9577.99	167.06	34.37	8.46	-79.25	17.1	-39.78	47.8	ND		260.28	39.37	2.55	3.47	41.41	2.58	-36.97	36.49	-0.96	1.38	145.17	32.99	80.81	3.38	1529.78	318.38	236.35	5.23
9-Apr-12	31	18.78	twellman_5420	139	Blank	2	3	8			151.26	8.26	<LOD	18.92	<LOD	64.72	185.28	10.79	<LOD	135.63	<LOD	704.23	<LOD	31.54	<LOD	12.1	9613.44	166.01	<LOD	20.72	<LOD	44.96	<LOD	152.65	<LOD	0	283.4	38.68	<LOD	10.47	31.09	2.31	<LOD	100.94	<LOD	4.17	<LOD	97.63	77.5	3.26	1436.33	248.34	237	5.16
9-Apr-12	31	23.59	wilder 5434	103	NA	1	1	2			790	21	<LOD	43	<LOD	75	588	21	<LOD	138	<LOD	417	<LOD	40	<LOD	20	16840	263	101	13	<LOD	59	222	73	<LOD	0	313	46	26	4	21	2	<LOD	119	<LOD	6	<LOD	110	151	5	1522	426	111	4
9-Apr-12	31	19.49	embree 5444	139	BLANK	3	2	4			180.65	9.23	10.91	5.84	81.09	22.93	303.93	14.03	130.03	54.01	ND		9	11.99	9.22	5.33	12223.79	199.3	9.2	7.56	-59.49	17.53	54.71	56.35	ND		433.75	47.4	-0.12	3.62	49.44	2.82	70.44	37.24	0.46	1.56	137.23	33.91	98.45	3.76	3200.11	350.83	334.15	6.37
9-Apr-12	32	53.97																																																				
9-Apr-12	32	23.99	wilder 5434	103	NA	1	1	2			944	26	<LOD	52	<LOD	86	660	24	<LOD	195	<LOD	530	<LOD	60	<LOD	21	29712	446	82	14	<LOD	67	530	109	<LOD	0	465	63	<LOD	12	17	2	<LOD	137	<LOD	7	<LOD	125	188	6	1919	540	129	5
9-Apr-12	32	20.23	embree 5444	139	BLANK	3	2	30			146.03	8.25	6.41	5.18	71.94	21.86	192.09	11.13	53.85	47.74	ND		7.05	10.29	-1.38	4.32	8531.38	156.3	23.43	7.89	-158.79	16.78	-17.27	45.8	ND		297.49	40.24	-5.49	3.39	40.17	2.56	-45.31	35.45	-0.7	1.36	122.16	32.01	76.12	3.31	1879.1	315.31	217.74	5.06
9-Apr-12	33	19.35	stroh_5420	174	NA	1	4	0			149.88	9.38	<LOD	21.61	<LOD	77.54	213.74	13.09	<LOD	183.47	<LOD	981.09	47.53	15.44	<LOD	14.87	16672.76	270.19	<LOD	28.12	<LOD	53.87	<LOD	218.39	<LOD	0	966.27	69.4	<LOD	12.44	68.68	3.57	<LOD	124.89	<LOD	4.62	<LOD	120.52	164.16	5.19	2048.47	334.23	415.2	7.93
9-Apr-12	33	23.74	wilder 5434	103	NA	1	1	4			507	17	<LOD	35	<LOD	78	468	19	<LOD	161	<LOD	456	<LOD	43	<LOD	16	18644	291	34	10	<LOD	62	<LOD	234	<LOD	0	530	56	<LOD	12	43	3	<LOD	126	<LOD	5	<LOD	116	116	4	4209	533	272	6
9-Apr-12	33	20.27	embree 5444	139	BLANK	3	2	30			135.84	8.07	6.68	5.09	65.86	22.63	191.86	11.27	-3.22	45.68	ND		5.24	10.73	5.04	4.88	9943.3	174.22	12.61	7.49	-141.55	17.09	-9.25	50.01	ND		353.72	43.16	-4.9	3.46	37.48	2.52	7.03	36.61	-4.26	1.09	182.56	33.25	77.73	3.39	1403.2	297.34	236.9	5.33
9-Apr-12	34	19.86	stroh_5420	174	NA	1	4	0			132.9	9.15	<LOD	20.48	<LOD	79.06	185.49	12.58	<LOD	203.74	<LOD	1088.77	<LOD	47.53	<LOD	14.25	17218.59	282.98	<LOD	29.32	<LOD	54.86	<LOD	231.17	<LOD	0	621.19	61.45	<LOD	12.85	57.85	3.42	<LOD	129.28	<LOD	5.09	<LOD	124.76	194.52	5.79	1949.68	356.08	359.27	7.53
9-Apr-12	34	44.81																																																				
9-Apr-12	34	20.51	embree 5444	174	BLANK	1	2	0			157.1	9.02	10.39	5.73	47.19	23.77	224.56	12.66	38.5	51.85	ND		31.71	12.74	-2.99	4.56	11299.87	197.36	21.15	8.5	-60.52	18.29	-69.52	54.49	ND		365.5	46.4	-2.54	3.69	44.21	2.81	7.21	38.82	-0.86	1.48	169.33	35.28	94.48	3.84	1938.62	339.99	274.63	6
9-Apr-12	35	19.75	stroh_5420	174	NA	1	4	2			187.64	10.38	<LOD	23.5	<LOD	76.3	242.89	13.93	<LOD	187.24	<LOD	1025.65	<LOD	40.98	<LOD	16.55	16770.46	271.76	29.6	9.64	<LOD	53.58	<LOD	215.59	<LOD	0	647.2	60.45	<LOD	12.56	67.7	3.56	<LOD	122.14	<LOD	5.07	<LOD	118.88	158.2	5.12	2334.29	350.17	407.42	7.86
9-Apr-12	35	23.55	wilder 5434	103	NA	1	1	4			515	17	<LOD	35	<LOD	76	510	19	<LOD	139	<LOD	428	<LOD	44	<LOD	16	17265	269	55	11	<LOD	60	397	76	<LOD	0	634	57	<LOD	12	46	3	<LOD	122	<LOD	6	<LOD	113	118	4	2688	468	293	6
9-Apr-12	35	57.26																																																				
9-Apr-12	36	19.37	stroh_5420	174	NA	1	4	0			160.99	9.63	<LOD	21.46	<LOD	77.88	247.24	13.92	<LOD	183.03	<LOD	1002.36	<LOD	41.65	<LOD	13.53	14335.25	242.71	<LOD	25.54	<LOD	53.14	<LOD	208.59	<LOD	0	525.79	55.45	<LOD	12.57	69.84	3.58	<LOD	124.5	<LOD	4.72	<LOD	120.53	121.09	4.48	1192.64	314.56	377.9	7.45
9-Apr-12	36	23.52	wilder 5434	103	NA	1	1	4			605	17	<LOD	36	<LOD	73	558	19	<LOD	131	<LOD	395	<LOD	42	<LOD	15	17240	259	60	11	<LOD	57	432	74	<LOD	0	583	54	<LOD	11	41	3	<LOD	115	<LOD	6	<LOD	106	103	4	1910	418	161	4
9-Apr-12	36	20.26	embree 5444	174	BLANK	1	2	0			385.74	14.95	7.32	9.1	82.48	25.96	319.66	16.3	446.04	93.29	ND		56.78	21.99	15.29	6.64	45473.92	593.13	62.03	11.84	-19.82	20.22	300.05	120.13	ND		690.33	74.15	-2.84	3.96	44.9	3.09	45.96	41.9	2.72	2.11	151.74	38.46	81.23	3.92	4804.91	514.49	234.96	5.98
9-Apr-12	37	57.29																																																				
9-Apr-12	37	25.04	wilder 5434	103	NA	1	1	6			474	15	<LOD	33	<LOD	72	511	19	<LOD	123	<LOD	383	<LOD	43	<LOD	16	17771	265	73	11	<LOD	57	364	74	<LOD	0	456	50	13	4	38	3	<LOD	117	<LOD	6	<LOD	108	107	4	3708	463	219	5
9-Apr-12	37	19.64	embree 5444	174	BLANK	1	2	0			240.26	10.41	15.46	6.59	55.96	22.58	254.51	12.77	20.95	48.97	ND		18.18	11.93	16.56	5.74	11412.38	188.75	15.51	7.75	-107.2	17.13	25.24	53.56	ND		536.33	49.67	1.15	3.53	45.71	2.71	17.63	35.92	-0.18	1.54	83.69	32.88	99.28	3.73	2032.58	331.86	278.67	5.74
9-Apr-12	38	19.38	stroh_5420	174	NA	1	4	2			147	9.14	<LOD	20.91	<LOD	74.99	229.33	13.28	<LOD	182.06	<LOD	1001.99	<LOD	41.17	<LOD	16.33	15439.82	251.62	<LOD	26.6	<LOD	52.01	<LOD	203.97	<LOD	0	502.25	54.31	<LOD	12.07	66.17	3.45	<LOD	122.84	<LOD	4.83	<LOD	117.99	128.21	4.54	1331.75	317.01	390.36	7.49
9-Apr-12	38	24.76	wilder 5434	103	NA	1	1	6			417	15	<LOD	30	<LOD	77	337	15	<LOD	147	<LOD	457	<LOD	43	<LOD	18	17059	263	32	10	<LOD	60	292	74	<LOD	0	334	47	13	4	42	3	<LOD	126	<LOD	6	<LOD	116	121	4	3368	502	373	7
9-Apr-12	38	20.75	embree 5444	174	BLANK	1	2	0			201.91	9.95	1.78	6.12	32.58	23.2	198.96	11.8	89.71	51.28	ND		-9.56	10.41	-6.55	4.15	8549.12	163.51	0.93	7.03	-100.03	17.86	80.79	49.72	ND		252.29	40.38	-5.89	3.56	41.12	2.7	66.26	37.59	-3.73	1.23	59.78	33.77	89.71	3.71	1705.72	310.44	230.5	5.45
9-Apr-12	39	18.94	stroh_5420	174	NA	1	4	2			80.25	5.97	<LOD	13.51	<LOD	60.02	148.41	9.12	<LOD	124.14	<LOD	654.29	<LOD	31.4	<LOD	11.65	9862.49	157.05	<LOD	20.49	<LOD	41.64	<LOD	141.33	<LOD	0	224.15	33.98	<LOD	9.88	42.86	2.4	<LOD	93.28	<LOD	4.01	<LOD	90.36	66.22	2.85	1372.74	229.61	218.98	4.62
9-Apr-12	39	23.84	wilder 5434	103	NA	1	1	6			368	14	<LOD	30	<LOD	79	349	16	<LOD	142	<LOD	440	<LOD	43	<LOD	15	13889	238	42	11	<LOD	61	<LOD	205	<LOD	0	435	51	16	4	46	3	<LOD	126	<LOD	6	<LOD	116	109	4	3047	490	250	6
9-Apr-12	39	19.14	embree 5444	174	BLANK	1	2	0			189.93	9.24	4.3	5.73	55.53	22.41	249.88	12.55	52.67	48.44	ND		0.48	10.59	-6.44	4.04	9740.68	169.18	19.02	7.76	-75.67	17.13	29.35	49.49	ND		332.84	42.06	3.49	3.52	44.06	2.65	-17.86	36.53	-3	1.26	190.54	32.91	98.87	3.69	1808.87	309.9	274.19	5.65
9-Apr-12	40	15.24	stroh_5420	174	NA	1	4	4			123.64	10.23	<LOD	23.31	<LOD	88.74	193.8	14.79	<LOD	226.4	<LOD	1180.42	<LOD	54.16	<LOD	19.44	17662.28	331.87	<LOD	33.66	<LOD	62.43	<LOD	276.44	<LOD	0	572.49	68.94	<LOD	14.69	63.91	4.09	<LOD	139.37	<LOD	5.91	<LOD	138.32	161.85	6.09	1584.52	384.4	372.76	8.81
9-Apr-12	40	23.26	wilder 5434	103	NA	1	1	8			539	17	<LOD	35	<LOD	76	520	19	<LOD	155	<LOD	465	<LOD	46	<LOD	17	18440	278	83	12	<LOD	59	<LOD	223	<LOD	0	982	67	<LOD	12	50	3	<LOD	120	<LOD	5	<LOD	112	120	4	3512	511	334	6
9-Apr-12	40	19.86	embree 5444	174	BLANK	1	2	2			253.23	10.46	16.78	6.63	5.81	21.69	276.16	13.02	38.21	47.35	ND		-7.6	9.84	-5.06	4.15	9420.27	164.13	13.96	7.34	-144.1	16.62	27.63	48.16	ND		509.31	47.23	-7.8	3.34	38.77	2.5	42.01	34.51	-2.37	1.34	138.5	31.52	79.08	3.32	1429.57	299.96	239.88	5.23
9-Apr-12	41	17.87	stroh_5420	174	NA	1	4	2			59.31	5.36	<LOD	11.53	<LOD	59.9	118.1	8.29	<LOD	129.57	<LOD	634.39	<LOD	29.71	<LOD	11.57	8186.96	140.81	<LOD	18.04	<LOD	41.5	<LOD	129.92	<LOD	0	153.95	30.9	<LOD	9.54	31.62	2.16	<LOD	93.73	<LOD	3.71	<LOD	89.24	53.07	2.63	628.42	205.97	170.84	4.15
9-Apr-12	41	24.7	wilder 5434	103	NA	1	1	8			774	20	<LOD	41	<LOD	76	829	24	<LOD	136	<LOD	436	<LOD	47	<LOD	18	20222	292	137	14	<LOD	59	<LOD	232	<LOD	0	544	54	<LOD	11	42	3	<LOD	121	<LOD	6	<LOD	112	148	5	2795	473	250	6
9-Apr-12	41	19.77	embree 5444	174	BLANK	1	2	2			243.43	10.35	20.28	6.64	49.5	22.21	268.57	12.98	-1.53	43.93	ND		4.66	10.9	0.77	4.64	8502.44	155.31	25.36	8.03	-108.21	16.94	110.6	47.82	ND		432.85	44.59	-4.37	3.41	41.92	2.59	52.45	35.75	-2.37	1.35	115.94	32.26	71.6	3.22	1860.49	302.47	239.82	5.27
9-Apr-12	42	18.73	stroh_5420	174	NA	1	4	2			148.83	8.38	<LOD	18.61	<LOD	66.1	227.91	12.09	<LOD	146.46	<LOD	837.53	38.44	12.54	<LOD	12.75	13189.35	207.09	<LOD	22.28	<LOD	45.98	<LOD	172.82	<LOD	0	485.19	47.81	<LOD	10.64	49.72	2.8	<LOD	104.56	<LOD	4.44	<LOD	99.72	89.73	3.53	1874.42	287.41	263.82	5.54
9-Apr-12	42	23.04	wilder 5434	103	NA	1	1	8			440	14	<LOD	30	<LOD	71	305	14	<LOD	133	<LOD	358	<LOD	38	<LOD	14	13991	215	33	9	<LOD	54	263	63	<LOD	0	540	49	<LOD	10	33	2	<LOD	114	<LOD	5	<LOD	104	104	4	1791	383	245	5
9-Apr-12	42	19.21	embree 5444	174	BLANK	1	2	2			309.59	11.28	6.75	6.94	21.67	21.42	300.05	13.26	-18.29	41.95	ND		-3.96	9.96	-0.12	4.48	8931.81	155.26	13.34	7.19	-112.61	16.38	60.32	46.57	ND		490.54	45.19	-1.62	3.34	40.3	2.48	-77.9	34.27	-1.11	1.44	90.99	31.23	82.65	3.31	1694.55	287.57	258.72	5.31
9-Apr-12	43	18.92	stroh_5420	174	NA	1	4	6			76.43	6.5	<LOD	14.95	<LOD	67.87	187.15	11.19	<LOD	154.82	<LOD	853.38	<LOD	35.41	<LOD	12.17	11430.1	191.2	<LOD	21.71	<LOD	46.8	<LOD	169.97	<LOD	0	381.71	44.67	<LOD	10.64	43.68	2.69	<LOD	107.64	<LOD	4.26	<LOD	104.16	93.98	3.65	1015.44	269.75	242.86	5.4
9-Apr-12	43	22.96	wilder 5434	103	NA	1	1	8			356	13	<LOD	26	<LOD	69	340	14	<LOD	128	<LOD	354	<LOD	35	<LOD	11	13667	208	42	9	<LOD	54	260	61	<LOD	0	349	42	<LOD	10	29	2	<LOD	111	<LOD	5	<LOD	101	108	4	1800	378	238	5
9-Apr-12	43	20.67	embree 5444	174	BLANK	1	2	4			263.36	11.15	9.8	6.94	-11.01	22.43	242.62	12.82	-17.29	46.2	ND		6.01	10.98	-2.88	4.49	8850.78	165.15	27.37	8.43	-162.82	17.32	30.18	48.97	ND		484.79	48.21	1.54	3.6	41.27	2.68	19.05	36.5	-1.31	1.48	150.21	32.77	68.46	3.28	1006.14	301.81	236.49	5.42
9-Apr-12	44	19.86	stroh_5420	174	NA	1	4	2			115.43	8.32	<LOD	18.1	<LOD	74.37	195.95	12.49	<LOD	170.73	<LOD	894.54	<LOD	40.32	<LOD	16.26	13067.05	227.8	<LOD	25.96	<LOD	52.26	<LOD	195.13	<LOD	0	641.39	58.13	<LOD	12.28	57.74	3.29	<LOD	121.28	<LOD	4.12	<LOD	116.47	104.05	4.17	1345.71	296.94	323.19	6.82
9-Apr-12	44	22.85	wilder 5434	103	NA	1	1	8			312	11	<LOD	24	<LOD	66	376	14	<LOD	116	<LOD	333	<LOD	35	<LOD	14	9368	157	29	8	<LOD	51	<LOD	144	<LOD	0	423	42	12	3	30	2	<LOD	104	<LOD	5	<LOD	95	81	3	2063	363	230	5
9-Apr-12	44	11.31	embree 5444	174	BLANK	1	2	4			265.79	15.05	3.79	9.24	24.63	30.89	249.71	17.47	51.09	64.21	ND		-2.62	13.23	-5.31	5.76	7638.18	202.68	39.58	12	-147.3	23.34	-18.47	60.3	ND		430.16	61.66	4.56	4.83	38.67	3.51	-25.97	49.92	-0.36	2.07	141.86	44.55	59.97	4.19	1215.95	382.48	212.79	6.93
9-Apr-12	45	21.59	stroh_5420	103	NA	1	2	0			1825.54	38.62	<LOD	76.24	<LOD	87.12	907.6	30.14	<LOD	234.79	<LOD	1196.22	72.41	20.92	<LOD	23.7	30250.46	462.73	196.73	18.07	73.51	20.33	<LOD	323.42	<LOD	0	306.63	60.84	<LOD	12.79	27.56	3.07	<LOD	145.27	<LOD	9.62	<LOD	139.62	221.09	6.75	1422.82	378.98	124.31	5.26
9-Apr-12	45	23.16	wilder 5434	103	NA	3	1	0			602	17	<LOD	35	<LOD	69	500	18	<LOD	124	<LOD	385	<LOD	40	<LOD	15	16181	237	57	10	<LOD	55	<LOD	198	<LOD	0	321	43	<LOD	10	36	2	<LOD	110	<LOD	6	<LOD	101	99	4	2672	425	204	5
9-Apr-12	45	19.03	embree 5444	174	BLANK	1	2	4			230.32	9.55	8.89	5.97	77.36	20.73	275.98	12.43	-46.94	38.36	ND		11.98	10.6	-1.34	4.19	8042.71	141.98	11.23	6.89	-168.71	15.72	120.55	44.38	ND		341.34	38.84	2.77	3.28	40.17	2.41	12.06	32.95	-1.65	1.3	92.91	29.99	64.43	2.92	1487.66	272.16	237.16	4.95
9-Apr-12	46	19.98	stroh_5420	103	NA	1	2	0			1189.18	27.33	<LOD	56.34	<LOD	77.81	705.54	24.25	<LOD	196.21	<LOD	932.75	<LOD	50.01	<LOD	19.56	19450.44	306.89	177.53	15.85	<LOD	53.73	<LOD	243.82	<LOD	0	382.16	53.83	<LOD	11.76	22.59	2.58	<LOD	126.35	<LOD	7.23	<LOD	120	163.57	5.32	1042.25	301.28	106.58	4.5
9-Apr-12	46	23.4	wilder 5434	103	NA	3	1	30			424	14	<LOD	31	<LOD	74	407	16	<LOD	135	<LOD	387	<LOD	39	<LOD	15	16072	245	<LOD	27	<LOD	57	258	69	<LOD	0	326	45	<LOD	11	45	3	<LOD	116	<LOD	5	<LOD	107	105	4	3411	454	237	5
9-Apr-12	46	2.02	embree 5444	174	BLANK	1	2	6			118.54	23.31	24.67	15.9	1.78	65.82	122.23	28.19	-87.24	104.17	ND		20.33	32.78	-0.58	13.21	6576.27	414.23	16.21	22.95	-239.02	50.54	-5.36	126.42	ND		305.41	119.52	-24.59	9.89	38.38	7.76	134.72	107.66	-1.48	3.92	52.59	95.33	42.68	8.26	170.31	594.02	223.65	15.79
9-Apr-12	47	20.74	stroh_5420	103	NA	1	2	0			833.03	21.49	<LOD	46.06	<LOD	75.56	619.18	21.77	<LOD	185.65	<LOD	876.79	50.59	16.37	<LOD	16.68	19769.03	299.2	94.07	12.43	<LOD	52.14	<LOD	236.52	<LOD	0	278.4	48.2	<LOD	11.18	36.6	2.82	<LOD	123.75	<LOD	6.44	<LOD	119.65	122.6	4.47	1369.6	295.79	173.43	5.08
9-Apr-12	47	22.79	wilder 5434	103	NA	3	1	30			510	15	<LOD	30	<LOD	67	429	16	<LOD	128	<LOD	367	<LOD	37	<LOD	16	15228	217	40	9	<LOD	52	431	64	<LOD	0	293	40	10	3	41	2	<LOD	104	<LOD	5	<LOD	96	93	3	2917	410	209	5
9-Apr-12	47	20.44	embree 5444	174	BLANK	1	2	6			218	9.89	14.31	6.28	49.9	22.17	220.62	11.88	-23.55	42.16	ND		10.7	10.68	-5.57	4.08	8088.13	151.71	8.13	7.15	-154.07	16.83	27.36	45.6	ND		427.22	44.35	4.36	3.5	36.72	2.48	30.62	35.06	-2.5	1.3	63.96	31.75	63.09	3.08	1386.05	283.52	220.17	5.09
9-Apr-12	48	19.33	stroh_5420	103	NA	1	2	2			682.33	19.28	<LOD	42.14	<LOD	75.63	533.15	20.21	<LOD	172.27	<LOD	926.01	56.95	16.11	<LOD	15.59	18863.16	289.72	108.2	12.96	<LOD	52.11	<LOD	228.59	<LOD	0	294.94	48.26	<LOD	11.7	38.93	2.87	<LOD	122.52	<LOD	6.13	<LOD	117.76	125.86	4.52	1251.22	301.56	203.65	5.44
9-Apr-12	48	23.27	wilder 5434	103	NA	3	1	30			364	13	<LOD	28	<LOD	74	328	15	<LOD	128	<LOD	406	<LOD	38	<LOD	15	15138	235	34	10	<LOD	58	315	68	<LOD	0	308	44	<LOD	11	51	3	<LOD	119	<LOD	5	<LOD	110	95	4	2743	447	251	5
9-Apr-12	48	19.74	embree 5444	174	BLANK	1	2	6			178.07	8.69	13.68	5.56	57.24	21.18	237.36	11.85	-13.16	41.28	ND		-7.62	9.4	-1.97	4.18	7518.74	139.74	4.92	6.62	-169.58	16.13	75.16	43.39	ND		311.08	38.65	5.52	3.38	38.32	2.42	-4.52	34.01	-1.27	1.31	101.78	30.74	64.07	2.99	1326.73	277.52	221.05	4.91
9-Apr-12	49	18.72	stroh_5420	103	NA	1	2	0			467.46	14.66	<LOD	32.38	<LOD	68.69	395.5	16.14	<LOD	168.18	<LOD	855.16	<LOD	38.83	<LOD	15.39	16551.3	245.2	97.08	11.45	<LOD	47.35	<LOD	203.79	<LOD	0	317.84	44.88	<LOD	10.74	46.7	2.81	<LOD	108.94	<LOD	5.52	<LOD	104.44	108.96	3.92	914.43	269.38	208	5.07
9-Apr-12	49	22.97	wilder 5434	103	NA	3	1	0			353	13	<LOD	27	<LOD	74	328	15	<LOD	137	<LOD	435	<LOD	44	<LOD	18	20096	282	46	10	<LOD	57	<LOD	224	<LOD	0	367	47	15	4	65	3	<LOD	118	<LOD	4	<LOD	109	117	4	3881	493	308	6
9-Apr-12	49	21.65	embree 5444	174	BLANK	1	2	8			196.32	10.17	7.91	6.36	50.96	23.86	206.21	12.39	-18.1	44.91	ND		3.35	10.9	-5.49	4.37	8144.91	164.06	5.85	7.6	-142.48	18.24	-6.1	48.58	ND		340.72	44.38	0.51	3.75	43.36	2.84	-45.48	38.13	0.2	1.59	99.98	34.35	63.93	3.34	2211.68	327.27	229.6	5.6
9-Apr-12	50	20.6	stroh_5420	103	NA	1	2	0			566.83	17.62	<LOD	39	<LOD	76.5	538.62	20.47	<LOD	189.23	<LOD	1023.3	<LOD	49.07	<LOD	16.55	22333.24	329.74	105.43	12.94	<LOD	53.19	<LOD	252.36	<LOD	0	322.19	51.43	<LOD	12.22	56.56	3.32	<LOD	124.42	<LOD	6.04	<LOD	118.89	153.04	5	1886.66	339.1	285.79	6.46
9-Apr-12	50	22.79	wilder 5434	103	NA	3	1	0			670	17	<LOD	36	<LOD	68	583	19	<LOD	142	<LOD	391	<LOD	40	<LOD	16	17605	245	58	10	<LOD	54	261	68	<LOD	0	291	42	15	3	39	2	<LOD	108	<LOD	6	<LOD	100	111	4	2631	424	213	5
9-Apr-12	50	18.91	embree 5444	174	BLANK	1	2	8			239.23	9.8	15.81	6.22	31.74	21.01	264.7	12.28	1.19	41.76	ND		17.89	10.29	-2.94	4.12	8539.32	148.51	16.97	7.23	-175.3	15.82	-39.05	43.2	ND		462.69	43.43	-1.87	3.26	36.71	2.35	7.17	33.99	-0.82	1.38	115.96	30.93	68.97	3.02	1567	276.14	239.13	5.01
9-Apr-12	51	20.63	stroh_5420	103	NA	1	2	4			400.43	14.43	<LOD	31.92	<LOD	75.18	314.81	15.37	<LOD	178.38	<LOD	929.08	62.73	16.27	<LOD	17.05	19123.91	289.05	69.39	11.32	<LOD	51.86	<LOD	228.09	<LOD	0	306.53	48.33	<LOD	12.06	63.51	3.38	<LOD	121.49	<LOD	5.3	<LOD	118.12	111.11	4.22	2144.5	324.2	312.15	6.57
9-Apr-12	51	24.55	wilder 5434	103	NA	3	1	2			424	14	<LOD	29	<LOD	70	431	16	<LOD	124	<LOD	379	<LOD	38	<LOD	16	15508	228	48	10	<LOD	54	<LOD	189	<LOD	0	420	45	<LOD	10	44	3	<LOD	112	<LOD	5	<LOD	103	97	4	2526	415	224	5
9-Apr-12	51	19.94	embree 5444	174	BLANK	1	2	8			189.74	9.26	10.74	5.84	31.26	21.99	211.12	11.58	30.11	45.6	ND		7.87	10.39	-4.77	4.09	9128.33	162.57	14.62	7.45	-143.88	16.78	-33.01	46.9	ND		449.15	45.39	-9.5	3.36	45.33	2.67	-6.67	35.12	1.16	1.54	114.6	32	68.39	3.17	1536.27	285.42	244.07	5.32
9-Apr-12	52	19.92	stroh_5420	103	NA	1	2	4			493.61	15.12	<LOD	33.59	<LOD	69.11	368.2	15.62	<LOD	169.41	<LOD	897.49	67.65	15.4	<LOD	15.16	17960.28	260.15	82.82	11.15	<LOD	47.78	<LOD	208.78	<LOD	0	325.29	45.81	<LOD	11.18	51.17	2.92	<LOD	110.91	<LOD	5.67	<LOD	106.81	101.01	3.81	1372.67	290.2	258.63	5.61
9-Apr-12	52	23.48	wilder 5434	103	NA	3	1	2			470	16	<LOD	33	<LOD	75	454	18	<LOD	141	<LOD	460	<LOD	41	<LOD	18	18828	282	56	11	<LOD	59	315	77	<LOD	0	525	54	13	4	59	3	<LOD	118	<LOD	5	<LOD	109	115	4	3833	515	283	6
9-Apr-12	52	20.37	embree 5444	174	BLANK	3	3	2			250.34	10.78	11.56	6.75	-19.13	22.72	260.14	13.09	-4.08	45.77	ND		0.08	10.83	-1.93	4.53	8549.88	159.71	19.33	7.93	-137.39	17.24	92.56	48.79	ND		430.15	45.72	-3.65	3.52	44.53	2.72	-52.59	36.51	1.89	1.68	113.15	33.04	65.79	3.2	1708.03	316.34	252	5.52
9-Apr-12	53	19.08	stroh_5420	103	NA	1	2	4			523.78	16.32	<LOD	35.58	<LOD	71.9	410.55	17.25	<LOD	188.9	<LOD	884.59	<LOD	42.87	<LOD	13.96	18423.06	277.69	82.21	11.54	<LOD	50.13	<LOD	220.27	<LOD	0	411.88	51.28	<LOD	11.3	47.32	2.98	<LOD	117.95	<LOD	5.38	<LOD	113.47	103.35	4.03	1447.5	295.61	261.67	5.92
9-Apr-12	53	23.3	wilder 5434	103	NA	3	1	2			542	17	<LOD	34	<LOD	74	498	18	<LOD	136	<LOD	446	<LOD	40	<LOD	16	17364	261	42	10	<LOD	58	<LOD	214	<LOD	0	415	49	<LOD	11	50	3	<LOD	119	<LOD	5	<LOD	109	99	4	2331	463	250	5
9-Apr-12	53	20.39	embree 5444	174	BLANK	3	3	2			226.33	10.46	7.21	6.51	53.85	23.57	267.58	13.52	40.36	50.23	ND		6.1	11.38	4.73	5.14	9825.12	177.57	11.99	7.77	-90.85	17.83	34.04	51.84	ND		446.61	47.87	-4.38	3.59	46.74	2.82	-26.17	38.09	-1.79	1.44	140.44	34.57	66.23	3.27	1642.58	321.62	257.5	5.69
9-Apr-12	54	19.97	stroh_5420	103	NA	1	2	6			309.76	12.13	<LOD	27	<LOD	71.88	230.38	12.61	<LOD	169.61	<LOD	864.54	<LOD	41.64	<LOD	15.32	16329.4	246.83	30.6	9.01	<LOD	49.17	<LOD	202.86	<LOD	0	337.3	46.1	<LOD	11.23	63.76	3.21	<LOD	115.18	<LOD	5.15	<LOD	110.67	93.52	3.73	1583.47	290.41	301.84	6.14

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

In-Situ XRF Data

Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment		Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
9-Apr-12	54	22.53	stroh 5434	301	NA				sunset		92	6	<LOD	14	<LOD	64	58	6	<LOD	106	<LOD	341	<LOD	30	<LOD	13	9065	148	<LOD	20	<LOD	49	218	47	<LOD	0	377	39	10	3	45	2	<LOD	100	<LOD	4	<LOD	93	84	3	1804	355	250	5
9-Apr-12	54	21.77	embree 5444	174	BLANK	3	3	2			226.13	11.33	-1.05	6.89	-23.92	25.2	172.38	11.96	-69.33	45.89	ND		-0.25	11.29	-5.96	4.56	8601.07	177.45	22.61	8.99	-109.78	19.28	-15.44	51.88	ND		521.23	53.54	-1.67	3.93	39.68	2.88	17.87	40.39	-2.71	1.46	123.94	36.68	60.97	3.44	1461.24	335.98	253.38	6.13
9-Apr-12	55	19.82	stroh_5420	103	NA	1	2	6			409.32	13.41	<LOD	30.01	<LOD	66.92	343.91	14.74	<LOD	157.96	<LOD	819.85	<LOD	39.05	<LOD	14.23	16477.87	239.55	59.47	9.87	<LOD	46.46	<LOD	196.33	<LOD	0	308.61	43.4	<LOD	10.77	51.6	2.85	<LOD	107.01	<LOD	4.74	<LOD	103.67	93.3	3.59	1480.65	274.87	243.62	5.32
9-Apr-12	55	23.83	wilder 5434	301	NA				sunset		74	6	<LOD	12	<LOD	62	51	6	<LOD	99	<LOD	312	<LOD	28	<LOD	12	8810	140	<LOD	20	<LOD	47	158	44	<LOD	0	403	38	9	3	47	2	<LOD	98	<LOD	4	<LOD	90	77	3	1808	332	254	5
9-Apr-12	55	21.96	embree 5444	174	BLANK	3	3	4			200.99	10.63	8.83	6.66	77.94	24.84	218.16	13.17	-97.04	42.04	ND		-5.27	11.18	1.63	5.19	7692.63	163.91	8.74	8.07	-119.66	19.04	82.3	50.73	ND		314.52	44.55	-3.38	3.83	40.2	2.86	-9.5	40.45	-1.86	1.49	129.34	36.21	58.72	3.35	1665.21	335.98	214.12	5.6
9-Apr-12	56	20.86	stroh_5420	103	NA	1	2	6			397.23	14.27	<LOD	32.31	<LOD	73.05	308.04	15.09	<LOD	189.69	<LOD	953.45	<LOD	45.62	<LOD	16.46	19622.67	292.32	60.69	10.77	<LOD	51.33	<LOD	233.34	<LOD	0	352.05	50.09	<LOD	11.83	63.08	3.35	<LOD	119.14	<LOD	5.32	<LOD	113.8	110	4.18	2035.19	324.93	306.6	6.46
9-Apr-12	56	22.3	Sushmita_5434	301	NA				sunset pk		63	5	<LOD	12	<LOD	61	48	6	<LOD	100	<LOD	301	<LOD	28	<LOD	11	8582	138	<LOD	19	<LOD	47	163	44	<LOD	0	199	31	<LOD	9	45	2	<LOD	96	<LOD	4	<LOD	87	78	3	1668	321	216	4
9-Apr-12	56	20.35	embree 5444	174	BLANK	3	3	4			262.73	11.3	1.34	6.9	69.56	23.29	301.2	14.42	-42.79	45.6	ND		0.84	10.79	0.28	4.88	9924.65	179.77	38.63	9.17	-109.09	17.84	-43.09	51.09	ND		520.46	50.36	-1.88	3.66	49.45	2.91	1.54	37.85	0.22	1.63	175.94	34.52	75.67	3.47	1806.11	328.18	283.28	6.01
9-Apr-12	57	20.02	stroh_5420	103	NA	1	2	8			134.17	8.15	<LOD	18.75	<LOD	70.15	126.36	9.47	<LOD	162.02	<LOD	891.32	<LOD	41.18	<LOD	14.25	15859.86	237.75	<LOD	24.21	<LOD	48.35	<LOD	196.26	<LOD	0	262.07	42.45	<LOD	11.13	65.5	3.18	<LOD	114.03	<LOD	4.2	<LOD	107.95	99.83	3.76	1679.1	295.56	314.66	6.17
9-Apr-12	57	23.51	wilder 5434	301	NA						70	5	<LOD	12	<LOD	60	50	6	<LOD	98	<LOD	307	<LOD	28	<LOD	12	9087	139	<LOD	20	<LOD	46	<LOD	128	<LOD	0	306	34	<LOD	9	50	2	<LOD	95	<LOD	4	<LOD	88	87	3	1830	326	254	4
9-Apr-12	57	18.66	embree 5444	174	BLANK	3	3	4			193.65	8.66	4.93	5.38	87.11	20.66	323.88	13.2	18.8	40.97	ND		8.94	9.63	0.67	4.25	7365.68	132.38	2.11	6.26	-159.64	15.5	22.82	40.4	ND		288.7	36.35	-3.65	3.15	37.09	2.3	-37.48	33.02	-2.06	1.21	60.79	29.86	61.1	2.81	1577.85	269.81	225.76	4.75
9-Apr-12	58	19.68	stroh_5420	103	NA	1	2	8			333.53	12.83	<LOD	29.35	<LOD	70.44	282.76	14.19	<LOD	165.8	<LOD	832.74	<LOD	41.88	<LOD	14.23	14768.3	235.41	51.64	10.13	<LOD	48.42	<LOD	197.71	<LOD	0	241.52	42.72	<LOD	10.81	48.62	2.94	<LOD	111.78	<LOD	5.37	<LOD	107.55	84.51	3.65	<LOD	779.86	214.09	5.3
9-Apr-12	58	22.16	stroh 5434	301	NA				sunset pk		58	5	<LOD	11	<LOD	61	43	5	<LOD	97	<LOD	298	<LOD	29	<LOD	11	8158	132	<LOD	18	<LOD	47	264	44	<LOD	0	249	32	<LOD	9	48	2	<LOD	95	<LOD	4	<LOD	88	78	3	2258	333	237	4
9-Apr-12	58	19.89	embree 5444	174	BLANK	3	3	6			185.58	9.06	11.21	5.74	56.22	21.89	277.63	13.06	-75.35	39.45	ND		12.65	10.42	-4.78	4.11	7847.94	146.67	19.44	7.65	-128.31	16.7	-12.11	43.63	ND		399.28	42.68	-2.8	3.39	36.56	2.44	31.11	35.03	-0.68	1.39	129.09	31.7	54.32	2.87	1139.86	287.41	239.09	5.2
9-Apr-12	59	56.01																																																						
9-Apr-12	59	22.12	stroh 5434	301	NA				sunset pk		69	6	<LOD	12	<LOD	62	47	6	<LOD	83	<LOD	288	<LOD	28	<LOD	10	7022	122	<LOD	17	<LOD	48	195	41	<LOD	0	233	31	<LOD	9	43	2	<LOD	98	<LOD	3	<LOD	91	78	3	1613	311	222	4
9-Apr-12	59	19.98	embree 5444	174	BLANK	3	3	6			132.14	8.09	1.67	4.99	72.06	22.98	179.11	11.03	71.31	51.47	ND		26.37	12.17	-5.12	4.14	10355.94	180.6	7.45	7.43	-96.51	17.5	-6.13	51.61	ND		386.52	45.38	-1.79	3.59	45.99	2.75	-30.38	37.29	-1.35	1.37	166.37	33.98	65.69	3.2	1688.86	320.84	289.57	5.94
9-Apr-12	60	20.86	stroh_5420	103	NA	1	2	8			271.06	11.4	<LOD	25.43	<LOD	70.54	161.24	10.78	<LOD	154	<LOD	841.34	<LOD	36.91	<LOD	13.86	13122.27	214.07	36.49	9.19	<LOD	48.82	<LOD	187.13	<LOD	0	274.59	42.43	<LOD	11.02	48.92	2.9	<LOD	112.9	<LOD	4.65	<LOD	108.17	75.31	3.42	796.98	263.98	259.1	5.69
9-Apr-12	60	22.49	stroh 5434	302	NA				billy porter pk		53	5	<LOD	11	<LOD	63	31	5	<LOD	103	<LOD	352	<LOD	31	<LOD	11	10559	163	<LOD	19	<LOD	49	<LOD	147	<LOD	0	490	42	<LOD	10	51	2	<LOD	100	<LOD	4	<LOD	91	78	3	2255	374	303	5
9-Apr-12	60	20.46	embree 5444	174	BLANK	3	3	6			187.28	9.66	1.84	5.93	26.6	23.81	142.63	10.19	27.44	51.17	ND		20.05	12.4	3.95	5.02	10758.05	189.06	3.02	7.39	-57.37	18.09	24.96	54.16	ND		639.6	54.64	-4.17	3.66	46.67	2.83	-34.1	39.29	1.39	1.66	105.51	35.38	78.32	3.51	1960.54	343.97	307.91	6.27
9-Apr-12	61	18.18	stroh_5420	103	NA	3	2	30			446.51	14.21	<LOD	31.14	<LOD	69.71	296.07	13.87	<LOD	162.67	<LOD	856	<LOD	38.08	<LOD	13.15	13105.4	208.25	36.04	8.97	<LOD	47.59	<LOD	182.54	<LOD	0	423.58	46.77	<LOD	10.62	51.89	2.9	<LOD	112.89	<LOD	5.08	<LOD	107.09	83.83	3.48	1319.93	278.59	255.88	5.51
9-Apr-12	61	22.46	stroh 5434	302	NA				billy porter pk		49	5	<LOD	11	<LOD	65	43	6	<LOD	114	<LOD	354	<LOD	32	<LOD	12	11415	172	<LOD	20	<LOD	50	<LOD	154	<LOD	0	439	42	<LOD	10	50	2	<LOD	101	<LOD	4	<LOD	93	78	3	2342	380	316	5
9-Apr-12	61	19.01	embree 5444	174	BLANK	3	3	8			155.05	8.68	-3.96	5.23	60.92	22.9	207.61	11.81	-91.13	38.65	ND		14.31	11.16	-6.05	4.05	7328.69	146.18	0.38	6.88	-140.08	17.3	55.49	45.22	ND		320.1	41.03	0.5	3.56	39.76	2.61	16.93	36.39	-2.07	1.3	78.74	33	67.89	3.25	1135.4	287.95	237.51	5.4
9-Apr-12	62	18.05	stroh_5420	103	NA	3	2	30			392.35	12.61	<LOD	27.44	<LOD	64.31	301.53	13.27	<LOD	135.64	<LOD	682.68	<LOD	32.89	<LOD	11.78	9764.1	163.43	31.12	8.28	<LOD	43.81	<LOD	143.84	<LOD	0	215.13	35.41	<LOD	9.91	33.24	2.33	<LOD	100.47	<LOD	4.54	<LOD	96.36	69.66	3.06	864.84	226.1	184.68	4.49
9-Apr-12	62	22.36	stroh 5434	302	NA				billy porter pk		53	5	<LOD	11	<LOD	65	49	6	<LOD	103	<LOD	328	<LOD	30	<LOD	13	9953	158	<LOD	20	<LOD	50	148	48	<LOD	0	671	47	12	3	48	2	<LOD	102	<LOD	3	<LOD	94	77	3	2862	376	304	5
9-Apr-12	62	57.25																																																							
9-Apr-12	63	17.95	stroh_5420	103	NA	3	2	30			624.62	16.4	<LOD	36.22	<LOD	66.1	374.87	15.11	<LOD	150.18	<LOD	728.35	<LOD	31.84	<LOD	14.19	10974.3	179.8	54.64	9.4	<LOD	45.3	<LOD	159.84	<LOD	0	211.95	37.01	<LOD	10.44	34.34	2.43	<LOD	105.44	<LOD	4.8	<LOD	100.74	73.41	3.2	702.57	232.97	204.85	4.81
9-Apr-12	63	22.49	stroh 5434	302	NA				billy porter pk		47	5	<LOD	11	<LOD	63	50	6	<LOD	107	<LOD	348	<LOD	33	<LOD	12	10654	164	<LOD	18	<LOD	49	<LOD	147	<LOD	0	383	39	<LOD	10	50	2	<LOD	100	<LOD	4	<LOD	92	78	3	2775	385	315	5
9-Apr-12	63	20.78	embree 5444		NIST 2586						411.15	15.58	5.48	9.44	97.49	26.36	326.35	16.62	169.39	84.91	ND		38.98	22.71	4.95	6.03	46698.16	613.64	36.9	10.89	24.34	20.73	562.82	125.41	ND		645.64	73.56	3.28	4.1	51.46	3.3	63.29	42.69	-3.09	1.76	126.95	38.95	82.25	3.99	4919.52	536.64	249.89	6.23
9-Apr-12	64	18.93	stroh_5420	103	NA	3	2	2			303.17	11.53	<LOD	25.99	<LOD	69.31	265.28	12.94	<LOD	168.8	<LOD	895.94	<LOD	36.21	<LOD	15.41	15604.62	229.94	31.99	8.59	<LOD	47.43	<LOD	194.57	<LOD	0	426.65	47.15	<LOD	10.77	59.32	3	<LOD	114.03	<LOD	4.69	<LOD	109.06	87.28	3.48	1751.13	295.62	306.07	5.93
9-Apr-12	64	22.54	stroh 5434	302	NA				billy porter pk		43	5	<LOD	11	<LOD	64	48	6	<LOD	94	<LOD	347	<LOD	32	<LOD	12	10117	160	<LOD	19	<LOD	50	263	50	<LOD	0	522	43	<LOD	10	48	2	<LOD	101	<LOD	4	<LOD	93	76	3	2491	378	309	5
9-Apr-12	64	20.81	embree 5444	103	NIST 2586	1	3	0			657.26	19.54	17.62	11.68	45.19	25.47	430.31	18.67	63.19	64.74	ND		23.27	16.25	0.15	5.79	21685.03	331.24	97.34	12.91	-30.39	19.89	109.23	82.7	ND		411.54	56.16	6.49	4.02	47.84	3.17	20.88	41.08	2.04	2.23	109.99	37.2	163.42	5.32	2614.9	412.46	231.31	5.99
9-Apr-12	65	18.08	stroh_5420	103	NA	3	2	2			307.92	11.66	<LOD	27.04	<LOD	68.46	232.12	12.23	<LOD	165.69	1008.17	299.9	<LOD	37.21	<LOD	13.76	13883.85	213.47	41.72	9.09	<LOD	46.7	<LOD	181.98	<LOD	0	183.98	38.34	<LOD	10.59	52.08	2.86	<LOD	107.81	<LOD	4.67	<LOD	103.56	84.19	3.44	1194.86	282.78	250.9	5.39
9-Apr-12	65	22.86	stroh 5434		blank						<LOD	9	<LOD	6	<LOD	63	14	4	<LOD	70	<LOD	201	<LOD	19	<LOD	11	<LOD	46	<LOD	17	<LOD	49	<LOD	32	<LOD	0	<LOD	35	9	3	<LOD	3	<LOD	99	<LOD	3	<LOD	91	<LOD	4	<LOD	535	<LOD	6
9-Apr-12	65	21.92	embree 5444	103	NIST 2586	1	3	0			676.47	21.48	25.45	12.92	34.73	27.82	493.96	21.72	53.24	68.59	ND		24.02	17.4	-3.28	6.1	21702.8	360.41	127.02	15.28	-6.6	21.8	52.79	88.87	ND		353.61	58.56	-1.66	4.23	32.03	3	-5.73	45.66	-8.15	1.67	217.5	41.75	184.6	6.13	1575.37	388.99	190.79	6.02
9-Apr-12	66	17.85	stroh_5420	103	NA	3	2	2			306.11	11.69	<LOD	26.45	<LOD	68.7	246.18	12.65	<LOD	159.08	<LOD	833.32	<LOD	38.46	<LOD	14.96	13323.65	209.07	46.81	9.41	<LOD	47.75	<LOD	178.99	<LOD	0	375.46	44.93	<LOD	10.85	55.18	2.94	<LOD	113.03	<LOD	4.44	<LOD	106.6	88.85	3.54	<LOD	777.04	293.8	5.87
9-Apr-12	66	23.2	stroh 5434		2711						1234	28	112	19	<LOD	82	327	16	<LOD	173	<LOD	501	<LOD	56	25	8	26111	373	64	13	75	21	496	95	<LOD	0	561	60	<LOD	12	102	4	<LOD	131	<LOD	9	<LOD	120	249	6	2887	532	247	6
9-Apr-12	66	21.38	embree 5444	103	NIST 2586	1	3	0			577.62	18.8	22.14	11.41	13.25	26.21	428.41	19.25	136.42	68.31	ND		26.31	15.78	13.6	6.88	20348.22	326.79	122.6	14.28	-69.39	20.33	-73.61	80.34	ND		371.87	55.97	-4.83	4.04	36.77	2.97	-73.7	43.32	-2.05	1.98	156.65	39.3	142.26	5.13	2693.02	405.6	239.5	6.27
9-Apr-12	67	18.27	stroh_5420	103	NA	3	2	4			219.46	10.36	<LOD	24.17	<LOD	72.48	142.19	10.25	211.22	63.38	<LOD	922.06	<LOD	40.51	<LOD	14.51	16287.61	248.03	37.6	9.35	<LOD	50.09	<LOD	200.47	<LOD	0	363.55	47.77	<LOD	11.27	62.1	3.19	<LOD	118.85	<LOD	4.48	<LOD	113.13	92.19	3.73	2212.6	317.9	305.62	6.21
9-Apr-12	67	23.3	stroh 5434		2586						451	16	<LOD	34	<LOD	81	306	16	<LOD	209	<LOD	606	<LOD	70	<LOD	18	49378	625	45	11	<LOD	64	785	130	<LOD	0	933	78	<LOD	12	51	3	<LOD	128	<LOD	6	<LOD	119	81	4	7416	712	242	6
9-Apr-12	67	20.74	embree 5444	103	NIST 2586	1	3	2			340.25	12.73	28.79	8.11	25.16	22.61	403.7	16.55	-22.31	47.94	ND		3.74	12.09	-7.81	4.31	14648.38	230.69	45.46	9.42	-181.71	17.38	30.71	62.26	ND		215.52	41	2.02	3.55	33.62	2.52	38.35	35.94	-1.43	1.55	172.22	32.91	93.14	3.75	1234.18	293.86	161.75	4.65
9-Apr-12	68	58.38																																																						
9-Apr-12	68	23.25	stroh 5434		4315						278	11	<LOD	24	<LOD	71	845	23	<LOD	110	<LOD	302	<LOD	27	<LOD	15	3162	89	74	10	<LOD	55	<LOD	93	<LOD	0	577	47	<LOD	10	8	2	<LOD	111	<LOD	5	<LOD	104	297	6	<LOD	776	51	3
9-Apr-12	68	21.87	embree 5444	103	NIST 2586	1	3	2			378.71	15.26	9.1	9.34	56.03	26.86	253.76	15.06	96.71	66.19	ND		24.74	15.31	7.32	6.21	17022.76	290.86	71.05	12.18	-65.26	20.55	-23.69	74.97	ND		257.2	50.61	4.12	4.15	48.49	3.28	-50.05	44.37	-2.3	1.77	115.99	39.85	90.06	4.22	1202.02	373.08	218.22	6.01
9-Apr-12	69	20.95	stroh_5420		2711						1207.4	27.6	130.27	20.12	<LOD	78.94	328.6	16.55	<LOD	182.98	<LOD	1053.75	<LOD	54.04	<LOD	24.34	26298.4	382.17	111.03	13.53	<LOD	55.4	<LOD	280.59	<LOD	0	453.61	58.59	<LOD	12.31	123.65	4.83	<LOD	128.32	<LOD	8.05	<LOD	121.57	254.83	6.68	2347.08	361.35	258.64	6.44
9-Apr-12	69	22.81	stroh 5434		2710						5910	90	728	47	<LOD	89	7101	112	<LOD	241	<LOD	694	<LOD	71	99	17	38413	565	2864	67	<LOD	72	482	127	<LOD	0	9748	242	28	4	125	5	<LOD	144	<LOD	16	<LOD	134	337	9	2911	698	114	5
9-Apr-12	69	22.18	embree 5444	103	NIST 2586	1	3	2			413.96	16.1	24.1	10.03	74.3	26.68	324.31	17.04	110.16	65.13	ND		16.17	13.92	-11.88	4.65	14962.28	268.42	78.68	12.55	-93.7	20.56	-121.65	69.42	ND		251.27	49.6	-0.82	4.09	41.17	3.12	47.38	43.23	-0.47	1.94	191.87	39.07	107.17	4.58	1705.45	378.21	181.88	5.62
9-Apr-12	70	54.51																																																							
9-Apr-12	70	23.28	stroh 5434		5861						63	7	51	6	<LOD	80	134	14	640	74	<LOD	412	1009	42	<LOD	15	15307	246	2895	58	133	21	323	71	<LOD	0	<LOD	126	12	4	18	2	<LOD	128	<LOD	5	<LOD	117	116	4	<LOD	1176	63	3
9-Apr-12	70	20.3	embree 5444	103	NIST 2586	1	3	4			353.23	13.58	31.44	8.66	26.44	24.84	279.41	14.5	46.68	57.82	ND		12.88	13.54	16.14	6.33	16773.99	264.67	47.62	10.14	-79.18	18.78	-20.05	68.73	ND		344.39	49.45	-7.36	3.75	46.81	2.98	56.73	40.78	-0.43	1.77	118.83	36.49	94.96	3.97	2367.72	378.13	273.79	6.16
9-Apr-12	71	20.8	stroh_5420		2586						420.65	16.15	<LOD	36.47	<LOD	82.78	330.19	17.16	357.66	94.49	<LOD	1361.6	106.11	23.66	<LOD	18.49	52187.61	683.22	78.2	12.99	79.14	19.45	<LOD	403.62	<LOD	0	697.72	78.21	<LOD	12.87	49.35	3.36	<LOD	135.1	<LOD	5.6	133.36	43.66	90.5	4.23	5087.31	493.73	251.9	6.42
9-Apr-12	71	23.98	embree 5444	103	NIST 2586	1	3	4			271.16	13.33	13.03	8.34	41.21	27.72	266.15	15.86	-47.65	56.09	ND		22.91	15.27	10.63	6.58	14830.65	272.42	90.43	13.43	-11.85	21.48	-17.71	72.26	ND		223.15	48.57	3.43	4.31	44.49	3.26	-2.43	44.88	-1.81	1.76	184.55	40.89	87.87	4.3	1066.02	350.34	241.77	6.49
9-Apr-12	72	20.37	stroh_5420		5861						60.79	6.57	44.98	6.05	84.8	26.17	149.39	15.48	1251.68	107.51	<LOD	872.53	1042.94	42.81	<LOD	15.54	16990.15	269.29	2874.17	60.03	116.1	18.12	<LOD	222.29	<LOD	0	167.4	48.2	<LOD	11.05	26.71	2.47	<LOD	129.23	<LOD	5.41	<LOD	123.29	117.47	4.36	<LOD	766.17	75.58	3.86
9-Apr-12	72	20.57	embree 5444	103	NIST 2586	1	3	4			335.2	13.24	26.45	8.4	24.4	24.46	278.8	14.5	8.99	54.45	ND		5.91	12.89	0.6	5.2	16201.46	258.7	69.91	11.05	-88.21	18.73	-40.7	67.33	ND		299.97	47.31	-1.73	3.77	50.64	3.07	17.12	40.32	-1.73	1.64	114.38	36.26	90.71	3.89	1683.78	341.78	241.4	5.8
9-Apr-12	73	18.5	stroh_5420		2710						5315.6	83.98	642.39	47.78	<LOD	87.69	6947.3	113.57	<LOD	290.95	<LOD	1357.4	<LOD	68.08	61.54	16.3	36972.74	562.02	2985.89	70.94	<LOD	62.3	<LOD	374.62	<LOD	0	9275.3	240.98	<LOD	13.73	131.45	5.85	<LOD	141.04	<LOD	15.3	141.25	45.41	321.82	8.62	1475.32	417.87	113.24	5.52
9-Apr-12	73	23.86	embree 5444	103	NIST 2586	1	3	6			255.98	14.85	29.25	9.63	20.97	31.66	210.63	16.2	77.39	75.01	ND		21.56	17.39	-1.77	6.34	15209.37	317.78	45.92	13.09	-102.08	24.17	-31.96	83.21	ND		241.19	57.5	-15.27	4.75	45.68	3.77	-49.74	51.61	-0.1	2.17	103.34	47.02	80.33	4.75	1641.19	451	257.24	7.67
9-Apr-12	74	19.98	stroh_5420		4315						294.42	11.59	<LOD	26.13	<LOD	71.25	886.63	24.37	<LOD	147.2	<LOD	702.61	<LOD	27.15	<LOD	15.49	2795.98	85.76	110.01	11.87	57.35	16.4	<LOD	86.65	<LOD	0	610.68	49	<LOD	10.09	12.84	1.93	<LOD	116.97	<LOD	4.59	<LOD	111.26	289.42	6.35	<LOD	591.4	36.42	3.36
9-Apr-12	74	21	embree 5444	103	NIST 2586	1	3	6			304.64	12.85	19.15	8.1	26.69	25.32	227.67	13.38	168.86	63.68	ND		40.4	14.86	-4.69	4.79	15745.01	258.17	37.47	9.88	-71.51	19.15	-28.54	67.72	ND		424.99	53	-0.41	3.87	50.5	3.11	-36.75	40.51	-0.67	1.72	159.73	37.18	81.96	3.8	2155.55	361.22	253.3	6.03
9-Apr-12	75	20.41	stroh_5420		Blank						<LOD	8.96	<LOD	5.85	<LOD	66.59	<LOD	8.1	<LOD	94.67	<LOD	533.58	<LOD	21.77	<LOD	10.07	<LOD	44.94	<LOD	16.9	<LOD	45.85	<LOD	28.34	<LOD	0	<LOD	54.57	<LOD	9.19	<LOD	3.57	<LOD	107.88	<LOD	3.77	<LOD	102.72	<LOD	4.52	<LOD	484.05	<LOD	6.48
9-Apr-12	75	20.18	embree 5444	103	NIST 2586	1	3	6			408.12	14.58	33.13	9.22	54.99	25.16	349.15	16.14	84.34	59.9	ND		66.35	15.44	3.3	5.53	17343.58	270.71	71.61	11.32	-85.7	18.73	-181.18	67.54	ND		471.61	54.06	-2.73	3.77	51.13	3.08	-54.61	40.45	-1.33	1.75	165.47	36.7	84.03	3.77	2048.51	363.45	257.17	5.96
9-Apr-12	76	21.43	embree 5444	103	NIST 2586	1	3	8			255.12	11.99	10.53	7.48	12.6	25.35	188.47	12.48	105.84	61.83	ND		9.88	13.87	-1.07	5.1	14560.09	248.94	36.49	9.9	-72.68	19.49	76.1	67.92	ND		403.96	52.61	-3.17	3.94	50.24	3.16	-4.9	40.97	-2.89	1.52	226.97	37.4	81.06	3.85	2064.34	378.96	278.92	6.43
9-Apr-12	77	20.73	embree 5444	103	NIST 2586	1	3	8			362.98	13.52	8.23	8.29	73.87	23.88	263.19	13.86	64.25	54	ND		-13.48	11.76	-0.43	5	14979.64	240.99	58.04	10.28	-123.84	18.2	35.41	64.85	ND		301.97	45.96	-1.76	3.73	52.89	3.07	21.34	37.98	-4.06	1.44	158.81	34.83	84	3.71	2233	327.26	262.33	5.93
9-Apr-12	78	20.42	embree 5444	103	NIST 2586	1	3	8			360.89	13.55	27.8	8.58	67.95	24.48	315.47	15.17	102.96	58.83	ND		3.28	12.99	-2.51	4.95	15699.84	249.69	58.11	10.41	-98.09	18.43	54.03	66.8	ND		247.9	45.01	1.74	3.76	56.85	3.17	-7.29	39.05	-1.75	1.64	228.32	35.63	83.11	3.7	1422.41	330.34	242.93	5.73
9-Apr-12	79	53.55																																																							
9-Apr-12	80	19.29	jackson 5444		nist2710						5679.49	91.04	629.46	41.46	-18.13	30.21	7348.23	121.62	1.82	97.86	ND		0.57	22.86	89.61	17.2	37942.02	588.48	3059.56	74.22	-25.37	23.91	-139.02	122.89	ND		9787.95	255.69	12.98	4.67	129.21	5.96	36.19	49.75	-2.91	5.37	89.2	45.35	346.21	9.24	2429.18	543.3	120.19	5.71
9-Apr-12	81	20.1	jackson 5444		nist 2711						1143.96	26.83	105.89	16.04	34.94	26.19	321.55	16.36	66.22	66.78	ND		20.02	16.47	14.1	7.26	23727.4	355.26	102.58	13.32	24.34	20.34	56.04	86.06	ND		379.62	56.43	3.2	4.02	110.27	4.57	60.19	43.29	1.21	2.59	127.82	39.28	233.69	6.42	1944.74	388.25	242.92	6.23
9-Apr-12	82	20.39	jackson 5444		NIST 2586						405.84	15.75	11.26	9.63	67.97	27.28	365.86	17.88	210.34	89.25	ND		84.87	23.41	7.71	6.38	49726.41	656.86	63.85	12.44	31.71	21.14	65.97	126.66	ND		611.19	74.85	0.54	4.15	52.17	3.37	-0.89	44.45	-0.12	2.02	36.43	40.33	86.2	4.13	5021.35	551.51	256.53	6.42
9-Apr-12	83	19.85	jackson 5444		PES4315						301.45	11.76	9.84	7.3	47.43	23.59	907.55	24.79	114.83	49.83	ND		16.31	9.73	-6.28	4.73	3334.32	93.21	151.82	13.22	9	17.94	-74.73	29.11	ND		542.78	48.13	4.6	3.36	10.53	1.85	47.35	37.45	-0.77	1.52	86.91	33.99	326.05	6.88	-145.15	227.99	40.64	3.47
9-Apr-12	84	20.14	jackson 5444		PES4315						260.96	11.03	17.63	7	31.48	23.49	888.56	24.6	33.96	45.02	ND		0.18	8.73	-10.87	4.33	2892.44	86.89	135.07	12.68	-5.83	17.94	-44.24	28.21	ND		552.42	48.17	-1.18	3.31	12.04	1.89	46.64	37.77	1.78	1.67	122.19	34.14	293.37	6.51	-137.83	230.73	39.65	3.42
9-Apr-12	85	20.33	jackson 5444		PES 5861						49.6	6.21	44.88	5.06	113.97	26.71	147.57	15.17	1080.56	100.76	ND		804.48	37.89	3.27	5.46	13396.69	233.89	3537.92	69.79	119.23	20.37	15.33	64.26	ND		123.4	45.6	2.18	3.71	26.61	2.48	-3.98	44.04	3.77	1.83	123.94	39.86	104.66	4.24	1014.7	301.84	68.97	3.82
9-Apr-12	86	20.32	jackson 5444		PES 5861						43.91	6.01	45.61	4.97	114.32	26.67	131.11	13.94	796.52	92.68	ND		925.53	40.18	1.55	5.28	14114.32	241.34	2762.46	59.85	97.71	20.22	-41.45	64.72	ND		132.9	45.45	7.16	3.78	25	2.43	83.44	43.86	5.98	1.98	124.07	39.52	112.48	4.36	359.82	330.67	87.95	4.07
9-Apr-12	87	20.02	jackson 5444		BLANK						3.42	3.08	-0.51	1.72	-1.5	21.45	12.94	4.02	27.45	35.08	ND		-5.14	6.04	2.01	4	43.82	16.08	-2.61	5.46	9.36	16.3	-22.95	8.41	ND		-17.4	16.99	-0.46	2.96	3.01	1.3	-23.25	34.48	1.46	1.22	55.49	31.08	1.51	1.46	-237.56	172	-3.2	2.08
10-Apr-12	1	53.71																																																						
10-Apr-12	1	46.65																																																						
10-Apr-12	1	55.99																																																						
10-Apr-12	2	20.6	wilder_5420		5861						49.18	6.12	47.78	5.83	<LOD	77.57	101.83	14.38	1110.84	102	<LOD	843.2	1053.62	42.6	<LOD	17.59	15607.45	253.35	2903.6	60.22	81.06	17.87	<LOD	208.5	<LOD	0	212.46	48.45	<LOD	11.12	24.07	2.39	<LOD	128.67	<LOD	5.28	<LOD	120.09	118.8	4.37	<LOD	769.07	74.97	3.84
10-Apr-12	2	23.05	jackson 5434		5861						59	6	45	6	<LOD	76	109	13	766	76	<LOD	402	976	40	<LOD	16	14530	230	2803	55	68	20	259	67	<LOD	0	215	45	14	3	20	2	<LOD	123	<LOD	5	<LOD	112	107	4	<LOD	1095	61	3
10-Apr-12	2	18.83	jackson 5444		nist2710						5338.9	82.6	656.68	38.7	19.09	28.35	6800.57	109.2	8.52	90.91	ND		-8.89	20.95	75.8	15.67	35259.43	528.45	2847.81	67.68	-85.11	22.32	-75.46	113.65	ND		9164.26	234.29	10	4.38	127.85	5.63	-20.89	46.66	-13.22	4.66	118.91	42.22	313.01	8.32	1533.17	476.46	111.47	5.27
10-Apr-12	3	20.54	wilder_5420		2711						1108.31	26.04	130	19.22	<LOD	78.67	324.19	16.29	<LOD	212.99	<LOD	1051.49	<LOD	45.96	24.69	8.14	25103.55	365.78	106.9	13.04	58.88	18.33	<LOD	278.03	<LOD	0	495.99	59.73	<LOD	12.01	110.39	4.54	<LOD	128.22	<LOD	9.01	<LOD	123.94	244.25	6.47	1861.7	346.96	246.17	6.22
10-Apr-12	3	23.15	jackson 5434		2586						444	16	<LOD	33	<LOD	80	313	16	305	76	<LOD	602	<LOD	67	<LOD	19	49334	616	56	12	<LOD	62	871	129	<LOD	0	719	72	<LOD	12	44	3	<LOD	127	<LOD	6	<LOD	118	86	4	6999	697	239	6
10-Apr-12	3	19.65	jackson 5444		PES 5861						58.19	6.33	31.94	4.73	69.4	25.53	145.08	14.02	1126.66	100.6	ND		895.04	38.77	11.58	5.84	15838.95	253.33	2899.56	59.77	110.72	19.65	103.69	68.49	ND		144.83	46.4	1.32	3.57	23.26	2.3	66.25	42.19	4.24	1.81	75.06	37.97	116.62	4.31	834.34	315.14	69.08	3.71
10-Apr-12	4	20.77	wilder_5420		2586						413.75	15.61	<LOD	34.65	<LOD	79.7	330.32	16.71	284.66	89.25	<LOD	1353.18	<LOD	70.67	<LOD	18.41	49374.12	634.83	80.99	12.65	<LOD	55.89	<LOD	397.12	<LOD	0	836.45	78.9	<LOD	12.21	46.1	3.19	<LOD	127.76	<LOD	6.21	<LOD	123.76	89.78	4.1	4192.68	466.73	256.97	6.31
10-Apr-12	4	22.6	jackson 5434		2710						6081	90	691	47	<LOD	89	7347	114	<LOD	238	<LOD	638	<LOD	72	101	17	39574	572	2927	67	109	24	<LOD	377	<LOD	0	10162	246	28	4	134	5	<LOD	144	<LOD	16	<LOD	134	348	9	3891	685	110	5
10-Apr-12	4	20.3	jackson 5444		nist 2711						1101.57	25.62	132.08	15.64	53.08	24.81	333.1	16.23	-39.06	60.86	ND		17.83	16.35	16.48	7.2	24124.28	351.03	101.19	12.91	-66.66	19.38	130.77	85.58	ND		379.91	54.98	-3.65	3.85	115.63	4.55	116.57	39.98	2.46	2.57	46.25	36.44	248.2	6.47	1856.58	390.72	243.03	6.1
10-Apr-12	5	19.53	wilder_5420		2710						5855.86	92.51	687.79	51.12	<LOD	91.62	7337.84	120.93	<LOD	300.69	<LOD	1483.61	<LOD	73.92	50.56	16.74	39190.97	601.76	3115.29	74.37	142.61	22.05	<LOD	396.3	<LOD	0	10209.11	260.35	24.21	4.84	146.29	6.3	<LOD	151.05	<LOD	17.25	<LOD	147.79	383.13	9.72	2886.11	483.69	114.52	5.77
10-Apr-12	5	22.57	jackson 5434		2710						5820	87	647	46	<LOD	88	7234	112	<LOD	233	<LOD	679	<LOD	68	78	16	37648	548	2825	65	<LOD	70	368	122	<LOD	0	9806	240	23	4	129	5	<LOD	142	<LOD	15	<LOD	131	347	9	3413	696	114	5
10-Apr-12	5	20.16	jackson 5444		NIST 2586						413.5	15.77	12.11	9.64	4.55	26.8	329.68	16.88	245.36	89.94	ND		50.26	22.16	-1.41	5.62	48818.89	641.53	73.93	12.65	50	21.06	145.29	125.25	ND		698.52	76.49	-3	4.08	47.18	3.22	19.41	44.09	-0.2	2	164.42	40.43	80.82	3.99	5797.67	572.57	259.06	6.39
10-Apr-12	6	18.87	wilder_5420		4315						290.43	11.83	<LOD	26.55	<LOD	72.39	835.16	24.25	<LOD	139.03	<LOD	712.63	<LOD	27.86	<LOD	16.42	2721.06	86.81	105.93	12.04	75.64	16.94	<LOD	87.42	<LOD	0	553.48	48.21	<LOD	10.28	9.18	1.86	<LOD	119.82	<LOD	4.82	<LOD	114.63	289.72	6.53	<LOD	594.03	43.95	3.54
10-Apr-12	6	22.97	jackson 5434		2711						1171	26	89	18	<LOD	77	343	16	203	60	<LOD	457	<LOD	50	30	8	25395	354	83	13	<LOD	61	383	90	<LOD	0	415	54	<LOD	11	108	4	<LOD	124	19	3	<LOD	114	243	6	3463	513	231	6
10-Apr-12	6	19.78	jackson 5444		BLANK						1.55	2.99	1.65	1.78	38.19	21.47	4.71	3.5	-19.29	33.04	ND		-1.98	6.46	-3.63	3.6	16.01	14.55	-9.84	5.08	-2.69	16.49	-13.17	9	ND		-22.87	16.58	-4.19	2.97	0.52	1.22	0.99	35	0.03	1.13	56.98	31.61	1.61	1.48	-292.04	184.47	-1.46	2.14
10-Apr-12	7	18.95	wilder_5420		Blank						<LOD	9.5	<LOD	6.12	<LOD	64.61	<LOD	10.51	<LOD	104.75	<LOD	511.53	<LOD	20.26	<LOD	11.46	<LOD	50.55	<LOD	16.66	<LOD	44.84	<LOD	30.92	<LOD	0	<LOD	52.17	<LOD	8.95	<LOD	3.63	<LOD	101.95	<LOD	3.61	<LOD	98.4	<LOD	4.22	<LOD	436.33	<LOD	6.62
10-Apr-12	7	24.33	jackson 5434		4315						324	11	<LOD	25	<LOD	67	933	23	<LOD	108	<LOD	267	<LOD	28	<LOD	15	3325	86	117	11	<LOD	52	<LOD	87	<LOD	0	660	47	9	3	15	2	<LOD	104	<LOD	4	<LOD	96	321	6	<LOD	752	43	3
10-Apr-12	7	23.13	embree 5444	110	NA	1	2	0			1650.64	47.27	18.47	25.56	0.85	34.78	21694.75	371.12	-14.13	115.56	ND		-55.69	30.61	-50.98	17.36	45148.96	839.34	266.94	31.85	-235.14	28.45	348.62	171.06	ND		213.77	92.57	7.04	5.9	19.34	3.57	69.76	54.07	-1.68	4.09	73.56	50.46	184.09	8.08	478.62	573.46	144.91	7.04
10-Apr-12	8	53.78																																																						
10-Apr-12	8	23.11	jackson 5434		4315						303	11	<LOD	25	<LOD	69	894	23	<LOD	109	<LOD	281	<LOD	27	<LOD	15	2956	84	99	11	<LOD	54	<LOD	92	<LOD	0	604	47	<LOD	9	10	2	<LOD	107	<LOD	4	<LOD	100	304	6	<LOD	824	41	3
10-Apr-12	8	21.24	embree 5444	110	NA	1	2	0			1123.87	28.37	80.71	16.75	13.15	27.72	1708.14	42.35	-42.32	71.46	ND		7.45	19.13	-10	6.76	33424.23	494.55	196.97	17.98	-34.14	21.54	135.2	109.19	ND		366.53	63.61	2.3	4.11	12.64	2.4	6	45.23	0.8	2.69	56.86	40.9	147.73	5.45	1431.14	416.82	89.32	4.54
10-Apr-12	9	20.94	wilder_5420	110	NA	1	1	0			1019.36	28.09	<LOD	60.51	<LOD	88.56	1474.1	40.79	<LOD	238.09	<LOD	1125.78	<LOD	65.81	<LOD	21.67	34096.39	524.78	248.19	20.41	<LOD	62.15	<LOD	359.5	<LOD	0	412.62	67.92	<LOD	13.48	14.24	2.63	<LOD	143.34	<LOD	8.73	<LOD	138.77	208.3	6.74	<LOD	1023.58	135.23	5.54
10-Apr-12	9	23.15	jackson 5434		4315						293	11	<LOD	24	<LOD	68	830	22	<LOD	108	<LOD	327	<LOD	26	<LOD	13	2775	81	84	11	<LOD	54	<LOD	85	<LOD	0	657	48	<LOD	9	9	2	<LOD	107	<LOD	4	<LOD	99	312	6	<LOD	856	35	3
10-Apr-12	9	22.65	embree 5444	110	NA	1	2	0			974.59	29.08	69.02	17.35	8.9	30.49	1361.77	41.32	73.08	83.22	ND		7.84	19.65	2.28	8.15	30354.57	512.83	208.79	20.38	1.27	24.28	-64.46	113.31	ND		302.67	67.04	5.51	4.67	17.44	2.86	74.33	50.43	-2.98	2.62	84.66	45.83	202.2	7.08	1002.24	422.46	99.74	5.33
10-Apr-12	10	22.55	wilder_5420	110	NA	1	1	0			726.49	21.87	<LOD	47.86	<LOD	81.3	966.4	30.24	<LOD	222.78	<LOD	948.15	<LOD	54.86	<LOD	21.79	24186.03	380.8	96.47	13.85	<LOD	57.28	<LOD	282	<LOD	0	498.03	62.95	<LOD	12.5	22.66	2.69	<LOD	131.1	<LOD	6.84	<LOD	124.77	177.62	5.85	1591.79	329.78	107.74	4.8
10-Apr-12	10	22.72	jackson 5434		blank						<LOD	9	<LOD	6	<LOD	62	<LOD	10	<LOD	74	<LOD	213	<LOD	22	<LOD	12	49	16	<LOD	15	<LOD	48	<LOD	27	<LOD	0	<LOD	41	<LOD	8	<LOD	3	<LOD	97	<LOD	3	<LOD	89	<LOD	4	<LOD	591	<LOD	6
10-Apr-12	10	21.35	embree 5444	110	NA	1	2	2			1052.57	26.53	42.79	15.45	12.97	26.19	1276.53	34.71	68.36	71.2	ND		20.01	17.57	-0.61	6.87	26683.63	403.46	119.17	14.65	-75.51	20.63	47.58	94.36	ND		326.96	58.03	9.61	4.14	27.81	2.82	-15.21	43.29	1	2.56	89.59	39.16	213.11	6.35	2010.9	416.63	143.14	5.21
10-Apr-12	11	21.64	wilder_5420	110	NA	1	1	0			798.63	23	<LOD	50.31	<LOD	82.29	1215.93	34.34	<LOD	229.89	<LOD	1093.19	<LOD	60.22	<LOD	20.35	33956.56	490.65	255.7	19.29	<LOD	58.29	<LOD	339.54	<LOD	0	308.93	60.34	<LOD	12.42	17.41	2.57	<LOD	134.62	<LOD	7.92	<LOD	131.6	340.32	8.24	1110.82	345.96	106.4	5.02
10-Apr-12	11	48.18																																																						
10-Apr-12	11	22.37	embree 5444	110	NA	1	2	2			757.98	23.19	40.19	13.97	36.34	27.76	1170.31	34.81	13.73	66.93	ND		-19.03	16.42	-5.73	6.49	20613.45	351.88	102.39	14.54	-77.32	21.71	288.27	91.29	ND		315.86	57.46	3.24	4.31	27.9	2.92	71.31	44.88	-3.41	2.15	-49.47	40.57	146.33	5.54	585.04	354.47	156.61	5.59
10-Apr-12	12	21.78	wilder_5420	110	NA	1	1	2			967.47	27.29	<LOD	58.77	<LOD	85.19	1329.45	38.48	<LOD	216.74	<LOD	1066.67	<LOD	57.13	<LOD	20.19	23471.17	396.46	164.31	17.45	<LOD	60.17	<LOD	302.58	<LOD	0	314.93	59.42	<LOD	13.23	23.69	2.92	<LOD	136.87	<LOD	7.47	<LOD	131.1	140.2	5.56	1054.54	343.68	110.48	5.1
10-Apr-12	12	22.58	stroh 5434	110	NA	3	1	30			370	12	<LOD	26	<LOD	65	402	15	<LOD	122	<LOD	352	<LOD	32	<LOD	14	10746	167	<LOD	21	<LOD	50	189	51	<LOD	0	548	45	<LOD	10	37	2	<LOD	102	<LOD	5	<LOD	95	82	3	2350	380	288	5
10-Apr-12	12	21.49	embree 5444	110	NA	1	2	2			983.63	24.84	36.39	14.53	-36.08	25.31	1079.49	30.81	-24.01	61.11	ND		29.77	16.02	1.24	6.58	22538.19	346.56	193.77	16.66	-117.29	19.79	-96.26	82.94	ND		386.76	56.29	4.42	3.93	22.78	2.57	29.49	40.33	-1.67	2.26	29.24	36.43	160.45	5.36	1113.49	359.03	117.29	4.68
10-Apr-12	13	20.48	wilder_5420	110	NA	1	1	2			1264.7	26.39	<LOD	54.79	<LOD	69.57	1561.17	34.95	<LOD	196.13	<LOD	850.2	<LOD	50.96	<LOD	18.55	25229.65	344.7	216.04	15.98	<LOD	48.32	<LOD	259.29	<LOD	0	266.99	48.69	<LOD	10.71	22.4	2.39	<LOD	110.07	<LOD	7.31	<LOD	105.27	131.73	4.47	<LOD	814.31	105.95	4.14
10-Apr-12	13	23.22	stroh 5434	110	NA	3	1	30			223	9	<LOD	19	<LOD	62	193	10	<LOD	105	<LOD	331	<LOD	32	<LOD	14	8791	139	<LOD	21	<LOD	48	247	45	<LOD	0	512	41	<LOD	9	45	2	<LOD	100	<LOD	4	<LOD	92	89	3	3218	377	353	5
10-Apr-12	13	21.84	embree 5444	110	NA	1	2	4			494.09	16.41	44.28	10.36	-28.19	23.88	737.82	24.08	-72.52	47.94	ND		-21.42	11.95	-12.78	4.56	14232.74	241.5	58.42	10.74	-187.45	18.56	123.02	66.91	ND		245.25	44.68	0.47	3.76	26.76	2.51	3.4	37.77	-3.76	1.62	22.5	34.51	85.41	3.87	1203.89	313.62	139.47	4.68
10-Apr-12	14	21.13	wilder_5420	110	NA	1	1	2			1112.66	24.79	<LOD	52.58	<LOD	69.9	1356.52	32.61	<LOD	176.89	<LOD	801.11	50.07	16.32	<LOD	18.57	23718.95	333.71	151.15	14.21	<LOD	48.66	<LOD	249.92	<LOD	0	373.53	51.67	<LOD	11.19	26.82	2.53	<LOD	109.65	<LOD	7.04	<LOD	106.17	131.12	4.51	<LOD	784.4	102.21	4.14
10-Apr-12	14	22.5	stroh 5434	110	NA	3	1	2			196	9	<LOD	18	<LOD	64	185	10	<LOD	102	<LOD	309	<LOD	30	<LOD	13	7182	129	<LOD	21	<LOD	50	<LOD	122	<LOD	0	491	42	<LOD	10	40	2	<LOD	103	<LOD	4	<LOD	95	81	3	2281	349	283	5
10-Apr-12	14	21.6	embree 5444	110	NA	1	2	4			470.02	16.45	25.09	10.18	-27.43	25.4	529.08	20.8	80.39	61.04	ND		-11.47	13.18	-3.54	5.4	14590.63	252.47	43.86	10.45	-85.29	19.7	136.09	69.78	ND		279.96	48.58	1.04	3.94	38.17	2.91	-4.74	41.74	-1.66	1.83	52.94	37.53	118.73	4.6	1429.65	355.76	191.04	5.5
10-Apr-12	15	18.46	wilder_5420	110	NA	1	1	4			313.82	12.14	<LOD	27.51	<LOD	69.18	458.54	17.51	<LOD	175.98	<LOD	852.29	47.87	14.21	<LOD	12.64	14872.65	230.85	42.43	9.58	<LOD	48.53	<LOD	192.58	<LOD	0	396.44	47.6	<LOD	11.04	44.11	2.77	<LOD	113.84	<LOD	4.72	<LOD	109.22	105.88	3.92	906.29	269.3	282.14	5.92
10-Apr-12	15	21.47	stroh 5434	110	NA	3	1	2			222	8	<LOD	17	<LOD	56	198	9	<LOD	89	<LOD	248	<LOD	25	<LOD	12	6117	104	<LOD	18	<LOD	43	119	34	<LOD	0	333	32	11	3	29	2	<LOD	86	<LOD	3	<LOD	80	64	2	1908	283	219	4
10-Apr-12	15	20.7	embree 5444	110	NA	1	2	4			608.38	17.78	40.5	10.96	-9.12	23.67	752.72	23.61	-57.72	50.91	ND		30.82	14.7	5.36	5.95	17574.77	270.34	85.77	11.75	-141.2	18.24	53.12	70.48	ND		335.26	48.44	3.47	3.69	39.46	2.79	50.41	38.01	0.57	1.98	18.67	34.11	113.6	4.25	1420.73	328.72	160.59	4.82
10-Apr-12	16	19	wilder_5420	110	NA	1	1	4			617.72	17.53	<LOD	38.95	<LOD	70.46	673.68	21.83	<LOD	164.64	<LOD	807.6	<LOD	43.24	<LOD	16.52	16927.24	257.87	63.28	10.66	<LOD	49.08	<LOD	213.11	<LOD	0	509.05	52.6	<LOD	11.17	35.02	2.64	<LOD	114.22	<LOD	5.52	<LOD	110.17	118.55	4.22	1249.09	273.13	207.74	5.26
10-Apr-12	16	21.03	stroh 5434	110	NA	3	1	2			179	7	<LOD	15	<LOD	52	233	9	<LOD	75	<LOD	247	<LOD	23	<LOD	9	6163	99	<LOD	16	<LOD	40	<LOD	96	<LOD	0	332	30	13	3	25	2	<LOD	80	<LOD	3	<LOD	74	50	2	1886	274	167	3
10-Apr-12	16	20.79	embree 5444	110	NA	1	2	6			509.87	16.23	19.1	9.91	-27.17	24.05	544.47	19.97	-40.15	50.19	ND		7.68	13.61	-2.04	5.21	15050.26	243.54	61.5	10.64	-137.86	18.29	161.38	67.26	ND		293.11	45.93	8.11	3.76	40.73	2.81	53.23	38.27	-0.78	1.8	-41.56	34.78	90.07	3.85	1573.49	330.81	173.24	4.95
10-Apr-12	17	19.74	wilder_5420	110	NA	1	1	4			525.61	15.61	<LOD	35.04	<LOD	69.46	598.91	19.91	<LOD	162.26	1359.86	315.22	<LOD	41.17	<LOD	15.53	16419.87	244.64	65.6	10.38	<LOD	48.12	<LOD	207.02	<LOD	0	390.96	47.49	<LOD	10.93	38.74	2.64	<LOD	114.39	<LOD	5.34	110.1	36.1	115.71	4.05	<LOD	823.22	259.5	5.64
10-Apr-12	17	22.77	stroh 5434	110	NA	3	1	2			271	10	<LOD	23	<LOD	66	267	12	<LOD	106	<LOD	347	<LOD	33	<LOD	14	9129	153	<LOD	22	<LOD	51	229	49	<LOD	0	434	42	12	3	35	2	<LOD	103	<LOD	5	<LOD	96	79	3	1559	356	281	5
10-Apr-12	17	22.02	embree 5444	110	NA	1	2	6			459.19	16.33	9.38	9.91	-51.24	25.09	475.83	19.82	24.63	55.66	ND		2.21	13.51	-3.54	5.3	13887.35	245.42	67.66	11.56	-130.35	19.52	88.47	67.78	ND		215.86	45.15	3.57	3.97	35.51	2.85	-4.98	40.7	-1.14	1.84	-51.59	36.64	94.98	4.18	1850.18	349.75	176.66	5.33
10-Apr-12	18	57.87																																																						
10-Apr-12	18	23.61	stroh 5434	117	NA	1	2	0			277	10	<LOD	20	<LOD	60	259	11	<LOD	102	<LOD	295	<LOD	26	<LOD	11	8420	133	<LOD	20	<LOD	46	169	43	<LOD	0	407	37	<LOD	9	34	2	<LOD	94	<LOD	4	<LOD	86	77	3	2754	342	249	4
10-Apr-12	18	19.79	embree 5444	110	NA	1	2	6			209.29	9.86	6.35	6.13	31.3	22.71	231.35	12.35	44.65	52.13	ND		14.22	12.62	1.66	4.76	14808.35	226.85	19.97	8.05	-98.21	17.39	62.96	61.64	ND		188.38	39.66	-1.83	3.5	52.92	2.9	17.84	36.52	-2.05	1.37	21.8	33.22	101.3	3.81	1777.35	326.72	235.66	5.35
10-Apr-12	19	52.33																																																						
10-Apr-12	19	23.03	stroh 5434	117	NA	1	2	0			1479	30	<LOD	58	<LOD	78	1707	37	<LOD	189	<LOD	485	<LOD	56	<LOD	19	31281	417	167	16	<LOD	61	440	100	<LOD	0	370	55	<LOD	11	24	2	<LOD	124	<LOD	7	<LOD	115	264	6	2301	504	153	5
10-Apr-12	19	21.91	embree 5444	110	NA	1	2	8			402.1	14.85	34.83	9.43	-56.02	24.27	461.7	18.98	81.39	57.74	ND		-30.21	11.18	8.46	6.03	13634.43	236.08	30.47	9.35	-179.95	18.71	102.67	65.68	ND		370.04	50.14	3.15	3.86	35.52	2.76	7.21	38.3	-2.03	1.69	42.83	35.18	77.17	3.73	1329.83	325.04	179.18	5.19
10-Apr-12	20	20.07	wilder_5420	110	NA	1	1	4			565.93	16.87	<LOD	37.23	<LOD	69.07	620.01	21.06	<LOD	148.86	<LOD	766.88	<LOD	37.31	<LOD	14.72	12726.99	214.72	38.1	9.58	<LOD	48.65	<LOD	184.61	<LOD	0	342.81	45.46	<LOD	10.88	30.26	2.53	<LOD	110.62	<LOD	5.2	<LOD	106.72	90.21	3.77	<LOD	742.28	158.21	4.7
10-Apr-12	20	25.06	stroh 5434	117	NA	1	2	0			1354	29	70	19	<LOD	78	1494	35	<LOD	171	548	173	<LOD	54	<LOD	22	30228	416	193	16	<LOD	62	<LOD	296	<LOD	0	373	55	19	4	19	2	<LOD	125	<LOD	8	<LOD	115	192	6	<LOD	1486	90	4
10-Apr-12	20	20.1	embree 5444	110	NA	1	2	8			502.43	15.06	11.8	9.13	-37.66	22.21	429.67	16.57	-48.68	43.98	ND		-1.37	10.9	-7.3	4.36	11510.54	190.58	43.94	9.04	-151.78	16.99	38.94	54.13	ND		263.1	40.3	-1.3	3.4	28.12	2.31	35.39	35.84	-3.12	1.51	-9.22	32.24	76.33	3.35	1040.46	286.81	165.23	4.53
10-Apr-12	21	20.46	wilder_5420	110	NA	1	1	4			479.24	15.1	<LOD	33.43	<LOD	70.48	635.84	20.83	<LOD	159.76	<LOD	753.94	<LOD	38.22	<LOD	15.79	11360.19	194.54	45.54	9.72	<LOD	48.71	<LOD	173.86	<LOD	0	281.04	41.99	<LOD	11.18	33.8	2.55	<LOD	114.88	<LOD	5.14	<LOD	109.79	106.23	3.95	853.19	247.6	268.31	5.81
10-Apr-12	21	23.49	stroh 5434	117	NA	1	2	0			1514	33	<LOD	63	<LOD	83	1723	40	<LOD	201	<LOD	535	<LOD	61	<LOD	22	36349	504	172	17	<LOD	66	748	118	<LOD	0	371	61	19	4	27	3	<LOD	134	<LOD	9	<LOD	123	233	6	2568	560	102	4
10-Apr-12	21	21.61	embree 5444	110	NA	1	2	8			356.3	14.15	7.67	8.67	-67.49	25.16	267.19	14.71	0.61	54.42	ND		-3.42	13.13	2.79	5.54	14442.9	248.76	25.87	9.34	-75.23	19.55	83.33	68.04	ND		421.02	52.72	0.44	3.93	46.03	3.07	79.48	40.89	-5.22	1.4	1.38	36.76	83.64	3.91	2681.53	383.93	224.57	5.82
10-Apr-12	22	18.95	wilder_5420	110	NA	1	1	6			466.21	15.18	<LOD	34.06	<LOD	71.45	464.11	18.06	<LOD	172.36	<LOD	825.76	<LOD	40.98	<LOD	16.21	14534.98	232.96	44.44	9.86	<LOD	49.65	<LOD	194.17	<LOD	0	462.43	50.55	<LOD	11.49	43.01	2.83	<LOD	115.04	<LOD	5.8	<LOD	110.99	89.58	3.74	1638.53	286.69	291.82	6.15
10-Apr-12	22	22.9	stroh 5434	117	NA	1	2	2			1128	23	<LOD	46	<LOD	67	1274	28	<LOD	139	<LOD	371	<LOD	44	<LOD	17	21034	279	152	13	<LOD	53	414	75	<LOD	0	297	43	20	3	21	2	<LOD	103	<LOD	6	<LOD	96	133	4	<LOD	1100	102	4
10-Apr-12	22	22.5	embree 5444	110	NA	3	2	30			216.16	11.63	26.7	7.61	-53.9	26.18	258.76	15.1	-8.98	52.54	ND		-10.43	12.19	5.55	5.91	9823.52	201.74	17.88	9.26	-120.4	20.17	77.02	59.6	ND		491.16	55.57	5.13	4.25	37.58	2.96	5.32	42.28	-1.09	1.71	19.18	38.25	75.66	3.92	2828.59	395.63	286.48	6.84
10-Apr-12	23	19.72	wilder_5420	110	NA	1	1	6			393.27	13.22	<LOD	29.93	<LOD	67.87	329.03	14.46	<LOD	132.83	<LOD	851.62	<LOD	36.11	<LOD	14.67	13007.5	205.48	25.57	8.46	<LOD	47.13	<LOD	174.14	<LOD	0	374.22	44.12	<LOD	10.9	42.95	2.68	<LOD	111.05	<LOD	5.17	<LOD	106.47	96.54	3.67	1609.64	283.94	303.83	5.97
10-Apr-12	23	22.74	stroh 5434	117	NA	1	2	2			1453	28	<LOD	55	<LOD	72	1692	35	183	59	<LOD	449	<LOD	53	<LOD	21	29766	382	121	13	<LOD	57	471	93	<LOD	0	587	58	14	4	25	2	<LOD	115	<LOD	8	<LOD	106	202	5	2247	469	132	4
10-Apr-12	23	22.06	embree 5444	110	NA	3	2	30			252.76	12.1	-4.08	7.3	5.04	25.31	271.35	14.95	-57.83	48.67	ND		-13.88	11.24	0.14	5.29	8959.57	184.06	18.75	8.98	-110.64	19.56	58.2	55.06	ND		304.6	46.3	5.25	4.1	36.11	2.83	-5.12	41.35	-1.57	1.63	89.67	37.93	77.48	3.83	1784.64	365.33	283.26	6.58
10-Apr-12	24	23.06	wilder_5420	115	NA	1	1	0			603.16	21.1	<LOD	46.39	<LOD	87.76	637.83	25.89	<LOD	224.2	<LOD	1129.84	<LOD	54.85	<LOD	20.49	16437.73	308.7	135.13	16.35	<LOD	62.6	<LOD	251.66	<LOD	0	270.48	54.8	<LOD	13.81	16.46	2.67	<LOD	146.6	<LOD	7.17	<LOD	141.03	278.99	7.89	<LOD	1061.69	121.21	5.48
10-Apr-12	24	22.74	stroh 5434	117	NA	1	2	2			1000	22	<LOD	43	<LOD	68	1156	27	<LOD	137	<LOD	423	<LOD	45	<LOD	17	23580	304	99	12	<LOD	53	474	80	<LOD	0	362	46	13	3	20	2	<LOD	106	<LOD	6	<LOD	99	152	4	1630	422	125	4
10-Apr-12	24	20.06	embree 5444	110	NA	3	2	30			234.71	10.68	-2.16	6.47	-22.41	23.6	271.2	13.64	31.55	51.36	ND		2.83	11.5	-5.29	4.39	10532.93	185.88	17.41	8.16	-83.38	17.92	31.51	53.68	ND		407.73	47.11	7.07	3.79	42.08	2.72	58.49	37.95	0.82	1.65	42.35	34.26	80.45	3.54	2257.7	357.08	334.1	6.54
10-Apr-12	25	21.81	wilder_5420	115	NA	1	1	0			554.47	18.73	<LOD	39.8	<LOD	82.13	1782.33	43	490.16	87.55	<LOD	894.46	106.22	20.86	<LOD	18.96	20728.33	337.16	1106.96	37.89	<LOD	57.78	<LOD	262.88	<LOD	0	688.23	68.47	<LOD	12.26	20.88	2.6	<LOD	134.13	<LOD	5.91	<LOD	130.67	247.73	6.86	1212.3	305.2	81.06	4.51
10-Apr-12	25	22.16	stroh 5434	117	NA	1	2	4			676	16	<LOD	33	<LOD	64	737	20	<LOD	120	<LOD	335	<LOD	35	<LOD	14	15294	208	64	9	<LOD	50	287	60	<LOD	0	284	38	<LOD	9	33	2	<LOD	99	<LOD	6	<LOD	92	107	3	2381	371	161	4
10-Apr-12	25	23.03	embree 5444	110	NA	3	3	30			249.82	13.03	8.75	8.11	-34.67	27.46	276.16	16.35	-2.43	58.71	ND		-6.49	13.44	-0.25	5.72	10312.06	218.21	42.71	11.19	-107.5	21.3	120.15	64.61	ND		343.67	52.9	-0.72	4.34	34.44	3.02	-22.33	44.29	-2.7	1.65	7.53	39.93	89.6	4.41	1180.91	383.09	241.95	6.62
10-Apr-12	26	22.38	wilder_5420	115	NA	1	1	0			816.22	24.52	<LOD	52.3	<LOD	87.02	1276.8	37.19	<LOD	264.13	<LOD	1291.19	82.52	21.7	<LOD	18.64	31314.53	486.95	210.7	19.04	<LOD	61.15	<LOD	334.88	<LOD	0	681.68	75.9	15.83	4.58	15.5	2.63	<LOD	143.23	<LOD	7.2	<LOD	137.8	242.21	7.21	1214.83	395.44	129.22	5.46
10-Apr-12	26	22.25	stroh 5434	117	NA	1	2	4			860	18	<LOD	37	<LOD	60	866	21	<LOD	111	<LOD	293	<LOD	33	<LOD	13	15490	204	58	9	<LOD	47	289	59	<LOD	0	266	36	9	3	22	2	124	31	<LOD	5	<LOD	87	96	3	907	300	127	3
10-Apr-12	26	19.87	embree 5444	110	NA	3	3	30			218.68	9.35	8.91	5.86	3.67	20.26	304.64	13.07	50.75	41.54	ND		-12.09	8.45	-5.82	3.82	6235.8	122.41	12.11	6.76	-190.7	15.66	62.64	38.95	ND		237.97	34.55	6.76	3.24	23.41	2.02	-0.97	31.78	-1.52	1.26	-18.62	28.91	104.42	3.58	1016.89	235.32	149.91	4.12
10-Apr-12	27	54.99																																																						
10-Apr-12	27	22.8	stroh 5434	117	NA	1	2	4			941	21	<LOD	42	<LOD	66	1313	29	<LOD	133	<LOD	350	<LOD	41	<LOD	17	20356	270	126	12	<LOD	52	259	72	<LOD	0	336	44	15	3	27	2	<LOD	103	<LOD	5	<LOD	94	123	4	<LOD	1060	134	4
10-Apr-12	27	21.34	embree 5444	110	NA	3	3	30			280.52	12.26	9.52	7.61	-36.82	24.63	230.41	13.33	-16.79	49.2	ND		-6.61	11.6	-0.4	5.06	9947.3	189.44	19.32	8.65	-92.89	18.89	80.24	55.96	ND		499.28	52.23	3.34	3.89	40.9	2.85	-24.18	39.83	-1.08	1.63	-55.8	36.08	98.85	4.08	2127.57	350.88	261.05	6.1
10-Apr-12	28	52.49																																																						
10-Apr-12	28	22.18	stroh 5434	117	NA	1	2	6			695	16	<LOD	34	<LOD	61	734	19	<LOD	117	<LOD	321	<LOD	33	<LOD	15	14504	197	74	9	<LOD	47	214	57	<LOD	0	380	40	9	3	21	2	<LOD	93	<LOD	5	<LOD	86	86	3	1595	337	130	4
10-Apr-12	28	21.01	embree 5444	110	NA	3	4	30			231.49	10.91	5.79	6.75	-13.22	24.01	294.46	14.58	4.23	48.44	ND		-8.48	11.08	-4.67	4.57	9440.94	178.54	5.65	7.65	-87.2	18.42	80.06	53.32	ND		320.17	44.31	2.25	3.78	43.41	2.83	50.24	39.28	-0.52	1.59	18.62	35.2	73.43	3.51	1840.13	326.79	265.67	5.97
10-Apr-12	29	21.66	wilder_5420	115	NA	1	1	2			1125.67	26.25	<LOD	54.55	<LOD	75.64	1603.84	37.82	<LOD	202.99	<LOD	875.64	<LOD	46.33	<LOD	18.34	23090.44	344.55	203.66	16.55	<LOD	52.81	<LOD	265.66	<LOD	0	200.72	48.32	<LOD	11.67	15.96	2.34	<LOD	119.24	<LOD	6.7	<LOD	114.53	125.01	4.65	859.4	284.55	87.65	4.17
10-Apr-12	29	23.13	stroh 5434	117	NA	1	2	6			609	14	<LOD	29	<LOD	59	506	15	<LOD	102	<LOD	304	<LOD	34	<LOD	12	13068	173	34	8	<LOD	45	362	53	<LOD	0	318	35	17	3	34	2	<LOD	91	<LOD	5	<LOD	84	99	3	1139	307	191	4
10-Apr-12	29	19.67	embree 5444	110	NA	3	4	30			284.22	11.04	2.28	6.75	46.11	21.88	353.47	14.69	31.81	45.76	ND		22.07	11.35	11.19	5.34	9381.62	163.4	22.81	7.91	-135.84	16.64	6.46	47.71	ND		272.12	39.06	1.21	3.43	33.26	2.37	-16.16	34.89	-3.76	1.26	27.49	31.38	74.99	3.25	918.31	263.6	242.16	5.24
10-Apr-12	30	20.85	wilder_5420	115	NA	1	1	2			1144.35	28.71	<LOD	59.81	<LOD	82.45	1608.32	41.02	<LOD	231.91	<LOD	1003.41	117.77	21.64	<LOD	19.77	28925.97	441.96	176.76	17.36	<LOD	57.69	<LOD	307.36	<LOD	0	218.96	55.91	<LOD	12.68	15	2.53	<LOD	132.97	<LOD	7.11	<LOD	128.16	160.03	5.65	1202.66	332.24	100.18	4.76

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

In-Situ XRF Data

Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment		Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
10-Apr-12	30	22.18	stroh 5434	117	NA	1	2	6			823	17	<LOD	35	<LOD	59	703	18	<LOD	100	<LOD	279	<LOD	35	<LOD	13	11916	169	52	9	<LOD	46	285	52	<LOD	0	173	31	15	3	22	2	<LOD	91	<LOD	6	<LOD	83	92	3	<LOD	824	134	3
10-Apr-12	30	22.99	embree 5444	110	NA	3	4	30			280.6	13.79	4.73	8.47	-52.11	27.6	378.01	19.03	-107.22	50.23	ND		16.68	14.34	2.37	6.06	9720.85	210.07	17.45	9.9	-105.62	21.33	45.54	61.52	ND		217.64	46.36	6.85	4.42	38.72	3.15	40.53	45.85	-1.73	1.78	17.21	40.5	74.11	4.08	1507.42	394.24	234.62	6.51
10-Apr-12	31	21.36	wilder_5420	115	NA	1	1	2			1233.74	27.58	<LOD	57.22	<LOD	74.72	1469.25	35.76	<LOD	195.88	<LOD	944.8	<LOD	53.14	<LOD	19.47	27744.4	392.86	176.71	15.71	<LOD	52.37	<LOD	287.48	<LOD	0	260.08	52.09	<LOD	11.57	19.53	2.46	<LOD	119.29	<LOD	7.47	<LOD	115.3	141.25	4.9	<LOD	871.26	106.53	4.42
10-Apr-12	31	21.72	stroh 5434	115	NA	3	2	30			252	9	<LOD	20	<LOD	61	173	9	<LOD	98	<LOD	308	<LOD	30	<LOD	12	10316	152	<LOD	21	<LOD	47	210	47	<LOD	0	378	37	<LOD	9	43	2	<LOD	96	<LOD	4	<LOD	89	71	3	2158	336	251	4
10-Apr-12	31	20.39	embree 5444	117	NA	1	1	0			1207.2	27.81	5.8	15.63	71.47	25.67	1012.14	29.58	29.23	64.53	ND		14.76	16.53	-5.61	6.21	25040.08	371.86	241.42	18.03	-65.65	19.96	84.2	89.03	ND		126.02	47.55	6.21	3.87	23.15	2.6	116.25	42.65	-5.69	2.16	120.34	38.23	192.3	5.83	1457.69	361.24	78.53	4.2
10-Apr-12	32	27.81	wilder_5420	115	NA	1	1	2			107.06	28.39	<LOD	57.81	<LOD	262.88	<LOD	78.55	<LOD	534.36	<LOD	1618.59	<LOD	107.64	<LOD	72.48	2201.54	275.55	<LOD	130.22	<LOD	189.04	<LOD	270.55	<LOD	0	<LOD	274.65	<LOD	47.97	<LOD	22.48	<LOD	374.32	<LOD	11.56	<LOD	371.58	<LOD	31.12	<LOD	1477.02	41.16	13.05
10-Apr-12	32	24.33	stroh 5434	115	NA	3	2	30			270	11	<LOD	23	<LOD	68	209	11	<LOD	134	<LOD	395	<LOD	37	<LOD	14	13918	205	<LOD	24	<LOD	53	269	60	<LOD	0	511	47	<LOD	10	54	3	<LOD	110	<LOD	5	<LOD	101	76	3	2586	420	274	5
10-Apr-12	32	21.02	embree 5444	117	NA	1	1	0			1377.97	31	40.84	17.44	-20.22	26.5	1622.42	39.77	28.31	68.81	ND		29.36	18.05	9.15	7.85	25708.23	390.73	186.73	17.04	-95.03	20.46	108.96	93.14	ND		184.56	52.21	10.82	4.05	21.52	2.64	13.64	42.65	-2.72	2.55	2.44	39.2	159.84	5.48	877.93	378.62	76.56	4.25
10-Apr-12	33	20.27	wilder_5420	115	NA	1	1	4			1881.99	36.23	<LOD	72.12	<LOD	77.32	2118.91	45.07	<LOD	251.42	<LOD	1138.67	107.06	22.82	<LOD	21.32	45029.66	582.01	248.42	18.39	<LOD	53.52	<LOD	364.66	<LOD	0	376.91	64.22	<LOD	11.82	20.45	2.61	<LOD	124.11	<LOD	8.89	<LOD	120	128.49	4.78	<LOD	1042.21	143.16	4.94
10-Apr-12	33	22.41	stroh 5434	115	NA	3	2	30			327	11	<LOD	24	<LOD	65	198	10	<LOD	115	<LOD	385	<LOD	36	<LOD	14	13670	197	<LOD	22	<LOD	51	245	58	<LOD	0	609	48	10	3	45	2	<LOD	103	<LOD	5	<LOD	95	76	3	2371	403	284	5
10-Apr-12	33	22.18	embree 5444	117	NA	1	1	0			1223.12	30.54	35.91	17.38	-5.7	28.09	1245.05	36.1	135.44	75.25	ND		19.74	18.07	-8.34	6.74	24042.1	393.88	186.7	17.89	-67.79	21.8	83.82	94.96	ND		249.01	56.85	5.53	4.23	13.47	2.5	60.5	45.52	-0.91	2.67	36.79	41.26	153.63	5.68	1038.56	365.86	77.11	4.5
10-Apr-12	34	18.39	wilder_5420	115	NA	1	1	4			1583.96	30.8	<LOD	63.05	<LOD	70.99	2287.94	44.72	<LOD	210.22	<LOD	1021.1	<LOD	57.53	<LOD	21.01	39214.93	492.34	217.17	16.39	<LOD	49.77	<LOD	328.41	<LOD	0	480.43	61.31	<LOD	11.07	18.69	2.38	<LOD	111.29	<LOD	8.04	<LOD	107.41	124.45	4.45	<LOD	923.7	129.42	4.5
10-Apr-12	34	22.2	stroh 5434	115	NA	3	2	2			216	9	<LOD	19	<LOD	62	197	10	<LOD	105	<LOD	303	<LOD	32	<LOD	13	10471	158	<LOD	22	<LOD	48	237	49	<LOD	0	425	39	12	3	42	2	<LOD	97	<LOD	4	<LOD	89	77	3	2428	345	265	5
10-Apr-12	34	21.75	embree 5444	117	NA	1	1	2			1108.06	26.98	37.96	15.57	20.08	25.36	1354.07	35.45	46.59	65.55	ND		-10.21	15.54	1.83	6.94	22661.83	352.54	167.22	15.99	-164.74	19.8	166.36	87.62	ND		281.17	53.55	5.41	3.94	10.8	2.22	-71.12	40.82	0.96	2.52	-37.99	37.69	158.98	5.4	416.56	326.18	71.44	4.13
10-Apr-12	35	18.91	wilder_5420	115	NA	1	1	4			1043.35	22.95	<LOD	48.83	<LOD	68.07	1182.9	29.01	<LOD	168.76	<LOD	784.8	52.11	15.55	<LOD	16.81	19925.22	282.47	129.12	12.92	<LOD	47.13	<LOD	223.57	<LOD	0	219.9	43.17	11.54	3.6	21.41	2.27	<LOD	104.73	<LOD	6.62	<LOD	102.13	103.73	3.9	<LOD	738.51	102.62	3.94
10-Apr-12	35	23.54	stroh 5434	115	NA	3	2	2			243	9	<LOD	19	<LOD	60	169	9	<LOD	97	<LOD	303	<LOD	31	<LOD	13	10015	149	<LOD	21	<LOD	46	232	47	<LOD	0	684	45	<LOD	9	45	2	<LOD	94	<LOD	4	<LOD	87	67	3	2481	341	256	5
10-Apr-12	35	20.42	embree 5444	117	NA	1	1	2			673.57	17.13	16.87	10.24	-5.59	20.61	936.69	24.26	37.12	45.34	ND		-2.64	11.1	-1.56	5	10752.39	177.19	98.75	10.94	-260.29	15.95	195.99	53.38	ND		106.76	32.78	7.19	3.27	10.76	1.77	52.89	31.36	-1.25	1.68	-64.27	28.74	86.04	3.42	131.39	211.7	54.14	3.15
10-Apr-12	36	19.12	wilder_5420	115	NA	1	1	6			1097.02	22.88	55.97	16.42	<LOD	64.18	6337.03	82.22	<LOD	178.11	<LOD	830.12	<LOD	46.74	<LOD	21.21	24126.05	314.11	150.42	13.73	<LOD	44.58	<LOD	235.7	<LOD	0	198.74	43.38	<LOD	10.15	10.37	1.86	<LOD	99.85	<LOD	6.47	<LOD	96.36	78.27	3.34	<LOD	728.65	79.97	3.52
10-Apr-12	36	22.28	stroh 5434	115	NA	3	2	2			283	10	<LOD	22	<LOD	64	235	11	<LOD	109	<LOD	331	<LOD	33	<LOD	13	11929	176	<LOD	22	<LOD	49	227	53	<LOD	0	454	42	<LOD	9	45	2	<LOD	103	<LOD	4	<LOD	95	70	3	2533	370	266	5
10-Apr-12	36	23.47	embree 5444	117	NA	1	1	2			1150.31	32.43	88.03	19.1	-78.63	30.07	1506.76	44.35	-97.1	70.73	ND		21.9	20.3	-1.27	8.15	27074.29	475.75	217.16	20.94	-158.98	23.56	11.47	109.38	ND		351.2	67.35	2.74	4.68	12.02	2.69	60.93	47.41	2.47	3.12	-8.92	43.02	141.63	6.02	1737.16	452.21	88.18	5.12
10-Apr-12	37	21.42	wilder_5420	115	NA	1	1	6			1547.46	33.11	<LOD	67.62	<LOD	77.96	4278.16	73.36	<LOD	228.16	<LOD	1162.8	<LOD	61.45	<LOD	26.56	36629.89	510.17	204.19	17.74	<LOD	54.65	<LOD	344.78	<LOD	0	247.41	58.45	<LOD	12.13	13.58	2.42	<LOD	124.08	<LOD	8.3	<LOD	120.77	104.35	4.49	<LOD	1052.85	101.77	4.52
10-Apr-12	37	22.35	stroh 5434	115	NA	3	2	4			240	9	<LOD	20	<LOD	63	168	9	<LOD	108	<LOD	336	<LOD	31	<LOD	11	9866	154	<LOD	20	<LOD	48	187	48	<LOD	0	355	38	10	3	38	2	<LOD	100	<LOD	4	<LOD	92	65	3	1582	345	233	4
10-Apr-12	37	24.5	embree 5444	117	NA	1	1	2			1066.87	34.41	41.37	19.88	-20.41	33.83	1533.62	49.68	172.53	94.05	ND		-20.86	19.32	18.24	10.49	24242.35	487.56	158.95	20.74	-103.98	26.67	51.33	115.38	ND		597.32	84.77	14.83	5.38	15.64	3.14	-3.18	54.99	-2.42	3.01	-90.52	50	128.14	6.39	797.05	423.02	57.78	5.14
10-Apr-12	38	18.16	wilder_5420	115	NA	1	1	6			1476.08	29.72	<LOD	60.91	<LOD	70.18	8293.7	109.68	<LOD	221.38	<LOD	995.4	<LOD	61.45	<LOD	25.47	38302.25	486.91	280.8	18.89	<LOD	49.54	<LOD	325.77	<LOD	0	264.72	55.51	<LOD	11.25	8.24	2.02	<LOD	108.15	<LOD	7.89	<LOD	106.41	88.37	3.84	<LOD	903.83	107.05	4.21
10-Apr-12	38	22.42	stroh 5434	115	NA	3	2	4			243	10	<LOD	20	<LOD	62	169	9	<LOD	106	<LOD	330	<LOD	31	<LOD	13	10744	162	<LOD	21	<LOD	48	198	50	<LOD	0	449	41	<LOD	9	44	2	<LOD	97	<LOD	4	<LOD	90	68	3	2099	354	235	5
10-Apr-12	38	21.51	embree 5444	117	NA	1	1	4			684.08	19.08	33.25	11.56	1.41	23.21	1026.29	28.16	31.66	53.97	ND		-2.55	13.29	-7.7	5.22	15622.39	251.29	81.08	11.6	-234.58	17.89	161.62	68.79	ND		235.92	44.47	4.58	3.69	31.69	2.61	97.11	36.27	-3.48	1.76	24.54	33.01	101.36	4.07	1373.67	309.35	118.37	4.34
10-Apr-12	39	21.51	wilder_5420	115	NA	1	1	10			317.77	12.7	37.13	9.99	<LOD	71.19	505.85	19.15	<LOD	148.19	<LOD	813.49	<LOD	36.5	<LOD	13.21	13709.55	227.64	43.84	9.89	<LOD	49.77	<LOD	195.1	<LOD	0	186.11	40.18	<LOD	11.5	45.74	2.92	<LOD	115.46	<LOD	4.7	<LOD	110.44	80.64	3.63	<LOD	777.21	200.53	5.23
10-Apr-12	39	24.39	stroh 5434	105	NA	1	2	0			697	17	<LOD	35	<LOD	64	578	18	<LOD	100	<LOD	296	<LOD	36	<LOD	16	14802	210	46	9	<LOD	50	406	62	<LOD	0	288	38	11	3	31	2	<LOD	102	<LOD	5	<LOD	94	102	3	1752	334	158	4
10-Apr-12	39	22.85	embree 5444	117	NA	1	1	4			824.59	23.79	31.97	14.11	-39.38	26.51	1268.59	35.73	190.39	71.62	ND		8.92	16.43	-2.5	6.59	17945.79	311.68	261.63	19.74	-212.7	20.37	212.24	82.9	ND		163.81	48.89	6.52	4.14	15.6	2.43	46.33	40.36	-0.3	2.32	-32.39	37.21	99.88	4.55	571.26	310.34	71.13	4.22
10-Apr-12	40	18.81	wilder_5420	115	NA	1	1	10			785.41	18.93	<LOD	41.08	<LOD	64.91	880.66	23.9	<LOD	170.27	<LOD	772.12	<LOD	39.78	<LOD	14.49	19420.74	268.76	116.14	11.95	<LOD	45.22	<LOD	213.12	<LOD	0	242.2	42.51	<LOD	10.21	26.18	2.29	<LOD	101.51	<LOD	5.39	<LOD	98.09	69.93	3.2	915.15	251.79	128.65	4.06
10-Apr-12	40	22.96	stroh 5434	105	NA	1	2	0			573	17	<LOD	35	<LOD	75	468	18	<LOD	156	<LOD	465	<LOD	43	<LOD	17	22909	315	48	10	<LOD	58	358	82	<LOD	0	469	52	14	4	51	3	<LOD	119	<LOD	6	<LOD	110	130	4	3526	507	261	6
10-Apr-12	40	23.5	embree 5444	117	NA	1	1	4			768.79	23.7	14.72	13.95	-22.2	27.27	1037.64	33	-31.75	56.4	ND		-22.17	12.4	-3.3	6.52	12944.17	258.3	81.76	13.52	-258.46	20.86	9.69	70.78	ND		155.18	46.01	9.03	4.32	13.96	2.45	25.7	43.27	-4.43	2.02	-70.44	38.72	75.79	4.21	414.56	309.91	60.89	4.18
10-Apr-12	41	20.38	wilder_5420	115	NA	1	1	10			996.01	21.96	<LOD	46.99	<LOD	65.94	1312.33	30.24	<LOD	170.94	1003.89	302.64	59.84	15.71	<LOD	15.33	23995.57	317.69	145.86	13.27	<LOD	46.22	<LOD	236.75	<LOD	0	235.58	44.82	<LOD	10.57	23.36	2.27	<LOD	103.48	<LOD	5.8	<LOD	98.82	77.17	3.39	<LOD	785.94	133.52	4.2
10-Apr-12	41	23.4	stroh 5434	105	NA	1	2	0			726	18	47	13	<LOD	66	811	22	<LOD	114	<LOD	328	<LOD	35	<LOD	15	13116	203	71	10	<LOD	52	341	62	<LOD	0	334	42	19	3	23	2	<LOD	101	<LOD	5	<LOD	93	101	4	<LOD	968	128	4
10-Apr-12	41	23.33	embree 5444	115	NA	1	3	0			822.51	26.13	54.8	15.76	-22.57	29.8	1071.04	35.66	162.19	78.46	ND		-29.96	16.59	-0.81	7.4	19384.26	362.96	138.72	17.17	-87.29	23.37	284.88	95.38	ND		155.27	54.14	-9.46	4.39	15.14	2.7	-1.42	48.89	-2.83	2.41	54.81	44.22	178.36	6.57	1672.18	401.82	81.65	4.97
10-Apr-12	42	20.72	wilder_5420	115	NA	1	1	10			988.42	22.25	<LOD	46.99	<LOD	67.05	979.61	26.12	<LOD	154.73	<LOD	877.89	<LOD	44.26	<LOD	18.18	21635.35	299.71	107.32	12.09	<LOD	46.71	<LOD	235.33	<LOD	0	174.64	42	<LOD	10.99	26.4	2.41	<LOD	104.71	<LOD	6.86	<LOD	100.59	128.68	4.3	<LOD	794.35	157.56	4.61
10-Apr-12	42	23.12	stroh 5434	105	NA	1	2	0			714	18	<LOD	37	<LOD	65	616	19	<LOD	114	<LOD	352	<LOD	40	<LOD	17	16735	236	77	10	<LOD	51	368	67	<LOD	0	443	46	17	3	34	2	<LOD	101	<LOD	5	<LOD	93	118	4	1928	379	172	4
10-Apr-12	42	22.68	embree 5444	115	NA	1	3	0			819.55	23.68	25.57	13.99	-60.12	26.16	915.7	29.7	37.08	61.88	ND		-9.77	14.68	-1.15	6.48	15430.14	280.06	119.18	14.67	-184.52	20.51	199.39	77.22	ND		156.32	46.44	10.14	4.17	17.45	2.51	71.2	41.72	-1.58	2.22	72.91	37.97	138.15	5.27	822.32	336.14	71.71	4.29
10-Apr-12	43	19.11	wilder_5420	115	NA	1	1	10			699.86	17.42	<LOD	37.88	<LOD	65.39	796.69	22.16	<LOD	171.28	<LOD	813.17	<LOD	41.18	<LOD	16.05	19746.19	266.24	79.35	10.49	<LOD	44.95	<LOD	211.78	<LOD	0	257.57	42.5	<LOD	10.33	36.59	2.49	<LOD	104.24	<LOD	5.7	<LOD	99.57	93.95	3.54	923.21	258.21	187	4.64
10-Apr-12	43	22.84	stroh 5434	105	NA	1	2	2			390	12	29	9	<LOD	60	335	13	<LOD	101	<LOD	332	<LOD	33	<LOD	14	14224	196	56	9	<LOD	47	175	56	<LOD	0	313	38	10	3	28	2	<LOD	91	<LOD	5	<LOD	85	77	3	1037	329	159	4
10-Apr-12	43	22.95	embree 5444	115	NA	1	3	0			750.82	23.01	36.38	13.83	-28.23	26.91	976.64	31.42	114.69	67.79	ND		9.68	15.83	2.71	6.9	15171.19	282.59	158.94	16.57	-160.77	21.08	160.58	77.55	ND		145.93	47.14	6.67	4.21	12.34	2.36	22.7	42.25	-0.56	2.29	78.68	38.75	116.27	4.96	869.01	346.41	62.12	4.2
10-Apr-12	44	20.35	wilder_5420	105	NA	1	3	0			852.13	20.46	<LOD	43.38	<LOD	68.48	812.1	23.59	<LOD	178.23	<LOD	879.06	<LOD	39.48	<LOD	16.82	19515.38	278.7	65.13	10.43	<LOD	47.53	<LOD	223.91	<LOD	0	399.51	49.38	<LOD	11.05	39.37	2.71	<LOD	109.06	<LOD	5.56	<LOD	104.73	94.09	3.74	1658.49	295.43	240.69	5.48
10-Apr-12	44	23.29	stroh 5434	105	NA	1	2	2			434	13	<LOD	28	<LOD	61	371	14	<LOD	100	<LOD	274	<LOD	31	<LOD	13	9592	157	34	8	<LOD	48	258	50	<LOD	0	315	37	20	3	29	2	<LOD	92	<LOD	5	<LOD	85	77	3	914	287	139	4
10-Apr-12	44	21.64	embree 5444	115	NA	1	3	2			1000.19	25.22	43.14	14.78	-19.69	24.73	1106.45	31.41	2.92	61.51	ND		-25.48	14.63	-3.02	6.3	22252.72	345.28	193.67	16.62	-212.93	19.34	200.1	86.66	ND		171.09	48.24	9.29	3.98	18.12	2.42	-39.08	39.4	-3.18	2.18	19.75	35.89	108.08	4.48	667.54	326.04	95.43	4.34
10-Apr-12	45	21.23	wilder_5420	105	NA	1	3	0			741.66	20.55	<LOD	43.58	<LOD	76.06	682.42	23.33	<LOD	194.62	<LOD	1110.02	<LOD	49.59	<LOD	19.06	22343.36	333.3	83.24	12.23	<LOD	53.15	<LOD	255.65	<LOD	0	740.09	65.29	<LOD	12.22	51.42	3.24	<LOD	123.36	<LOD	6.77	<LOD	117.76	127.13	4.64	2119.16	362.81	304.47	6.71
10-Apr-12	45	24.09	stroh 5434	105	NA	1	2	2			389	14	<LOD	31	<LOD	73	347	16	<LOD	123	<LOD	390	<LOD	35	<LOD	17	13966	234	39	10	<LOD	57	274	68	<LOD	0	389	48	18	4	41	3	<LOD	113	<LOD	6	<LOD	104	84	4	1269	398	203	5
10-Apr-12	45	22.35	embree 5444	115	NA	1	3	2			680.87	22.05	50.4	13.54	-6.42	28.34	793.63	28.38	99.78	71.73	ND		12.9	16.82	10.21	7.46	21203.84	361.95	152.95	16.61	-75.45	21.87	7.45	89.06	ND		303.23	57.64	6.72	4.42	43.23	3.38	36.27	45.5	0.8	2.41	-19.68	41.14	99.47	4.69	2379.22	423.41	180.67	5.9
10-Apr-12	46	20.84	wilder_5420	105	NA	1	3	0			1071.17	24.69	<LOD	51.31	<LOD	73.34	1164.41	30.44	<LOD	193.56	<LOD	939.42	55.07	16.46	<LOD	17.85	21999.07	321.66	127.51	13.67	<LOD	51.14	<LOD	244.24	<LOD	0	452.17	55.04	<LOD	11.74	40.96	2.94	<LOD	118.64	<LOD	7.26	<LOD	113.56	98.67	4.06	1416.75	308.86	238.19	5.78
10-Apr-12	46	22.92	stroh 5434	105	NA	1	2	4			424	13	<LOD	29	<LOD	67	341	14	<LOD	136	<LOD	368	<LOD	39	<LOD	13	17621	243	<LOD	25	<LOD	52	287	68	<LOD	0	334	43	14	3	44	3	<LOD	105	<LOD	5	<LOD	97	104	4	2277	399	247	5
10-Apr-12	46	23.18	embree 5444	115	NA	1	3	2			1031.29	29.13	80.7	17.38	-113.59	28.67	1172.13	36.81	-19.14	75.72	ND		-23.98	18.68	9.19	8.26	27351.51	458.89	189.72	18.91	-196.45	22.32	335.36	109.66	ND		95.81	54.72	17.97	4.67	14.36	2.65	63.47	45.13	-4.21	2.47	40.72	41.05	146.86	5.87	906.64	445.61	87.31	4.9
10-Apr-12	47	19.29	wilder_5420	105	NA	1	3	2			504.64	15.8	<LOD	35.04	<LOD	70.97	581.51	20.28	<LOD	166.9	<LOD	876.16	<LOD	43.4	<LOD	14	17473.93	264.22	73.19	11.04	<LOD	49.09	<LOD	220.14	<LOD	0	371.83	48.6	<LOD	11.27	44.43	2.87	<LOD	113.48	<LOD	5.09	<LOD	109.01	107.04	4.04	1069.36	281.51	268.84	5.93
10-Apr-12	47	22.49	stroh 5434	105	NA	1	2	4			490	14	<LOD	29	<LOD	66	365	14	<LOD	132	<LOD	376	<LOD	39	<LOD	15	16433	225	27	8	<LOD	51	332	64	<LOD	0	458	45	13	3	51	3	<LOD	104	<LOD	5	<LOD	96	109	4	1982	391	284	5
10-Apr-12	47	21.3	embree 5444	115	NA	1	3	2			1065.56	25.65	61.44	15.1	13.5	24.32	1244.81	32.89	57.49	68.15	ND		25.77	17.28	-4.81	6.23	28679.17	409.42	133.95	14.5	-187.26	19.16	50.85	93.87	ND		198.16	51.74	9.36	3.89	17.24	2.36	53.61	37.99	-4.91	2.1	56.37	35.29	117.99	4.58	262.08	333.4	79.2	4.06
10-Apr-12	48	19	wilder_5420	105	NA	1	3	2			536.84	15.93	<LOD	35.08	<LOD	69.03	481.25	17.99	<LOD	164.68	<LOD	856.85	<LOD	37.56	<LOD	18.05	16557.07	248.31	67.67	10.42	<LOD	48.16	<LOD	212.29	<LOD	0	319.61	45.37	<LOD	11.08	44.58	2.8	<LOD	109	<LOD	5.25	<LOD	105.3	95.07	3.75	1027.83	273.71	231.38	5.37
10-Apr-12	48	22.98	stroh 5434	105	NA	1	2	4			452	13	<LOD	29	<LOD	62	394	15	<LOD	104	<LOD	303	<LOD	32	<LOD	14	12582	186	42	8	<LOD	49	256	56	<LOD	0	234	35	12	3	33	2	<LOD	96	<LOD	5	<LOD	88	88	3	<LOD	888	171	4
10-Apr-12	48	21.77	embree 5444	115	NA	1	3	4			665.22	20.04	25.22	12.07	-100.27	25.68	714.51	24.67	106.25	65.64	ND		21	15.31	4.78	6.37	18300.05	299.34	70.43	12.01	-127.8	19.76	19.03	76.65	ND		299.19	51.83	1.04	3.99	33.8	2.85	37.69	40.86	0.04	2.13	2.51	37.16	88.4	4.1	1327.92	364.06	188.37	5.51
10-Apr-12	49	18.96	wilder_5420	105	NA	1	3	2			472.96	15.01	<LOD	33.15	<LOD	69.56	434.12	17.16	<LOD	172.83	<LOD	916.97	<LOD	40.22	<LOD	14.41	16307.48	247.31	50.24	9.86	<LOD	48.41	<LOD	206.81	<LOD	0	313.84	45.58	<LOD	11.11	47.11	2.87	<LOD	112.12	<LOD	4.98	<LOD	107.16	108.32	3.99	1118.02	288.88	236.39	5.47
10-Apr-12	49	23.82	jackson 5434	116	NA	1	4	0			1086	25	<LOD	51	<LOD	75	937	27	<LOD	143	<LOD	431	<LOD	48	<LOD	20	20382	308	119	14	<LOD	59	302	82	<LOD	0	437	53	14	4	15	2	<LOD	116	<LOD	7	<LOD	107	234	6	1633	444	95	4
10-Apr-12	49	18.64	embree 5444	115	NA	1	3	4			394.79	11.45	15.26	7.08	-24.57	17.82	489.73	15.24	2.63	36.61	ND		6.38	8.4	-6.61	3.62	8914.2	139.3	45.25	7.6	-298.84	13.85	-75.97	39.6	ND		93.17	27.04	9.85	2.91	16.88	1.69	16.62	27.15	-0.29	1.34	-46.32	25.04	47.77	2.4	564.87	203.12	66.32	2.86
10-Apr-12	50	19.91	wilder_5420	105	NA	1	3	4			456.45	14.91	<LOD	33.38	<LOD	68.61	421.48	17.12	<LOD	151.37	<LOD	847.12	<LOD	39.68	<LOD	13.66	17108.96	258.71	58.34	10.31	<LOD	47.59	<LOD	211.31	<LOD	0	303.42	45.33	<LOD	11.22	38.9	2.71	<LOD	107.06	<LOD	5.26	<LOD	102.42	92.91	3.77	1020.23	273.56	200.79	5.13
10-Apr-12	50	22.82	jackson 5434	116	NA	1	4	0			1439	28	<LOD	55	<LOD	72	1335	31	<LOD	167	<LOD	441	<LOD	53	<LOD	20	31259	394	209	16	<LOD	56	621	96	<LOD	0	281	49	13	3	28	2	<LOD	115	<LOD	7	<LOD	105	210	5	2200	462	116	4
10-Apr-12	50	22.85	embree 5444	115	NA	1	3	4			499.81	17.25	-7.64	10.19	-64.77	24.56	529.56	21.15	9.48	51.34	ND		0.08	11.63	-2.78	5.38	10604.7	207.79	70.99	11.7	-241.69	19.08	-60.42	57.82	ND		155.34	40.62	4.23	3.95	25.38	2.57	10.46	38.58	-1.29	1.83	-12.54	35.27	53.78	3.37	872.43	288.62	118.54	4.58
10-Apr-12	51	19.74	wilder_5420	105	NA	1	3	4			433	14.35	<LOD	32.39	<LOD	68.36	339.42	15.21	<LOD	140.99	<LOD	830.19	<LOD	35.79	<LOD	13.94	15462.51	238.73	40.85	9.37	<LOD	47.54	<LOD	199.18	<LOD	0	145.04	37.96	<LOD	11	36.85	2.62	<LOD	106.76	<LOD	4.65	<LOD	103.55	86.13	3.61	1060	269.75	213.11	5.2
10-Apr-12	51	24.11	jackson 5434	116	NA	1	4	0			1568	37	81	24	<LOD	92	1119	35	<LOD	206	<LOD	583	<LOD	66	<LOD	27	35277	544	241	21	<LOD	73	<LOD	363	<LOD	0	571	73	14	4	32	3	<LOD	148	<LOD	9	<LOD	136	234	7	2848	620	88	5
10-Apr-12	51	22.12	embree 5444	115	NA	1	3	4			735.3	21.81	19.59	12.95	-32.1	26.67	719.65	25.57	50.72	65.22	ND		6.65	15.32	-0.42	6.25	18551.37	311.81	133.84	14.98	-99.8	20.57	62.91	80.14	ND		323.62	54.37	4.93	4.15	38.95	3.09	54.89	43.07	-3.61	2	-32.34	38.88	79.02	4.04	1174.95	375.2	172.92	5.47
10-Apr-12	52	18.59	wilder_5420	105	NA	1	3	4			424.36	13.63	<LOD	30.22	<LOD	65.8	344.22	14.68	<LOD	152.07	<LOD	710.54	<LOD	38.11	<LOD	13.49	14371.65	217.92	30.22	8.59	<LOD	45.59	<LOD	185.73	<LOD	0	254.58	40.36	<LOD	10.41	38.16	2.54	<LOD	103.01	<LOD	4.96	<LOD	100.29	75.31	3.28	1272.95	248.18	199.22	4.83
10-Apr-12	52	24.41	jackson 5434	116	NA	1	4	2			1090	29	<LOD	57	<LOD	85	866	29	<LOD	184	<LOD	479	<LOD	53	<LOD	25	20009	343	63	13	<LOD	67	321	92	<LOD	0	221	51	16	4	27	3	<LOD	134	<LOD	8	<LOD	123	154	6	<LOD	1453	87	4
10-Apr-12	52	23.75	embree 5444	115	NA	1	3	4			619.02	22.02	18.21	13.22	-23.47	28.79	647.17	26.72	-12.85	62.78	ND		-23.24	14.46	6.38	7.29	13846.55	282.79	57.59	12.93	-155.72	22.52	175.59	79.37	ND		258.45	54.1	5.01	4.59	30.32	3.13	-16.22	46.51	-0.21	2.35	24.91	42.24	54.13	3.89	830.45	369.26	145.66	5.65
10-Apr-12	53	17.29	wilder_5420	105	NA	3	3	30			859.73	19.52	<LOD	42.03	<LOD	65.84	724.21	21.11	<LOD	147.91	<LOD	794.95	<LOD	41.21	<LOD	15.72	15184.65	222.19	89.9	10.86	<LOD	45.41	<LOD	192.67	<LOD	0	253.83	40.22	<LOD	10.19	35.8	2.48	<LOD	107.07	<LOD	5.53	<LOD	101.86	74.81	3.23	1526.67	268.98	235.97	5.13
10-Apr-12	53	24.23	jackson 5434	116	NA	1	4	2			954	25	<LOD	51	<LOD	80	847	27	<LOD	151	<LOD	403	<LOD	46	<LOD	21	15517	269	166	16	<LOD	63	392	79	<LOD	0	180	44	14	4	15	2	<LOD	124	<LOD	7	<LOD	114	149	5	<LOD	1153	87	4
10-Apr-12	53	25.28	embree 5444	115	NA	1	3	6			417.11	22.51	4.35	13.56	-95.14	38.25	888.13	39.75	263.02	100.26	ND		-32.45	16.34	-7.33	7.81	12183.76	328.33	66.3	17.37	-93.54	29.33	67.24	91.62	ND		576.33	85.49	3.52	6.02	43.79	4.47	55.65	62.53	-3.53	2.4	-4.47	56.66	59.41	5.1	1461.57	490.99	217.07	8.48
10-Apr-12	54	18.38	wilder_5420	105	NA	3	3	30			877.47	19.35	<LOD	42.05	<LOD	65.36	765.08	21.29	<LOD	142.19	<LOD	825.42	<LOD	41.01	<LOD	15.6	15747.07	223.22	82.93	10.42	<LOD	44.66	<LOD	192.33	<LOD	0	333.31	42.31	<LOD	10.2	40.31	2.54	<LOD	105.26	<LOD	5.48	<LOD	101.21	70.06	3.09	938.91	258.29	246.21	5.12
10-Apr-12	54	24.34	jackson 5434	116	NA	1	4	2			1345	26	<LOD	51	<LOD	68	1521	32	<LOD	131	<LOD	414	<LOD	47	<LOD	19	25242	323	118	13	<LOD	54	508	84	<LOD	0	318	46	<LOD	10	25	2	<LOD	108	<LOD	6	<LOD	100	184	5	1294	410	99	4
10-Apr-12	54	23.61	embree 5444	115	NA	1	3	6			511.95	19.99	9.55	12.04	0.1	29.5	929.24	32.56	-28.44	62.21	ND		-41.39	13.06	-7.43	6.25	12625.6	266.98	44.89	12.39	-123.98	22.85	172.43	76.66	ND		382.54	59.58	-1.24	4.62	38.01	3.38	40.37	48.29	-0.87	2.22	-12.38	42.56	72.85	4.36	1781.66	425.94	202.66	6.53
10-Apr-12	55	17.46	wilder_5420	105	NA	3	3	30			887.2	20.06	<LOD	42.94	<LOD	66.58	736.32	21.5	<LOD	143.12	<LOD	824.07	<LOD	39.83	<LOD	17.49	15872.04	231.13	88.56	10.91	<LOD	45.61	<LOD	193.41	<LOD	0	286.52	41.88	<LOD	10.43	38.19	2.57	<LOD	107.25	<LOD	5.95	<LOD	102.72	72.34	3.22	1183.09	267.1	225.93	5.07
10-Apr-12	55	22.94	jackson 5434	116	NA	1	4	4			439	13	<LOD	27	<LOD	62	394	14	<LOD	102	<LOD	289	<LOD	32	<LOD	13	9561	155	28	8	<LOD	49	<LOD	141	<LOD	0	158	31	15	3	32	2	<LOD	97	<LOD	5	<LOD	89	83	3	948	298	154	4
10-Apr-12	55	25.08	embree 5444	115	NA	1	3	6			395.46	20.62	23.12	12.82	-40.23	34.9	1064.52	41.33	164.9	86.12	ND		-7.97	17.17	-10.38	7.05	11869.57	302.66	55.91	15.65	-135.85	27.12	74.24	85.31	ND		173.14	58.79	-2.44	5.42	27.79	3.59	21.12	56.91	1.08	2.66	-54.11	51.23	57.79	4.72	1774.91	475.28	145.85	6.73
10-Apr-12	56	18.37	wilder_5420	105	NA	3	3	30			908.36	19.6	<LOD	41.6	<LOD	64.59	712.57	20.36	<LOD	154.1	<LOD	791.64	<LOD	39.71	<LOD	15.68	15429.41	218.67	70.19	9.89	<LOD	44.19	<LOD	186.27	<LOD	0	337.41	42.24	<LOD	10.09	34.39	2.39	<LOD	103.52	<LOD	5.46	<LOD	99.79	68.64	3.04	1140.62	255.8	229.88	4.93
10-Apr-12	56	22.95	jackson 5434	116	NA	1	4	4			429	13	<LOD	28	<LOD	67	391	15	<LOD	102	<LOD	347	<LOD	36	<LOD	14	13032	196	32	9	<LOD	52	300	59	<LOD	0	217	36	12	3	37	2	<LOD	104	<LOD	5	<LOD	96	87	3	1451	358	201	4
10-Apr-12	56	21.58	embree 5444	115	NA	3	3	30			96.88	7.79	7.69	4.95	8.36	24.9	90.58	8.99	72.09	56.8	ND		12.09	13.44	-7.09	4.22	13527.64	235.37	2.98	7.82	-85.5	19.25	66.43	64.99	ND		293.32	47.05	-1.14	3.86	39.73	2.85	-30.08	40.53	-1.3	1.44	32.12	37.16	66.01	3.5	2200.04	356.71	219.97	5.68
10-Apr-12	57	18.28	wilder_5420	105	NA	3	3	30			868.15	18.93	<LOD	40.62	<LOD	63.08	716.69	20.24	<LOD	142.91	<LOD	789.92	<LOD	37.24	<LOD	16.67	15312.52	215.55	76.63	10	<LOD	43.33	<LOD	181.12	<LOD	0	306.65	40.65	<LOD	9.91	33.67	2.35	<LOD	102.39	<LOD	5.28	<LOD	98.61	68.29	3.01	<LOD	729.08	227.94	4.86
10-Apr-12	57	23.69	jackson 5434	116	NA	1	4	4			472	16	<LOD	33	<LOD	74	469	18	<LOD	128	<LOD	416	<LOD	41	<LOD	15	16092	252	39	10	<LOD	58	359	72	<LOD	0	276	44	13	4	45	3	<LOD	117	<LOD	5	<LOD	108	101	4	1759	429	231	5
10-Apr-12	57	22.56	embree 5444	115	NA	3	3	30			123.15	9.4	9.09	5.98	-13.77	27.35	126.15	11.32	102.04	67.14	ND		-17.4	13.83	-6.3	4.84	14753.88	273.07	18.83	9.68	-59.24	21.31	147.2	75.22	ND		381.71	56.23	1.06	4.34	50.98	3.43	-51.56	45.05	-2.7	1.51	-43.33	41.03	80.97	4.17	2242.4	422.04	266.76	6.84
10-Apr-12	58	17.88	wilder_5420	105	NA	3	3	30			887.32	19.55	<LOD	42.3	<LOD	65.54	722.96	20.74	<LOD	154.82	1237.72	295.46	<LOD	39.8	<LOD	15.46	15657.25	223.16	72.41	10.08	<LOD	44.58	<LOD	187.67	<LOD	0	266.29	40.6	<LOD	10.21	43.71	2.62	<LOD	105.64	<LOD	5.41	<LOD	100.64	74.96	3.18	<LOD	794.1	231.46	5
10-Apr-12	58	23.99	jackson 5434	116	NA	1	3	0			1103	28	64	19	<LOD	85	788	27	<LOD	195	<LOD	529	<LOD	63	<LOD	21	38769	554	129	16	<LOD	68	528	123	<LOD	0	471	67	14	4	20	3	<LOD	136	<LOD	9	<LOD	124	191	6	<LOD	1560	100	5
10-Apr-12	58	21.85	embree 5444	115	NA	3	3	30			165.61	10.1	17.33	6.53	-98.46	25.92	179.19	12.47	2.97	57.44	ND		-12.76	13.19	6.73	5.77	16120.89	273.24	34.12	9.92	-87.96	19.88	79.6	72.82	ND		307.55	50.24	-3.13	4.01	48.57	3.18	54.5	42.52	1.3	1.8	20.2	38.56	68.15	3.67	2069.75	381.89	255.28	6.29
10-Apr-12	59	18.27	wilder_5420	105	NA	3	3	30			913.63	19.58	<LOD	42.02	<LOD	64.38	742.24	20.72	<LOD	155.7	<LOD	784.34	<LOD	39.22	<LOD	14.55	15811.64	221.36	84.84	10.35	<LOD	44.17	<LOD	187.95	<LOD	0	339.15	42.29	<LOD	9.95	37.12	2.44	<LOD	103.26	<LOD	5.65	<LOD	99.85	73.27	3.11	1315.88	258.32	234.86	4.96
10-Apr-12	59	23.07	jackson 5434	116	NA	1	3	0			1040	24	<LOD	48	<LOD	75	762	23	<LOD	167	<LOD	450	<LOD	51	<LOD	18	28184	377	168	15	<LOD	58	572	95	<LOD	0	341	51	<LOD	11	21	2	<LOD	120	<LOD	7	<LOD	110	239	6	<LOD	1327	109	4
10-Apr-12	59	21.06	embree 5444	115	NA	3	3	2			183.16	9.85	5.87	6.14	3.37	23.92	134.69	10.28	23.72	52.86	ND		-11.08	12.18	-2.98	4.58	13173.32	223	20.68	8.49	-83.81	18.56	155	63.37	ND		366.42	48	0.69	3.76	52.61	3.07	6.44	38.9	-1.84	1.44	26.53	35.45	74.73	3.56	1890.1	343.51	241.04	5.73
10-Apr-12	60	18.22	wilder_5420	105	NA	3	3	30			593.28	16.15	<LOD	35.94	<LOD	66.52	517.75	17.94	<LOD	156.48	864.42	278.08	<LOD	33.76	<LOD	14.53	12332.12	196.11	47.68	9.26	<LOD	45.94	<LOD	172.5	<LOD	0	279.6	40.75	<LOD	10.4	33.81	2.44	<LOD	107.89	<LOD	5.19	<LOD	102.86	66.57	3.12	<LOD	755.75	236.19	5.19
10-Apr-12	60	23.5	jackson 5434	116	NA	1	3	0			910	23	66	16	<LOD	77	939	27	<LOD	142	<LOD	425	<LOD	48	<LOD	21	23407	340	273	18	<LOD	61	409	89	<LOD	0	388	52	15	4	22	2	<LOD	124	<LOD	7	<LOD	114	191	5	<LOD	1264	103	4
10-Apr-12	60	21.29	embree 5444	115	NA	3	3	2			164.22	9.39	6.14	5.87	5.5	23.95	184.5	11.83	5.41	51.16	ND		-9.83	11.63	-6.47	4.26	13305.54	224.89	30.37	8.99	-122.8	18.4	45.46	62.07	ND		226.59	42.57	3.79	3.78	39.34	2.75	53.57	38.51	-2.42	1.36	32.07	34.67	75.46	3.57	2104	345.09	222.12	5.53
10-Apr-12	61	17.74	wilder_5420	105	NA	3	3	30			713.99	17.64	<LOD	38.15	<LOD	65.6	570.92	18.65	<LOD	146.18	<LOD	765.21	<LOD	38.3	<LOD	14.8	13760.15	208.29	58.2	9.62	<LOD	45.06	202.4	62.14	<LOD	0	292.42	40.97	<LOD	10.4	33.81	2.42	<LOD	106.06	<LOD	5.42	<LOD	99.89	68.26	3.11	982.93	248.81	226.9	5.03
10-Apr-12	61	22.21	jackson 5434	116	NA	1	3	2			750	17	<LOD	34	<LOD	62	616	18	<LOD	114	<LOD	333	<LOD	37	<LOD	15	16732	218	66	9	<LOD	48	318	62	<LOD	0	352	40	13	3	33	2	<LOD	95	<LOD	4	<LOD	89	118	4	1423	342	126	4
10-Apr-12	61	21.85	embree 5444	115	NA	3	3	2			113.66	8.53	9.89	5.45	-86.08	25.52	104.86	9.83	8.39	56.7	ND		17.41	14.59	-0.51	5.01	15422.48	263.64	14.77	8.87	-92.91	19.73	74.18	70.89	ND		354.01	51.37	2.03	4.05	47.28	3.12	4.82	41.53	-1.52	1.5	22.53	37.85	75.77	3.8	3090.3	413.08	263.63	6.36
10-Apr-12	62	18.19	wilder_5420	105	NA	3	3	2			380.51	12.08	<LOD	26.96	<LOD	63.19	320.01	13.3	<LOD	137.2	<LOD	726.16	38.38	11.77	<LOD	12.46	11238.87	173.78	49.18	8.84	<LOD	42.91	<LOD	151.59	<LOD	0	379.43	40.79	<LOD	10.08	38.91	2.39	<LOD	101.49	<LOD	4.44	<LOD	97.42	72.02	3.01	1433.5	246.97	271.3	5.22
10-Apr-12	62	22.31	jackson 5434	116	NA	1	3	2			834	18	<LOD	37	<LOD	63	709	19	<LOD	122	<LOD	337	<LOD	36	<LOD	15	18036	234	79	10	<LOD	49	262	64	<LOD	0	417	43	<LOD	9	39	2	<LOD	99	<LOD	5	<LOD	91	128	4	1974	363	126	4
10-Apr-12	62	21.17	embree 5444	115	NA	3	4	30			1101.93	25.91	33.77	14.94	-20.3	24.1	1176.8	31.54	-36.32	61.39	ND		6.36	16.63	-5.84	6.04	26605.33	382.6	127.95	14.09	-204.76	18.84	201.8	91.4	ND		299.47	53.58	-0.68	3.84	30.79	2.73	-6.6	38.06	1	2.43	5.75	35.11	62.61	3.5	1311.78	364.63	167.7	5.07
10-Apr-12	63	19.01	wilder_5420	105	NA	3	3	2			469.91	13.64	<LOD	30.14	<LOD	62.83	271.71	12.44	<LOD	128.08	<LOD	675.52	<LOD	32.81	<LOD	13.87	11601.81	179.79	<LOD	22.73	<LOD	43.48	<LOD	162.92	<LOD	0	327.15	39.5	<LOD	10.22	39.63	2.45	<LOD	100.36	<LOD	5.17	<LOD	96.58	71.25	3.05	1085.04	229.86	269.49	5.27
10-Apr-12	63	22.85	jackson 5434	116	NA	1	3	2			292	11	<LOD	23	<LOD	66	277	12	<LOD	116	<LOD	339	<LOD	35	<LOD	14	14341	207	<LOD	22	<LOD	51	371	62	<LOD	0	336	40	15	3	39	2	<LOD	105	<LOD	4	<LOD	98	108	4	2655	386	210	5
10-Apr-12	63	21.6	embree 5444	115	NA	3	4	30			887.69	22.36	45.21	13.31	-60.46	23.39	786.68	24.71	31.24	55.35	ND		2.78	13.34	0.8	5.95	17284.05	273.28	72.2	11.37	-232.97	18.16	24.13	71.01	ND		212.52	44.81	2.84	3.74	22.75	2.41	58.71	37.82	-3.49	1.96	-14.51	34.17	53.21	3.21	812.9	287.25	134.57	4.54
10-Apr-12	64	19.04	wilder_5420	105	NA	3	3	2			409.13	12.88	<LOD	29.39	<LOD	64.6	300.03	13.23	<LOD	142.33	<LOD	733.01	<LOD	32.02	<LOD	13.59	11984.3	186.16	27.82	8.04	<LOD	44.53	<LOD	169.66	<LOD	0	252.43	38.01	<LOD	10.25	43.51	2.57	<LOD	105.27	<LOD	4.48	<LOD	99.68	70.3	3.07	<LOD	689.24	271.53	5.37
10-Apr-12	64	24.71	jackson 5434	116	NA	3	1	30			147	9	<LOD	20	<LOD	73	200	12	<LOD	144	<LOD	459	<LOD	42	<LOD	14	18609	268	<LOD	25	<LOD	57	427	75	<LOD	0	463	50	<LOD	11	67	3	<LOD	118	<LOD	4	<LOD	107	140	4	2979	484	331	6
10-Apr-12	64	21.76	embree 5444	115	NA	3	4	30			708.04	21.53	69.74	13.39	-20.3	26.55	898.83	28.99	125.56	76.45	ND		1.68	17.82	1.11	6.6	30590.34	455.1	136.09	15.34	-69.6	20.95	105.92	102.82	ND		554.15	67.88	7.99	4.25	35.61	3.02	-24.99	42.76	0.74	2.35	31.49	39.18	102.48	4.54	2828.51	449.16	199.24	5.87
10-Apr-12	65	19.79	wilder_5420	105	NA	3	3	4			477.81	14.18	<LOD	31.61	<LOD	65.47	284.2	13.12	<LOD	154.4	<LOD	712.29	<LOD	33.18	<LOD	13.35	12843.05	198.07	39.14	8.7	<LOD	44.38	<LOD	173.74	<LOD	0	307.79	41	<LOD	10.31	33.1	2.37	<LOD	104.54	<LOD	4.95	<LOD	99.46	62.86	2.99	985.67	237.79	226.12	4.99
10-Apr-12	65	23.28	jackson 5434	116	NA	3	1	30			128	8	<LOD	18	<LOD	74	162	11	<LOD	136	<LOD	438	<LOD	38	<LOD	15	16792	252	<LOD	24	<LOD	58	344	71	<LOD	0	281	43	<LOD	11	55	3	<LOD	119	<LOD	4	<LOD	108	125	4	2681	465	282	6
10-Apr-12	65	21.49	embree 5444	115	NA	3	4	30			413.91	15.47	19.03	9.56	-19.47	25.69	407.75	18.3	-15.08	56.6	ND		-14.37	14.05	-3.92	5.24	17268.62	284.22	65.73	11.49	-64	19.85	210.66	76.5	ND		291.68	49.81	6.27	4.06	47.22	3.14	0.81	41.55	2	2.05	-14.52	37.96	71.04	3.71	1810.54	364.97	237.65	6.03
10-Apr-12	66	18.41	wilder_5420	105	NA	3	3	4			471.87	13.66	<LOD	29.99	<LOD	63.82	318.02	13.43	<LOD	138.23	<LOD	765.82	<LOD	35.22	<LOD	12.95	13871.64	201.88	41.35	8.57	<LOD	43.97	<LOD	175.24	<LOD	0	295.29	39.57	<LOD	9.93	39.14	2.44	<LOD	102.77	<LOD	4.84	<LOD	99.19	73.34	3.08	968.86	245.09	249.61	5.08
10-Apr-12	66	22.48	jackson 5434	116	NA	3	1	30			95	6	<LOD	14	<LOD	64	99	8	<LOD	101	<LOD	320	<LOD	32	<LOD	11	10251	159	<LOD	19	<LOD	49	190	49	<LOD	0	200	32	9	3	36	2	<LOD	102	<LOD	4	<LOD	93	91	3	2048	349	212	4
10-Apr-12	66	23.33	embree 5444	115	NA	3	4	30			479.5	18.24	6.13	10.98	-71.03	27.11	442.19	20.81	13.62	60.19	ND		-9.07	14.84	-13	4.82	14705.73	279.31	30.66	10.73	-181.79	21.11	192.73	77.62	ND		356.04	55.7	-1.77	4.29	36.33	3.13	39.99	44.17	-2.22	1.92	98.21	39.77	51.43	3.6	1183.04	343.87	170.12	5.68
10-Apr-12	67	19.16	wilder_5420	105	NA	3	3	4			388.46	13.51	<LOD	30.59	<LOD	69.35	279.78	13.77	<LOD	163.91	<LOD	803.81	<LOD	38.84	<LOD	13.41	12378.71	204.84	<LOD	25.24	<LOD	47.95	<LOD	178.74	<LOD	0	286.87	42.54	<LOD	10.86	36.64	2.6	<LOD	112.62	<LOD	4.68	<LOD	107.69	67.17	3.25	1015.95	262.19	221.29	5.24
10-Apr-12	67	22.19	jackson 5434	116	NA	3	1	30			95	6	<LOD	13	<LOD	60	97	7	<LOD	93	<LOD	303	<LOD	27	<LOD	10	8462	134	<LOD	19	<LOD	46	187	43	<LOD	0	161	29	11	3	35	2	<LOD	93	<LOD	4	<LOD	86	83	3	2003	328	184	4
10-Apr-12	67	24.89	embree 5444	115	NA	3	4	2			442.58	20.61	18.73	12.64	-65.97	32.55	450.12	24.72	32.26	74.57	ND		1.46	17.43	-8.19	6.36	15110.57	336.03	74.81	15.57	-138.56	25.45	46.72	89.31	ND		299.12	63.27	11	5.3	44.29	3.97	107.86	51.14	0.34	2.49	61.81	46.23	62.82	4.59	1160.08	430.58	165.81	6.67
10-Apr-12	68	20.06	wilder_5420	105	NA	3	3	10			308.71	12.73	34.14	9.98	<LOD	73.34	205.75	12.61	<LOD	173.27	<LOD	966.16	<LOD	42.28	<LOD	14.51	14030.62	234.78	31.43	9.53	<LOD	50.9	<LOD	200.29	<LOD	0	244.65	44.09	<LOD	11.64	45.87	2.97	<LOD	118.83	<LOD	5.09	<LOD	114.89	76.28	3.61	1415.43	311.39	262.39	6.01
10-Apr-12	68	22.97	jackson 5434	116	NA	3	2	30			177	9	<LOD	20	<LOD	71	176	11	<LOD	129	<LOD	395	<LOD	43	<LOD	15	16531	241	<LOD	22	<LOD	55	358	69	<LOD	0	381	45	<LOD	11	56	3	<LOD	113	<LOD	5	<LOD	105	134	4	4575	479	312	6
10-Apr-12	68	21.76	embree 5444	115	NA	3	4	2			423.66	15.43	20.09	9.54	-59.3	24.59	366.56	17.1	37.58	57.17	ND		-21.1	12.35	-2.58	5.21	14715.99	251.23	39.63	9.97	-120.13	19.26	130.92	69.14	ND		375.92	51.29	0.99	3.9	41.51	2.95	28.62	40.24	-0.34	1.84	-40.16	35.93	69.36	3.62	1401.08	342.36	200.26	5.5
10-Apr-12	69	19.92	wilder_5420	105	NA	3	3	10			505.92	15.12	<LOD	33.62	<LOD	68.03	287.32	13.67	<LOD	144.48	<LOD	855.44	<LOD	35.52	<LOD	15.6	12688.87	203.4	48.36	9.47	<LOD	47.57	<LOD	176.45	<LOD	0	352.86	43.75	<LOD	10.87	40.01	2.63	<LOD	110.51	<LOD	5.48	<LOD	105.58	78.93	3.39	1538.58	283.44	255.59	5.5
10-Apr-12	69	22.41	jackson 5434	116	NA	3	2	30			149	7	<LOD	16	<LOD	58	229	10	<LOD	95	<LOD	304	<LOD	28	<LOD	12	11552	163	20	7	<LOD	45	236	50	<LOD	0	289	34	<LOD	9	34	2	<LOD	88	<LOD	4	<LOD	82	100	3	2165	334	157	4
10-Apr-12	69	19.45	embree 5444	115	NA	3	4	2			446.69	14.35	27.67	8.94	21.8	22.97	386.62	15.93	-28.91	50.92	ND		6.52	13.46	5.03	5.34	18924.47	270.16	62.49	10.13	-52.87	17.7	129.66	70.26	ND		511.07	52.11	5.03	3.6	48.82	2.84	-10.62	36.83	-0.34	1.73	85.42	33.94	79.08	3.45	2574.16	353.85	252.46	5.53
10-Apr-12	70	19.88	wilder_5420	105	NA	3	3	10			416.45	13.32	<LOD	29.41	<LOD	65.86	239.78	12.24	<LOD	142.7	<LOD	755.68	<LOD	34.49	<LOD	15.31	12294.3	193.99	56.86	9.56	<LOD	45.29	<LOD	165.39	<LOD	0	277.3	39.77	<LOD	10.32	37.66	2.5	<LOD	105.8	<LOD	4.69	<LOD	101.85	90.27	3.49	1345.59	256.46	243.9	5.24
10-Apr-12	70	46.14																																																					
10-Apr-12	70	19.11	embree 5444	115	NA	3	4	4			390.54	12.66	13.06	7.8	1.83	21.2	370.08	14.72	26.22	43.39	ND		-3.65	10.4	-1.84	4.44	10604.15	172.73	58.21	9.17	-118.32	16.34	97.87	50.76	ND		177.32	34.81	2.02	3.29	37.8	2.43	76.77	34.04	-0.56	1.52	38.55	31.06	59.53	2.91	1795.1	268.93	177.86	4.45
10-Apr-12	71	21.07	wilder_5420	105	NA	3	4	30			717.16	19.95	<LOD	43.5	<LOD	74.59	1272.18	32.35	<LOD	177.69	<LOD	978.97	<LOD	44.45	<LOD	18.28	20176.51	305.92	87.77	12.25	<LOD	52.28	<LOD	243.14	<LOD	0	358.8	51.53	<LOD	12.16	55.57	3.29	<LOD	120.98	<LOD	6.88	<LOD	116.93	112.51	4.33	1906.93	330.16	295.88	6.52
10-Apr-12	71	23.4	jackson 5434		2586						417	15	<LOD	32	<LOD	79	274	15	271	74	<LOD	601	<LOD	61	<LOD	17	45961	583	56	12	<LOD	63	708	124	<LOD	0	754	72	<LOD	12	42	3	<LOD	125	<LOD	6	<LOD	117	85	4	6553	685	219	5
10-Apr-12	71	18.79	embree 5444	115	NA	3	4	4			598.28	15.57	39.47	9.61	18.3	20.71	577.35	18.14	-44.11	43.39	ND		6.3	11.97	1.11	4.86	14658.96	210.33	55.06	9.04	-182.3	15.82	198.71	59.09	ND		228.05	38.04	2.58	3.23	32.51	2.29	-5.37	33.08	2.72	1.84	9.57	29.97	66.45	2.99	1195.92	275.47	159.94	4.19
10-Apr-12	72	21.33	wilder_5420	105	NA	3	4	30			769.57	20.91	50.38	15.49	<LOD	74.35	1751.01	39.3	<LOD	198.34	<LOD	1035.45	<LOD	46.47	<LOD	19.9	21916.16	327.65	139.72	14.31	<LOD	51.97	<LOD	259.63	<LOD	0	347.27	52.82	<LOD	12.23	53.53	3.28	<LOD	119.3	<LOD	6.39	<LOD	114.89	124.08	4.57	968.11	317.87	240.11	5.96
10-Apr-12	72	23.54	jackson 5434	127	NA	1	3	0			698	21	<LOD	43	<LOD	82	753	25	<LOD	189	<LOD	535	<LOD	57	<LOD	20	36169	496	109	14	<LOD	65	554	114	<LOD	0	524	64	<LOD	12	29	3	<LOD	131	<LOD	7	<LOD	121	299	7	2173	546	152	5
10-Apr-12	72	19.62	embree 5444	115	NA	3	4	4			582.77	16.43	25.47	10.01	-1.68	22.43	505	18.14	193.24	61.05	ND		11.7	13.27	4.88	5.43	18195.49	261.56	79.63	10.76	-126.85	17.26	81.79	68.11	ND		359.13	47.68	2.18	3.54	43.64	2.72	-27.36	35.76	2.39	1.95	22.88	32.62	70.3	3.28	1914.08	330.66	229.11	5.25
10-Apr-12	73	19.39	wilder_5420	105	NA	3	4	30			874.64	22.93	70.48	16.96	<LOD	78.07	1639.42	38.61	<LOD	209.49	<LOD	1069.1	<LOD	54.16	<LOD	18.77	27205.69	392.23	153.45	15.17	<LOD	54.43	<LOD	291.96	<LOD	0	444.38	59.31	<LOD	12.66	54.24	3.38	<LOD	127.49	<LOD	6.35	<LOD	122.56	133.12	4.82	1567.72	344.95	292.49	6.7
10-Apr-12	73	24.61	jackson 5434	127	NA	1	3	0	precision		863	21	<LOD	43	<LOD	75	832	24	<LOD	165	<LOD	459	<LOD	49	<LOD	19	27148	361	98	13	<LOD	59	427	90	<LOD	0	648	60	12	4	36	3	<LOD	119	<LOD	6	<LOD	110	229	6	2418	480	199	5
10-Apr-12	73	22.08	embree 5444	115	NA	3	4	6			290.38	12.87	16.21	8.08	-41.87	25	272.05	14.89	35.63	56.84	ND		3.72	12.92	1.8	5.41	12292.78	224.3	27.7	9.4	-129.26	19.35	70.27	63.22	ND		228.55	44.82	1.19	3.9	42.06	2.97	87.11	40.56	-0.62	1.71	-30.56	36.19	64.73	3.54	84.12	303.74	177.14	5.25
10-Apr-12	74	17.87	wilder_5420	105	NA	3	4	2			575.52	15.37	<LOD	34.23	<LOD	62.97	1086.29	25.72	<LOD	141.86	<LOD	757.69	<LOD	36.01	<LOD	14.77	12771.98	194.09	75.83	10.13	<LOD	43.33	<LOD	171.14	<LOD	0	339.83	41.24	<LOD	9.92	32.41	2.32	<LOD	99.19	<LOD	5.1	<LOD	95.63	80.04	3.24	1138.32	248.77	170.86	4.36
10-Apr-12	74	23.21	jackson 5434	127	NA	1	3	0	precision		731	20	<LOD	41	<LOD	76	724	23	<LOD	158	<LOD	438	<LOD	46	<LOD	17	20939	305	141	14	<LOD	60	300	81	<LOD	0	482	54	13	4	31	3	<LOD	122	<LOD	5	<LOD	112	240	6	2360	466	129	4
10-Apr-12	74	20.53	embree 5444	105	NA	1	1	0			530.26	17.19	20.72	10.48	-3.55	25.28	454.19	18.91	-29.75	57.49	ND		-10.96	14.85	5.64	6.07	19383.98	301.39	60.34	11.21	-8.35	19.74	252.62	79.5	ND		464.31	56.08	9.13	4.15	60.66	3.41	99.08	41.85	-1.02	1.95	29.04	37.83	116.05	4.47	3213.39	420.03	369.2	7.44
10-Apr-12	75	19.65	wilder_5420	105	NA	3	4	2			552.29	15.21	<LOD	34.07	<LOD	63.74	570.27	18.42	<LOD	148.29	<LOD	795.15	<LOD	38.73	<LOD	12.5	15353.17	221.91	47.81	9.17	<LOD	44.42	<LOD	186.44	<LOD	0	381.37	44.07	<LOD	10.29	33.99	2.39	<LOD	101.54	<LOD	4.97	<LOD	98.3	88.96	3.42	1077.03	256.34	229.11	5.02
10-Apr-12	75	23.22	jackson 5434	127	NA	1	3	0	precision		611	18	50	13	<LOD	75	712	22	<LOD	141	<LOD	443	<LOD	45	<LOD	18	18520	273	147	14	<LOD	58	223	74	<LOD	0	456	51	<LOD	10	25	2	<LOD	121	<LOD	6	<LOD	111	238	6	2119	457	118	4
10-Apr-12	75	21.28	embree 5444	105	NA	1	1	0			482.2	16.52	11.4	10.02	30.55	25.38	441.45	18.83	106.89	62.75	ND		3.04	14.35	-6.41	5.08	17609.72	284.97	60.87	11.24	-57.65	19.67	89.25	74.7	ND		419.02	54.52	5.67	4.04	41.57	2.97	52.15	41.06	-2.94	1.75	105.23	37.4	99.34	4.21	2945	395.05	268.98	6.36
10-Apr-12	76	19.65	wilder_5420	105	NA	3	4	2			516.45	14.95	<LOD	33.83	<LOD	65.73	642.65	19.94	<LOD	149.74	<LOD	1008.32	<LOD	39.63	<LOD	14.89	15717.85	229.44	41.49	9.09	<LOD	45.37	<LOD	192.75	<LOD	0	395.67	45.52	<LOD	10.46	38.72	2.55	<LOD	105.86	<LOD	5.18	<LOD	101.4	98.71	3.64	3891.13	360.46	258.65	5.42
10-Apr-12	76	24.58	jackson 5434	127	NA	1	3	0	precision		619	17	51	12	<LOD	74	725	22	<LOD	134	<LOD	410	<LOD	42	<LOD	18	18265	264	128	13	<LOD	57	<LOD	213	<LOD	0	344	46	<LOD	10	26	2	<LOD	119	<LOD	6	<LOD	109	240	6	1690	420	119	4
10-Apr-12	76	20.1	embree 5444	105	NA	1	1	0			500.87	16.12	31.26	10	24.58	24.65	494.62	19.06	82.32	60.58	ND		18.55	14.57	-2.92	5.24	18060.38	276.68	61.99	10.86	-15.22	18.99	82.94	72.18	ND		325.36	49.35	9.49	3.91	51.25	3.08	12	40.12	0.08	1.91	136.4	36.61	102.59	4.08	2280.41	377.65	283.26	6.23
10-Apr-12	77	21.98	wilder_5420	116	NA	1	2	0			1020.48	24.65	<LOD	53.07	<LOD	73.87	716.46	24.09	<LOD	191.13	<LOD	852.35	<LOD	43.7	<LOD	17.58	17699.2	283.36	157.38	14.89	<LOD	52.02	<LOD	231.28	<LOD	0	157.74	43.65	<LOD	11.33	16.11	2.32	<LOD	117.91	<LOD	6.58	<LOD	114.29	152.66	5.07	<LOD	821.88	96.7	4.3
10-Apr-12	77	23.19	jackson 5434	127	NA	1	3	0	precision		603	17	<LOD	37	<LOD	74	718	22	<LOD	143	<LOD	431	<LOD	43	<LOD	17	18414	271	119	13	<LOD	58	255	74	<LOD	0	397	49	<LOD	10	22	2	<LOD	120	<LOD	6	<LOD	110	235	6	1715	437	116	4
10-Apr-12	77	20.48	embree 5444	105	NA	1	1	2			378.46	13.47	25.99	8.47	-7.13	23.03	365.79	15.8	5.6	50.88	ND		5.94	12.19	2.27	5.15	14205.46	226.23	51.41	9.78	-103.09	17.82	11.52	61.26	ND		258.06	42.95	6.29	3.68	46.26	2.84	27.08	36.8	0.15	1.72	-29.78	33.16	85.39	3.63	1339.3	315.6	235.88	5.48
10-Apr-12	78	55.05																																																				
10-Apr-12	78	23.14	jackson 5434	127	NA	1	3	0	precision		585	17	<LOD	36	<LOD	74	688	22	<LOD	144	467	150	<LOD	44	<LOD	17	17892	265	122	13	<LOD	58	408	75	<LOD	0	344	47	<LOD	10	23	2	<LOD	120	<LOD	6	<LOD	110	238	6	1466	442	111	4
10-Apr-12	78	21.63	embree 5444	105	NA	1	1	2			363.32	14.19	15.84	8.8	-75.28	24.71	345.16	16.5	70.02	57.38	ND		-5.3	12.14	6.05	5.78	13913.09	240.06	42.57	10.08	-128.25	19.06	-31.48	64.47	ND		254.1	45.95	0.63	3.92	38.6	2.85	-61.69	39.3	0.98	1.89	-0.73	36.15	92.16	4.04	1586.01	334.93	245.26	6.02
10-Apr-12	79	19.85	wilder_5420	116	NA	1	2	0			1181.52	24.47	<LOD	51.17	<LOD	68.45	1063.45	27.15	<LOD	179.35	<LOD	888.35	<LOD	46.33	<LOD	16.38	22699.69	307.77	179.66	14.29	<LOD	47.48	<LOD	241.97	<LOD	0	362.59	49.07	<LOD	10.53	22.81	2.32	<LOD	108.51	<LOD	6.66	<LOD	103.8	155.84	4.66	<LOD	801.38	99.41	3.95
10-Apr-12	79	23.46	jackson 5434	127	NA	1	3	0			708	20	<LOD	42	<LOD	77	931	27	<LOD	151	<LOD	473	<LOD	52	<LOD	20	23896	345	62	12	<LOD	61	<LOD	262	<LOD	0	592	59	13	4	65	3	<LOD	125	<LOD	6	<LOD	115	302	7	2513	500	167	5
10-Apr-12	79	22.09	embree 5444	105	NA	1	1	2			426.55	16.04	42.66	10.24	-72.05	25.88	439.7	19.45	-9.83	57.29	ND		-0.31	14.15	-3.96	5.41	16075.49	277.06	62.2	11.64	-122.24	20.02	68	73.74	ND		338.42	52.26	-2.07	4.09	45.34	3.17	20.59	41.53	-5.04	1.58	38.19	37.72	84.94	4.08	1897.52	373.58	250.57	6.35
10-Apr-12	80	20.29	wilder_5420	116	NA	1	2	0			995.73	22.89	<LOD	48.62	<LOD	72.83	860.39	24.96	<LOD	171.66	<LOD	888.33	<LOD	45.08	<LOD	16.28	19914.77	289.65	115.74	12.71	<LOD	49.73	<LOD	227.15	<LOD	0	370.7	49.6	<LOD	10.6	20.55	2.31	<LOD	116.4	<LOD	6.26	<LOD	111.63	162.41	4.91	<LOD	799.55	102.38	4.12
10-Apr-12	80	23.26	jackson 5434	127	NA	1	3	0			653	18	<LOD	38	<LOD	75	802	24	<LOD	153	<LOD	455	<LOD	44	<LOD	19	21803	309	93	12	<LOD	59	362	82	<LOD	0	685	59	17	4	44	3	<LOD	118	<LOD	6	<LOD	110	201	5	2964	490	223	5
10-Apr-12	80	19.55	embree 5444	105	NA	1	1	4			353.01	12.13	27.2	7.69	21.74	20.99	470.89	16.7	62.91	47.97	ND		2.41	11.18	-1.7	4.52	13769.91	206.48	31.62	8.18	-170.79	16.22	49.55	56.82	ND		233.53	38.8	4.21	3.35	37	2.43	-22.31	32.9	2.09	1.68	9.03	30.04	83.36	3.34	1612.94	273.68	193.55	4.67
10-Apr-12	81	18.87	wilder_5420	116	NA	1	2	2			914.8	19.8	50.15	14.44	<LOD	64.04	732.79	20.81	<LOD	164.75	<LOD	712.8	<LOD	35.81	<LOD	14.38	16003.22	225.47	112.82	11.31	<LOD	43.74	<LOD	188.93	<LOD	0	205.56	38.42	<LOD	9.72	23.8	2.16	<LOD	101.22	<LOD	5.52	<LOD	97.67	139.93	4.15	<LOD	656.67	104.67	3.73
10-Apr-12	81	22.86	jackson 5434	127	NA	1	3	2			442	14	<LOD	28	<LOD	66	644	19	<LOD	116	<LOD	341	<LOD	37	<LOD	15	13195	197	52	9	<LOD	51	254	59	<LOD	0	330	40	<LOD	10	35	2	<LOD	104	<LOD	5	<LOD	95	111	4	1474	355	187	4
10-Apr-12	81	21.36	embree 5444	105	NA	1	4	0			806.16	22.95	27.06	13.6	-4.98	27.14	892.56	28.67	-87.7	62.56	ND		-21.04	15.49	-1.43	6.42	24573.1	381.99	162.22	16.08	-54.81	20.87	115.62	92.14	ND		400.99	59.56	2.78	4.1	35.72	3.03	-36.02	44.95	1.95	2.45	81.66	40.39	185.71	5.95	1349.51	405.73	153	5.34
10-Apr-12	82	18.8	wilder_5420	116	NA	1	2	2			973.13	22.52	<LOD	47.99	<LOD	70.24	825.32	24.37	224.68	65.76	<LOD	833.33	<LOD	43.74	<LOD	18.07	19174.06	280.82	167.6	14.32	<LOD	48.96	<LOD	222.96	<LOD	0	280.31	46.65	<LOD	11.03	23.1	2.38	<LOD	111.59	<LOD	6.46	<LOD	107.75	195.63	5.37	<LOD	773.86	114.68	4.3
10-Apr-12	82	22.79	jackson 5434	127	NA	1	3	2			410	13	<LOD	28	<LOD	69	514	17	<LOD	131	<LOD	370	<LOD	39	<LOD	12	14693	216	51	10	<LOD	53	233	62	<LOD	0	303	41	<LOD	10	34	2	<LOD	109	<LOD	5	<LOD	101	177	5	2136	396	191	5
10-Apr-12	82	20.83	embree 5444	105	NA	1	4	0			729.64	20.25	35.45	12.21	-16.98	24.08	934.66	27.4	-23.2	58.4	ND		2.55	15.21	0.89	6.04	21691.62	324.61	115.51	13.34	-142.55	18.89	168.77	81.82	ND		442	55.74	5.9	3.86	33.29	2.73	39.53	39.19	1.33	2.18	41.19	35.7	118.75	4.48	1528.18	361.46	175.87	5.17
10-Apr-12	83	55.29																																																				
10-Apr-12	83	22.88	jackson 5434	127	NA	1	3	2			425	13	<LOD	28	<LOD	65	546	17	<LOD	112	<LOD	386	<LOD	35	<LOD	13	13097	195	41	9	<LOD	51	282	58	<LOD	0	355	41	12	3	35	2	<LOD	102	<LOD	4	<LOD	93	125	4	2160	401	193	4

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

In-Situ XRF Data

Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment	Pb	Pb +/-	As	As +/-
10-Apr-12	83	23.34	embree 5444	105	NA	1	4	0		774.32	24.86	37.37	14.88
10-Apr-12	84	19.77	twellman_5420	116	NA	1	2	2		872.32	20.04	<LOD	42.71
10-Apr-12	84	23.18	jackson 5434	127	NA	1	3	4		257	11	<LOD	23
10-Apr-12	84	20.42	embree 5444	105	NA	1	4	2		452.14	14.75	14.87	9.03
10-Apr-12	85	18.65	twellman_5420	116	NA	1	2	4		765.49	17.91	<LOD	38.94
10-Apr-12	85	22.5	jackson 5434	127	NA	1	3	4		289	10	<LOD	23
10-Apr-12	85	20.59	embree 5444	105	NA	1	4	2		404.35	14.1	24.72	8.81
10-Apr-12	86	17.9	twellman_5420	116	NA	1	2	4		759.98	18.46	<LOD	39.72
10-Apr-12	86	46.16											
10-Apr-12	86	19.9	embree 5444	105	NA	1	4	2		500.94	15.21	16.91	9.28
10-Apr-12	87	19.28	twellman_5420	116	NA	1	2	6		324.7	13.35	<LOD	29.93
10-Apr-12	87	23.94	jackson 5434	143	NA	1	2	0		360	14	<LOD	30
10-Apr-12	87	20.92	embree 5444	105	NA	1	5	0 (first 7 shots at same spot)		797.1	20.57	18.21	12.13
10-Apr-12	88	18.48	twellman_5420	116	NA	1	2	4		508.39	14.78	<LOD	32.97
10-Apr-12	88	24.33	jackson 5434	143	NA	1	2	0		496	18	<LOD	38
10-Apr-12	88	20.89	embree 5444	105	NA	1	5	0 (first 7 shots at same spot)		797.53	20.83	56.34	12.66
10-Apr-12	89	18.27	twellman_5420	116	NA	1	2	6		681.11	16.24	<LOD	35.33
10-Apr-12	89	23.85	jackson 5434	143	NA	1	2	0		560	18	<LOD	37
10-Apr-12	89	20.84	embree 5444	105	NA	1	5	0 (first 7 shots at same spot)		835.16	21.23	17.69	12.47
10-Apr-12	90	20.71	twellman_5420	116	NA	1	2	6		397.88	13.54	<LOD	29.49
10-Apr-12	90	23.16	jackson 5434	143	NA	1	2	2		185	9	<LOD	19
10-Apr-12	90	20.87	embree 5444	105	NA	1	5	0 (first 7 shots at same spot)		754.82	19.99	83.77	12.51
10-Apr-12	91	18.61	twellman_5420	116	NA	1	2	6		271.25	11.9	<LOD	27.16
10-Apr-12	91	23.35	jackson 5434	143	NA	1	2	2		213	10	<LOD	20
10-Apr-12	91	20.78	embree 5444	105	NA	1	5	0 (first 7 shots at same spot)		820.02	20.93	29.59	12.43
10-Apr-12	92	20.81	twellman_5420	116	NA	1	2	6		312.39	12.34	<LOD	27.38
10-Apr-12	92	24.23	jackson 5434	143	NA	1	2	2		223	11	<LOD	24
10-Apr-12	92	20.92	embree 5444	105	NA	1	5	0 (first 7 shots at same spot)		806.7	20.71	33.85	12.36
10-Apr-12	93	19.12	twellman_5420	116	NA	1	2	6		176.8	9.87	<LOD	22.51
10-Apr-12	93	24.39	jackson 5434	143	NA	3	2	30		434	13	<LOD	28
10-Apr-12	93	20.79	embree 5444	105	NA	1	5	0 (first 7 shots at same spot)		837.96	21.44	34.33	12.75
10-Apr-12	94	19.91	twellman_5420	116	NA	1	2	6		182.94	8.68	<LOD	20.24
10-Apr-12	94	25.87	jackson 5434	143	NA	3	2	30		383	16	<LOD	33
10-Apr-12	94	20.21	embree 5444	105	NA	1	5	0 (first 7 shots at same spot)		1042.59	25.66	38.45	14.93
10-Apr-12	95	17.94	twellman_5420	116	NA	1	2	6		196.21	9.75	<LOD	21.56
10-Apr-12	95	22.97	jackson 5434	143	NA	3	2	30		326	12	<LOD	25
10-Apr-12	95	20.48	embree 5444	105	NA	1	5	0 (first 7 shots at same spot)		1165.91	26.65	48.08	15.4
10-Apr-12	96	19.73	twellman_5420	116	NA	1	2	6		306.2	12.21	<LOD	27.61
10-Apr-12	96	25.22	jackson 5434	143	NA	3	2	2		392	15	<LOD	31
10-Apr-12	96	21.92	embree 5444	105	NA	1	5	2		803.44	22.27	33.42	13.28
10-Apr-12	97	19.45	twellman_5420	116	NA	1	2	6		353.9	11.64	<LOD	26.52
10-Apr-12	97	23.55	jackson 5434	143	NA	3	2	2		513	16	40	12
10-Apr-12	97	23.77	embree 5444	105	NA	1	5	2		706.24	24.44	28.16	14.64
10-Apr-12	98	20.15	twellman_5420	116	NA	1	2	6		317.16	12.88	<LOD	28.82
10-Apr-12	98	24.01	jackson 5434	143	NA	3	2	2		307	13	<LOD	29
10-Apr-12	98	19.72	embree 5444	105	NA	1	5	2		785.72	19.32	34.88	11.57
10-Apr-12	99	18.43	twellman_5420	116	NA	1	2	6		170.71	7.98	<LOD	18.39
10-Apr-12	99	24.08	jackson 5434	143	NA	3	2	4		218	12	<LOD	25
10-Apr-12	99	19.64	embree 5444	105	NA	1	5	4		926.83	20.92	38.21	12.35
10-Apr-12	100	18.37	twellman_5420	116	NA	1	2	6		159.08	8.53	<LOD	18.95
10-Apr-12	100	24.08	jackson 5434	143	NA	3	2	4		208	11	<LOD	24
10-Apr-12	100	20.71	embree 5444	105	NA	1	5	4		987.68	23.44	37.29	13.73
10-Apr-12	101	20.47	twellman_5420	116	NA	1	2	6		190.03	9.18	<LOD	20.47
10-Apr-12	101	24.86	jackson 5434	143	NA	3	4	30		352	12	<LOD	26
10-Apr-12	101	20.32	embree 5444	105	NA	1	5	4		1115.28	24.72	38.2	14.28
10-Apr-12	102	56.63											
10-Apr-12	102	22.61	jackson 5434	143	NA	3	4	30		30	4	<LOD	8
10-Apr-12	102	20.18	embree 5444	105	NA	1	5	6		303.51	11.85	11.36	7.37
10-Apr-12	103	19.51	stroh_5420		2586			0		426.59	16.23	<LOD	36.68
10-Apr-12	103	23.19	jackson 5434	143	NA	3	4	30		199	10	<LOD	21
10-Apr-12	103	58.28											
10-Apr-12	104	19.32	stroh_5420	127	NA	3	1	30		256.82	11.23	<LOD	25.26
10-Apr-12	104	22.59	jackson 5434	143	NA	3	4	30		238	10	<LOD	21
10-Apr-12	104	20.16	embree 5444	105	NIST 2586	1	5	6		460.07	16.83	-5.84	9.99
10-Apr-12	105	20.54	stroh_5420	127	NA	3	1	30		254.38	11.3	27.02	8.85
10-Apr-12	105	24.01	jackson 5434	143	NA	3	4	30		159	8	<LOD	17
10-Apr-12	105	20.19	embree 5444	116	NA	1	1	0		1015.2	23.24	36.44	13.56
10-Apr-12	106	20.04	stroh_5420	127	NA	3	1	30		372.41	14.49	<LOD	32.18
10-Apr-12	106	24.29	jackson 5434	143	NA	3	4	2		218	9	<LOD	20
10-Apr-12	106	21.1	embree 5444	116	NA	1	1	0		986.35	24.47	34.89	14.3
10-Apr-12	107	21.66	stroh_5420	127	NA	3	3	30		119.23	8.2	<LOD	19
10-Apr-12	107	24.6	jackson 5434	143	NA	3	4	2		181	9	<LOD	18
10-Apr-12	107	20.32	embree 5444	116	NA	1	1	0		1062.19	24.56	46.96	14.34
10-Apr-12	108	20.35	stroh_5420	127	NA	3	3	30		136.62	8.87	<LOD	20.37
10-Apr-12	108	23.1	jackson 5434	143	NA	3	4	2		175	9	<LOD	19
10-Apr-12	108	19.61	embree 5444	116	NA	1	1	2		935.51	22.03	17.14	12.8
10-Apr-12	109	21.27	stroh_5420	127	NA	3	3	30		111.69	8.01	<LOD	18.02
10-Apr-12	109	24.17	jackson 5434	143	NA	3	4	4		188	8	<LOD	18
10-Apr-12	109	20.05	embree 5444	116	NA	1	1	2		850.06	20.38	46.93	12.22
10-Apr-12	110	21.7	stroh_5420	146	NA	1	2	0		570.67	17.65	<LOD	39.32
10-Apr-12	110	22.54	jackson 5434	133	NA	3	4	30		104	7	<LOD	15
10-Apr-12	110	21.68	embree 5444	116	NA	1	1	2		1131.75	27.96	47.58	16.19
10-Apr-12	111	19.94	stroh_5420	146	NA	1	2	0		302.33	13.02	<LOD	29.3
10-Apr-12	111	24.56	jackson 5434	133	NA	3	4	30		338	12	<LOD	25
10-Apr-12	111	18.64	embree 5444	116	NA	1	1	2		1199.64	24.3	57.5	14.08
10-Apr-12	112	19.84	stroh_5420	146	NA	1	2	0		380.49	14.17	<LOD	31.91
10-Apr-12	112	23.85	jackson 5434	133	NA	3	4	30		371	11	<LOD	24
10-Apr-12	112	19.33	embree 5444	116	NA	1	1	4		503.96	15.11	17.04	9.22
10-Apr-12	113	20.02	stroh_5420	146	NA	1	2	2		246.17	11.39	<LOD	26.41
10-Apr-12	113	22.54	jackson 5434	133	NA	3	4	2		128	7	<LOD	15
10-Apr-12	113	20.11	embree 5444	116	NA	1	1	4		454.68	14.37	5.37	8.68
10-Apr-12	114	20.41	stroh_5420	146	NA	1	2	2		322.46	13.4	<LOD	30.43
10-Apr-12	114	24.32	jackson 5434	133	NA	1	1	3		233	10	<LOD	21
10-Apr-12	114	20.53	embree 5444	116	NA	1	1	4		298.68	11.3	-2.98	6.82
10-Apr-12	115	22.41	stroh_5420	146	NA	1	2	2		305.37	13.35	<LOD	30.09
10-Apr-12	115	23.42	jackson 5434	155	NA	3	2	30		164	8	<LOD	18
10-Apr-12	115	19	embree 5444	116	NA	1	1	6		241.86	9.75	6.83	6.05
10-Apr-12	116	22.29	stroh_5420	146	NA	3	1	30		475.27	18.43	<LOD	41.43
10-Apr-12	116	22.77	jackson 5434	155	NA	3	2	30		216	9	<LOD	20
10-Apr-12	116	19.11	embree 5444	116	NA	3	3	30		110.32	6.32	8.37	4.03
10-Apr-12	117	21.72	stroh_5420	146	NA	3	1	30		473.61	15.68	<LOD	34.67
10-Apr-12	117	23.15	jackson 5434	155	NA	3	2	30		228	10	<LOD	22
10-Apr-12	117	18.48	embree 5444	116	NA	3	3	30		126.97	6.33	5.04	3.97
10-Apr-12	118	20.58	stroh_5420	146	NA	3	1	30		567.11	16.77	<LOD	36.85
10-Apr-12	118	22.8	jackson 5434	155	NA	3	2	2		179	9	<LOD	19
10-Apr-12	118	18.72	embree 5444	116	NA	3	3	30		41.06	3.96	-5.22	2.25
10-Apr-12	119	20.23	stroh_5420	146	NA	3	1	2		347.31	13.34	<LOD	30.67
10-Apr-12	119	22.89	jackson 5434	155	NA	3	2	2		186	9	<LOD	19
10-Apr-12	119	19.4	embree 5444	116	NA	3	3	2		74.01	5.12	1.16	3.15
10-Apr-12	120	21.33	stroh_5420	146	NA	3	1	2		291.16	13.32	<LOD	30.64
10-Apr-12	120	22.71	jackson 5434	155	NA	3	2	2		198	9	<LOD	19
10-Apr-12	120	19.53	embree 5444	116	NA	3	3	2		18.62	3.3	-2.66	1.85
10-Apr-12	121	21.23	stroh_5420	146	NA	3	1	2		426.2	16.1	<LOD	36.42
10-Apr-12	121	22.46	jackson 5434	154	NA	3	4	30		97	6	<LOD	14
10-Apr-12	121	20.06	embree 5444	116	NA	3	3	2		105.25	6.3	13.11	4.13
10-Apr-12	122	22.41	stroh_5420	143	NA	1	1	2		154.3	9.25	<LOD	21.07
10-Apr-12	122	22.69	jackson 5434	154	NA	3	4	30		386	12	<LOD	25
10-Apr-12	122	20.18	embree 5444	116	NA	3	3	4		234.8	10.4	11.52	6.53
10-Apr-12	123	52.52											
10-Apr-12	123	22.19	jackson 5434	154	NA	3	4	30		389	11	<LOD	23
10-Apr-12	123	20.94	embree 5444	116	NA	3	4	2		156.72	9.1	19.91	5.97
10-Apr-12	124	53.83											
10-Apr-12	124	22.31	jackson 5434	154	NA	3	4	30		289	10	<LOD	21
10-Apr-12	124	20.09	embree 5444	106	NA	1	5	0		608.56	17.14	7.94	10.21
10-Apr-12	125	20.48	jackson_5420		2586					457.43	16.48	<LOD	35.91
10-Apr-12	125	24.62	twellman_5434		2711					1172	26	95	18
10-Apr-12	125	19.03	embree 5444	106	NA	1	5	2		301.22	11.29	0.72	6.87
10-Apr-12	126	55.11											
10-Apr-12	126	23.33	twellman_5434		2586					416	16	<LOD	33
10-Apr-12	126	55.52											
10-Apr-12	127	19.54	jackson_5420		2710					5812.08	90.8	599.5	49.83
10-Apr-12	127	23.35	twellman_5434		2586					440	16	<LOD	34
10-Apr-12	127	20.17	jackson 5444		NIST 2586					395.86	15.44	23.02	9.62
10-Apr-12	128	19.39	jackson_5420		2711					1163.37	27.54	98.9	19.92
10-Apr-12	128	24.22	twellman_5434		4315					281	11	<LOD	23
10-Apr-12	128	20.21	jackson 5444		NIST 2586					415.1	15.82	22.29	9.81
10-Apr-12	129	18.89	jackson_5420		4315					284.66	11.78	<LOD	26.65
10-Apr-12	129	22.87	twellman_5434		4315					298	11	<LOD	24
10-Apr-12	129	4.33	jackson 5444		NA					537.41	35.99	6.99	21.62
10-Apr-12	130	19.41	jackson_5420		5861					54.5	6.59	56.18	6.38
10-Apr-12	130	22.89	twellman_5434		4315					276	11	<LOD	24
10-Apr-12	130	55.54											
10-Apr-12	131	19.66	jackson_5420		2586					460.54	17.01	<LOD	37.33
10-Apr-12	131	22.63	twellman_5434		2710					5871	88	664	46
10-Apr-12	131	20.16	jackson 5444	127	NA	3	4	30		362.05	13.57	17.39	8.45
10-Apr-12	132	20.25	jackson_5420		Blank					<LOD	9.38	<LOD	6.03
10-Apr-12	132	23.18	twellman_5434		5861					71	7	53	6
10-Apr-12	132	19.49	jackson 5444	127	NA	3	4	30		741.81	19.36	14.15	11.46
10-Apr-12	133	22.87	twellman_5434		blank					<LOD	9	<LOD	6
10-Apr-12	133	19.73	jackson 5444	127	NA	3	4	30		450.01	14.6	1.25	8.77
10-Apr-12	134	20.01	jackson 5444	127	NA	3	4	30		338.65	13.07	-0.95	7.9
10-Apr-12	135	20.33	jackson 5444	127	NA	3	4	2		168.14	8.85	-1.17	5.39
10-Apr-12	136	19.77	jackson 5444	127	NA	3	4	2		159.36	8.76	10	5.56
10-Apr-12	137	20.92	wilder 5444	143	NA	1	1	0		492.51	15.71	29.04	9.74
10-Apr-12	138	22.38	wilder 5444	143	NA	1	1	0		454.42	16.57	45.66	10.56
10-Apr-12	139	20.2	wilder 5444	143	NA	1	1	0		657.62	17.6	21.19	10.57
10-Apr-12	140	20.74	wilder 5444	143	NA	1	1	0		426.35	13.47	24.74	8.4
10-Apr-12	141	20.44	wilder 5444	143	NA	1	1	0		210.13	10.35	17.15	6.62
10-Apr-12	142	20.34	wilder 5444	143	NA	1	1	2		146.41	8.27	6.58	5.2
10-Apr-12	143	22.34	wilder 5444	143	NA	1	1	2		171.43	10.04	9.56	6.34

Reading	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-
83	-23.05	28.74	787.41	29.64	-53.4	67.02	ND		-4.83	16.86	10.86	7.92	21251.93	381.4	109.22	15.64	-186.91	22.38	44.15	94.1	ND	
84	<LOD	67.08	621.12	19.83	<LOD	160.09	<LOD	751.79	<LOD	39	<LOD	16.62	15341.33	227.82	88.6	10.99	<LOD	46.29	<LOD	187.54	<LOD	0
84	<LOD	68	224	11	<LOD	101	<LOD	320	<LOD	34	<LOD	12	9595	163	<LOD	23	<LOD	52	169	51	<LOD	0
84	-26.16	22.83	432.77	17.2	15.48	52.08	ND		-13.13	12.4	3.89	5.35	15076.68	235.77	59	10.12	-153.15	17.59	204.46	65.77	ND	
85	<LOD	64.85	551.16	17.92	<LOD	140.38	<LOD	749.85	43.79	13.06	<LOD	15.59	16054.88	225.89	72.97	10.04	<LOD	44.39	<LOD	184.37	<LOD	0
85	<LOD	63	349	13	<LOD	117	<LOD	345	<LOD	34	<LOD	12	12271	179	45	8	<LOD	49	211	53	<LOD	0
85	-0.82	23.34	392.59	16.57	-32.67	50.75	ND		1.58	13.09	-2.9	4.88	16372.17	252.69	30.53	9	-123.19	17.98	111.82	67.77	ND	
86	<LOD	66.96	490.21	17.46	<LOD	138.52	<LOD	804.16	<LOD	38.48	<LOD	14.32	14936.37	222.51	63.95	9.97	<LOD	45.77	<LOD	187.66	<LOD	0
86																						
86	0.64	22.28	477.6	17.66	36.07	51.92	ND		-9.19	11.65	-4.56	4.7	15276.49	232.6	41.49	9.14	-139.82	17.26	63.79	62.81	ND	
87	<LOD	76.77	263.07	14.45	<LOD	179.63	<LOD	986.24	<LOD	45.43	<LOD	18.83	18313.14	287.52	50.72	10.61	<LOD	53.77	<LOD	235.6	<LOD	0
87	<LOD	80	263	15	<LOD	142	<LOD	445	<LOD	41	<LOD	18	15602	262	<LOD	27	<LOD	63	<LOD	222	<LOD	0
87	29.32	23.04	973.73	27.12	171.35	62.04	ND		-13.8	12.85	1.61	5.89	17671	270.99	142.77	13.69	-185.54	17.98	137.83	71.65	ND	
88	<LOD	64.57	407.44	15.81	<LOD	126.68	<LOD	694.12	<LOD	33.09	<LOD	15.32	11768.61	188.84	66.61	9.91	<LOD	44.83	<LOD	166.88	<LOD	0
88	<LOD	86	353	18	<LOD	147	<LOD	481	<LOD	52	<LOD	20	17242	304	47	12	<LOD	68	<LOD	247	<LOD	0
88	-8.02	24.03	981.69	27.58	204.15	65.45	ND		-17	12.8	-1.33	5.85	17962.31	277.55	127.9	13.38	-167.68	18.33	109.07	72.71	ND	
89	<LOD	61.82	510	16.66	<LOD	128.6	737.36	242.45	<LOD	34.91	<LOD	13.33	12328.74	183.04	74.83	9.69	<LOD	42.6	<LOD	160.03	<LOD	0
89	<LOD	81	326	16	<LOD	157	<LOD	497	<LOD	51	<LOD	19	21825	332	42	11	<LOD	63	459	89	<LOD	0
89	14.65	23.7	982.08	27.43	37.05	56.55	ND		-24.11	12.4	-3.72	5.61	17604.93	272	165.07	14.51	-179.28	18.15	136.64	71.99	ND	
90	<LOD	68.89	442.86	17.13	<LOD	146.24	<LOD	824.75	<LOD	35.44	<LOD	12.67	11208.32	190.23	101.83	11.64	<LOD	47.51	<LOD	173.75	<LOD	0
90	<LOD	62	192	10	<LOD	98	<LOD	304	<LOD	30	<LOD	13	10798	169	32	8	<LOD	49	<LOD	152	<LOD	0
90	7.28	23.36	1013.94	27.8	128.4	59.84	ND		-31.97	11.99	0.45	5.9	17590.81	270.62	160.6	14.28	-176.11	18.06	156.28	71.89	ND	
91	<LOD	75.56	226.13	13.11	<LOD	189.56	<LOD	970.04	<LOD	44.83	<LOD	13.26	16359.85	258.54	65.32	11.01	78.02	17.59	<LOD	211.18	<LOD	0
91	<LOD	65	178	10	<LOD	100	<LOD	260	<LOD	30	<LOD	13	7466	140	<LOD	21	<LOD	51	<LOD	134	<LOD	0
91	-1.2	23.32	976.77	27.25	96.59	59.53	ND		20.07	13.93	6.26	6.24	17810.13	273.23	133.06	13.48	-194.77	18	-3.51	70.23	ND	
92	<LOD	70.62	368.4	16.03	<LOD	158.82	<LOD	827.65	<LOD	38.39	<LOD	15.55	13128.49	216.87	51.66	10.05	<LOD	49.43	<LOD	187.2	<LOD	0
92	<LOD	75	170	12	<LOD	120	<LOD	375	<LOD	38	<LOD	15	10491	197	<LOD	27	<LOD	59	<LOD	176	<LOD	0
92	27.24	23.37	971.39	27.12	125.88	60.87	ND		5.39	13.49	-1.71	5.71	17764.05	272.28	136.64	13.55	-176.84	18.06	61.03	70.89	ND	
93	<LOD	76.2	218.07	12.93	<LOD	168.31	<LOD	961.45	<LOD	44.73	<LOD	16.35	14223.59	237.22	<LOD	25.81	60.31	17.65	<LOD	202.83	<LOD	0
93	<LOD	64	323	13	<LOD	108	<LOD	370	<LOD	38	<LOD	13	14309	206	25	8	<LOD	51	343	61	<LOD	0
93	32.03	23.91	971.05	27.47	215.08	64.91	ND		-16.61	13.57	10.91	6.63	18020.77	278.65	140.72	13.85	-172.6	18.32	250.71	74.82	ND	
94	<LOD	62.4	208.52	11.04	<LOD	140.49	<LOD	744.26	<LOD	29.88	<LOD	12.6	10906.99	173.67	29.57	8.03	<LOD	43.38	<LOD	153.01	<LOD	0
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94	13.49	26.31	1082.25	30.78	-43.38	65.61	ND		3.17	17.36	-4.68	6.35	29125.96	418.9	161.16	15.7	-39.79	20.28	169.39	97.15	ND	
95	<LOD	71.72	198.64	11.77	<LOD	176.16	<LOD	937.42	<LOD	38.8	<LOD	15.11	12415.59	204.84	56.61	10.03	<LOD	49.53	<LOD	180.69	<LOD	0
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95	34.61	25.08	1423.66	35.03	74.23	66.11	ND		32.96	16.99	7.06	7.11	24444.05	357.27	191.43	16.25	-107.37	19.31	97.27	86.35	ND	
96	<LOD	70.04	265.94	13.65	<LOD	151.93	<LOD	829.42	<LOD	33.13	<LOD	15.26	8686.4	166.76	<LOD	23.59	<LOD	48.66	<LOD	150.88	<LOD	0
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96	-49.47	25.34	922.91	28.38	135.52	67.15	ND		-0.49	15.1	-1.46	6.17	18150.83	298.31	87.03	12.76	-157.06	19.65	194.17	79.01	ND	
97	<LOD	61.26	382.54	14.46	<LOD	132.62	<LOD	713.53	<LOD	28.32	<LOD	12.5	8306.62	144.12	<LOD	22.47	<LOD	42.45	<LOD	135.29	<LOD	0
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97	17.75	30.13	920.56	33.33	-36.95	65.89	ND		2.31	17.34	-4.87	6.89	16760.76	333.16	103.42	15.91	-129.1	23.51	146.46	88.67	ND	
98	<LOD	73.56	306.4	15.14	<LOD	155.26	<LOD	759.12	<LOD	37.58	<LOD	14.72	9696.63	185.03	<LOD	26.64	<LOD	50.42	<LOD	167.65	<LOD	0
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98	42.69	22.23	888.17	24.4	56.65	53.31	ND		17.59	12.87	-0.19	5.44	17939.84	259.04	82.83	10.96	-131.42	17.24	-48.32	66.02	ND	
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99	-5.86	21.55	1298.4	29.74	-25.01	50.27	ND		3.31	12.56	-3.5	5.45	19205.73	268.27	91.9	11.21	-206.67	16.67	3.53	68.06	ND	
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100	41.37	23.74	1179.42	30.45	105.13	62.97	ND		-8.89	14.19	2.26	6.3	20561.54	304.71	128.18	13.51	-156.85	18.37	173.47	78.09	ND	
101	<LOD	66.45	113.36	8.78	<LOD	134.83	<LOD	703.06	<LOD	31.22	<LOD	11.13	6946.87	137.48	<LOD	21.92	<LOD	45.9	<LOD	131.81	<LOD	0
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101	4.17	22.91	1386.46	32.81	-13.31	57.4	ND		6.62	15.05	3.17	6.44	22814.28	322.83	122.43	13.19	-159.52	18.04	163.77	80.4	ND	
102																						
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102	-25.8	22.6	358.06	15.37	67.04	52.49	ND		-0.11	11.42	2.63	4.99	13150.84	211.21	45.9	9.3	-134.42	17.34	15.64	58.13	ND	
103	<LOD	81.19	317.65	16.78	439.82	95.4	<LOD	1253.37	87.47	23.67	<LOD	18.32	48125.54	636.85	61.76	12.18	<LOD	57.61	<LOD	395.04	<LOD	0
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104	40.76	27.22	338.45	17.28	364.15	96.86	ND		52.62	23.24	2.93	6.07	49046.11	651.01	73.33	12.82	52.68	21.34	346.76	128.67	ND	
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105	29.17	23.18	1022.51	27.47	83.25	60.13	ND		-1.69	14.19	3.06	6.12	21522.83	307.33	151.31	13.88	-192.03	17.72	164.62	77.68	ND	
106	<LOD	76.69	324.76	16.2	<LOD	184.69	<LOD	1003.01	<LOD	43.29	<LOD	17.02	16286.78	269.63	34.69	10.09	<LOD	53.99	<LOD	219.28	<LOD	0
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106	36.09	25.46	933.87	27.97	26.93	60.34	ND		1.26	14.81	-1.89	6.19	19451.98	306.06	170.44	15.53	-93.2	19.56	127.21	78.8	ND	
107	<LOD	71.92	196.86	12.16	<LOD	176.11	<LOD	900.75	<LOD	39.74	<LOD	13.32	14280.57	234.72	<LOD	26.19	<LOD	50.12	<LOD	198.03	<LOD	0
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108	<LOD	74.29	165.42	11.53	<LOD	176.91	<LOD	884.33	<LOD	39.17	<LOD	15.94	13187.6	227.7	<LOD	27.17	<LOD	51.57	<LOD	199.13	<LOD	0
108	<LOD	66	132	9	<LOD	102	<LOD	314	<LOD	30	<LOD	13	9766	162	<LOD	21	<LOD	52	178	50	<LOD	0
108	45.15	23.58	953.31	26.25	-45.87	51.69	ND		53.16	15.66	1.42	5.89	18433.97	273.09	132.13	13.26	-96.93	18.06	79.57	70.86	ND	
109	<LOD	72.67	152.33	10.85	<LOD	158.72	<LOD	965.12	<LOD	41.81	<LOD	14.25	13254.65	223.35	<LOD	24.75	<LOD	51.4	<LOD	194.23	<LOD	0
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109	21.3	22.53	805.32	23.39	7.29	51.12	ND		15.42	13.77	-0.2	5.51	16267.17	244.29	113.15	12.15	-166.5	17.26	203.29	66.9	ND	
110	<LOD	74.17	382.09	17.19	<LOD	172.09	<LOD	862.29	<LOD	41.46	<LOD	17.08	16649.92	267.65	63.87	11.08	<LOD	51.9	<LOD	228.75	<LOD	0
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110	-8.39	26.82	1388.48	36.84	39.57	68.84	ND		8.13	17.14	-8.74	6.46	25164.19	390.3	190.84	17.3	-136.42	20.51	98.4	93.35	ND	
111	<LOD	77.01	272.38	14.81	<LOD	193.76	<LOD	1069.68	<LOD	44.63	<LOD	17.28	20125.85	310.25	43.88	10.35	<LOD	53.23	<LOD	250.93	<LOD	0
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111	4.8	22.33	1125.84	27.49	-30.29	52.67	ND		43.95	15.25	4.84	6.14	21693.36	292.61	179.86	14.18	-148.86	17.01	91.68	73.25	ND	
112	<LOD	74.56	242.74	13.69	<LOD	183.9	<LOD	962.18	<LOD	40.73	<LOD	14.96	17225.61	271.13	50.19	10.32	<LOD	51.7	<LOD	226.49	<LOD	0
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113	<LOD	74.01	220.09	12.95	<LOD	167.42	<LOD	895.52	<LOD	38.61	<LOD	15.86	14411.12	238.5	<LOD	26.47	<LOD	50.91	<LOD	203.69	<LOD	0
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113	7.66	22.34	439.95	16.84	-56.75	44.22	ND		-2.22	11.43	3.24	5.12	12505.02	201.95	51.65	9.45	-148.35	17.07	90.49	57.25	ND	
114	<LOD	75.44	262.02	14.52	<LOD	175.67	1203.19	333.57	<LOD	44.84	<LOD	17.81	14929.8	252.43	<LOD	28.17	<LOD	52.68	<LOD	217.19	<LOD	0
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114	28.65	21.11	275.25	12.97	-27.78	39.83	ND		3.63	9.5	-11.54	3.51	6920.03	135.45	24.52	7.74	-204.66	16.28	-4.8	41.07	ND	
115	<LOD	76.98	267.85	14.98	<LOD	185.81	<LOD	952.63	<LOD	41.39	<LOD	17.58	17141.92	283.33	38.53	10.27	<LOD	53.51	<LOD	236.71	<LOD	0
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115	29.93	20.57	213.1	10.98	-5.16	42.14	ND		12.93	10.06	-1.35	4.14	9008.35	151.81	22.53	7.36	-157.56	15.74	-12.86	44.24	ND	
116	<LOD	84.7	460.86	21.65	<LOD	183.55	<LOD	1124.28	<LOD	46.59	<LOD	17.14	16171.55	302.6	43.34	11.86	<LOD	59.55	<LOD	250.81	<LOD	0
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116	29.4	18.07	81.23	6.61	-41.18	32.17	ND		5.5	8.05	-6.49	3.12	6048.75	110.32	11.84	5.96	-291.74	13.87	-2.4	33.94	ND	
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121	-3.87	18.13	122.91	8.01	-51.2	29.8	ND		1.06	7.17	-7.17	3.12	4283.06	92.39	8.88	5.86	-334.8	13.95	-49.57	28.5	ND	
122	<LOD	71.22	200.44	12.43	<LOD	168.33	<LOD	839.19	<LOD	36.62	<LOD	13.69	11068.31	201.26	<LOD	26.83	<LOD	50.37	<LOD	185	<LOD	0
122	<LOD	59	422	14	<LOD	91	<LOD	267	<LOD	25	<LOD	13	7183	124	<LOD	19	<LOD	46	<LOD	120	<LOD	0
122	-53.89	22.75	189.02	11.24	17.57	46.5	ND		5.28	10.99	0.32	4.62	10717.42	183.34	19.81	7.88	-106.52	17.31	10.83	52.29	ND	
123																						
123	<LOD	56	392	13	<LOD	93	<LOD	274	<LOD	26	<LOD	12	7469	121	<LOD	20	<LOD	44	120	39	<LOD	0
123	-4.16	24.11	137.19	10.24	-40.6	47.22	ND		16.57	12.41	1.97	4.94	11200.83	198.22	10.76	7.92	-78.75	18.4	18.34	56.21	ND	
124																						
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124	30.9	22.75	633	20.77	135.29	58.9	ND		26.85	14.05	-4.64	4.94	17288.95	257.3	108.13	12.07	-153.9	17.49	86.95	67.84	ND	
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125	25.88	21.77	273.78	12.89	68.43	49.21	ND		4.85	10.92	0.16	4.57	10462.62	173.58	48.2	8.96	-106.39	16.67	61.98	50.67	ND	
126																						
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127	<LOD	90.33	7284.99	118.77	<LOD	297.89	1563.09	516.55	107.68	25.53	<LOD	48.91	39480.55	597.46	3106.88	73.38	105.77	21.57	<LOD	375.57	<LOD	0
127	<LOD	80	325	16	326	78	<LOD	623	<LOD	67	<LOD	16	50270	636	51	12	<LOD	64	778	132	<LOD	0
127	27.1	26.86	322.89	16.68	287.95	91.04	ND		48.91	23.02	-3.46	5.44	48251.86	635.49	36.42	11	33.34	20.96	433.48	127.16	ND	
128	<LOD	81.42	316.34	16.56	<LOD	211.35	<LOD	1149.7	<LOD	53.1	<LOD	22.51	24993.94	374.83	112.63	13.75	89.95	19.03	<LOD	286.49	<LOD	0
128	<LOD	68	836	22	<LOD	113	<LOD	303	<LOD	27	<LOD	16	2805	79	96	11	<LOD	53	<LOD	80	<LOD	0
128	71.42	26.57	315.17	16.52	236.2	89.92	ND		35.85	21.75	9.28	6.43	48268.87	635.6	65.37	12.23	25.43	20.93	201.19	125.07	ND	
129	<LOD	73.26	894.54	25.31	<LOD	164.15	<LOD	692.6	<LOD	31.48	<LOD	16.54	2902.98	90.18	135.79	13.18	53.26	16.92	<LOD	91.68	<LOD	0
129	<LOD	70	855	23	<LOD	103	<LOD	286	<LOD	27	<LOD	15	2845	82	103	11	<LOD	54	<LOD	87	<LOD	0
129	30.4	51.35	919.35	56.91	-0.56	114.28	ND		6.6	30.08	-2.78	11.7	15619.11	539.4	29.49	20.22	-73.32	40.2	179.36	148.63	ND	
130	103.05	27.34	97.58	14.62	1350.53	112.8	<LOD	828.36	984.71	42.67	<LOD	17.39	16608.74	272.83	2830.65	61.19	119.2	18.66	<LOD	222.41	<LOD	0
130	<LOD	70	859	23	<LOD	112	<LOD	304	<LOD	27	<LOD	14	2835	82	98	11	<LOD	54	<LOD	88	<LOD	0
130																						
131	<LOD	81.71	339.53	17.46	612.72	105.14	<LOD	1381.54	101.88	24.86	<LOD	19.76	50730.9	670.18	65.83	12.54	<LOD	57.77	<LOD	409.29	<LOD	0
131	<LOD	89	7176	112	<LOD	222	<LOD	673	<LOD	66	104	17	39068	569	2888	67	76	24	<LOD	366	<LOD	0
131	-12.19	24.22	589.16	20.71	174.55	62.94	ND		-14.89	12.84	8.73	5.95	15055.48	242.46	51.95	10.29	-44.46	18.71	181.97	67.47	ND	
132	<LOD	63.55	<LOD	9.74	<LOD	99.21	<LOD	453.88	<LOD	18.33	<LOD	10.1	<LOD	53.29	<LOD	15.59	<LOD	43.55	<LOD	29.81	<LOD	0
132	89	26	119	13	848	80	<LOD	398	977	41	<LOD	16	15320	242	2663	54	116	20	288	70	<LOD	0
132	-0.52	23.57	1252.27	30.56	-65.27	51.29	ND		3.76	13.78	-0.13	5.87	18519.92	274.21	107.07	12.47	-57.54	18.3	81.36	71.29	ND	
133	<LOD	64	<LOD	9	<LOD	73	<LOD	212	<LOD	20	<LOD	13	<LOD	48	<LOD	16	<LOD	49	<LOD	27	<LOD	0
133	43.13	23.19	960.75	25.9	-20.11	51.22	ND		-16.35	11.82	5.23	5.72	14536.61	227.96	69.19	10.64	-62.36	17.92	117.3	63.14	ND	
134	10.53	24.43	392.57	16.8	15.5	53.59	ND		33.79	14.31	0.53	5.21	13140.95	220.12	52.88	10.36	-13.68	18.77	72.89	61.69	ND	
135	19.78	22.21	242.04	12.5	83.3	48.38	ND		5.61	10.85	-0.41	4.48	8759.87	159.98	22.51	7.97	-105.57	17.16	60.26	48.14	ND	
136	9.96	23.23	212.15	11.92	67.97	50.96	ND		-2.15	11.13	-2.78	4.41	10218.06	178.59	24.02	8.23	-67.36	17.61	85.02	52.7	ND	
137	21.99	23.33	400.58	16.89	-50.35	47.53	ND		-5.82	11.61	3.25	5.41	14794.48	237.43	91.61	11.57	-156.75	17.91	-20.87	63.17	ND	
138	-6.17	25.23	411.05	18.81	56.12	62.74	ND		27.24	15.34	-3.89	5.37	16674.53	284.18	81.13	12.45	-213.39	19.51	27.42	74.26	ND	
139	40.85	22.33	481.66	17.78	-60	46.3	ND		2.56	11.42	-3.29	4.92	13384.49	212.75	82.82	10.82	-143.19	17.25	-8.07	58.01	ND	
140	19.49	20.6	434.7	16.25	12.1	43.77	ND		24.51	11.33	-1.45	4.55	9448.26	163.43	102.06	10.97	-270.54	15.9	35.65	47.97	ND	
141	74.68	24.26	230.45	12.89	15.24	53.32	ND		40.88	14.06	-8	4.21	15454.79	244.3	29.12	9.01	-70.87	18.35	-54.26	64.01	ND	
142	23.8	22.08	195.6	11.26	-55.81	40.46	ND		-1.61	10.33	-5.44	3.99	9008.21	162.2	26.91	8.05	-161.42	16.82	60.78	48.49	ND	
143	-17.44	24.94	212.06	13.19	-0.06	51.83	ND		-2.75	12.09	-2.75	4.82	11726.68	217.27	6.33	8.06	-160.95	19.13	31.79	61.13	ND	

Reading	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
83	323.14	60.89	5.01	4.64	44.8	3.61	105.99	45.93	1.18	2.62	6.97	41.85	133.5	5.63	2255.88	458.83	183.41	6.29
84	170.18	38.02	<LOD	10.03	24.99	2.27	<LOD	106.61	<LOD	5.93	<LOD	102.92	128.89	4.15	<LOD	711.88	106.98	3.89
84	187	34	<LOD	10	36	2	<LOD	106	<LOD	5	<LOD	99	76	3	1444	340	203	5
84	271.43	43.95	4.11	3.67	45.88	2.84	17.41	36.61	-0.34	1.74	10.99	33.24	81.55	3.57	1696.88	329.27	245.92	5.59
85	305.79	41.19	<LOD	9.88	35.1	2.41	<LOD	104.76	<LOD	5.05	<LOD	99.89	105.5	3.65	1280.93	252.16	156.65	4.24
85	250	36	<LOD	9	31	2	<LOD	98	<LOD	4	<LOD	91	87	3	2365	373	177	4
85	320.5	46.6	3.03	3.71	46.71	2.89	-0.91	37.41	-2.19	1.61	66.41	33.89	84	3.66	1606.09	330.68	249.55	5.7
86	172.72	37.33	<LOD	10.02	33.05	2.44	<LOD	107.44	<LOD	5.28	<LOD	103.28	106.25	3.78	<LOD	742.98	140.03	4.2
86																		
86	313.35	44.59	3.41	3.56	39.4	2.63	29.11	36.11	-1.77	1.65	58.48	32.85	87.57	3.59	1736.29	320.71	230.54	5.31
87	408.69	52.88	<LOD	12.14	64.81	3.5	<LOD	124.85	<LOD	5.49	<LOD	120.09	151.86	5	2114.69	337.27	363.57	7.34
87	313	48	<LOD	12	40	3	<LOD	128	<LOD	5	<LOD	118	94	4	2321	476	275	6
87	211.26	44.61	-0.21	3.54	15.56	2.14	29.65	37.02	1.17	2.1	-9.76	33.4	139.68	4.66	1556.7	316.87	71.73	3.76
88	270.42	38.98	<LOD	10.33	30.6	2.34	<LOD	101.56	<LOD	4.94	<LOD	98.25	84.61	3.4	942.63	233.41	222.8	5.03
88	491	59	16	4	43	3	<LOD	135	<LOD	7	<LOD	125	126	5	1973	504	215	6
88	223.5	46.12	9.09	3.7	15.42	2.17	82.64	38.03	-0.28	2.08	67.95	34.63	144.22	4.8	1241.47	322.03	79.47	3.92
89	175.96	33.96	<LOD	9.36	29.79	2.2	<LOD	98.52	<LOD	4.55	<LOD	95.23	106.06	3.53	<LOD	626.4	143.33	3.96
89	464	56	<LOD	12	45	3	<LOD	128	<LOD	6	<LOD	118	158	5	3487	545	221	6
89	210.08	44.51	4.21	3.62	12.96	2.08	65.81	37.3	-4	1.84	-0.11	34.01	144.87	4.78	926.43	310.27	77.95	3.88
90	302.91	41.98	<LOD	10.62	33.92	2.51	<LOD	108.99	<LOD	4.76	<LOD	105.73	111.71	3.98	<LOD	748.98	204.14	5.05
90	257	35	13	3	29	2	<LOD	95	<LOD	3	<LOD	88	69	3	1448	324	129	4
90	167.09	42.77	0.22	3.54	14.42	2.11	-32.59	36.97	-0.56	2.02	83.02	34.04	149.63	4.83	1376.1	306.93	66.91	3.72
91	518.2	54.62	<LOD	12.03	57.48	3.23	<LOD	124.93	<LOD	5.35	<LOD	119.77	126.39	4.46	2731.36	344.84	386.97	7.36
91	139	30	16	3	27	2	<LOD	100	<LOD	4	<LOD	92	72	3	1048	287	139	4
91	170.86	43.13	6.72	3.63	10.77	2	4.55	37.32	-6.05	1.69	-19.53	33.62	138.92	4.67	918.75	310.77	71.86	3.78
92	565.09	52.77	<LOD	11.28	39.56	2.72	<LOD	115.19	<LOD	4.56	<LOD	110.22	123.82	4.29	2077.97	297.59	250.17	5.71
92	237	41	14	4	30	2	<LOD	115	<LOD	5	<LOD	106	72	4	1318	389	151	5
92	135.7	41.78	-2.14	3.52	14.48	2.11	58.22	36.88	-5.14	1.74	75.68	33.61	142.12	4.71	576.43	294.87	71.6	3.77
93	460.03	51.93	<LOD	12.18	61.85	3.34	<LOD	125.47	<LOD	5.07	<LOD	120.06	118.33	4.36	2492.4	338.36	390.92	7.46
93	259	38	<LOD	10	41	2	<LOD	102	<LOD	5	<LOD	94	106	4	1810	382	255	5
93	225.6	46.1	3.29	3.63	15.58	2.18	-42.18	38.43	-2.82	1.94	-25.8	34.77	148.88	4.88	1674.6	317.09	71.36	3.83
94	468.61	44.12	<LOD	9.9	39.03	2.42	<LOD	98.48	<LOD	4.25	<LOD	94.51	78.69	3.17	1487.01	253.44	228.91	4.9
94	509	59	<LOD	13	44	3	<LOD	135	<LOD	6	<LOD	123	110	5	3779	558	277	7
94	225.9	53.66	-7.04	3.8	17.49	2.48	49.08	43.18	0.83	2.49	85.48	38.6	427.73	9.1	2350.42	423.93	119.57	5.06
95	616.43	53.72	<LOD	11.36	53.53	2.98	<LOD	118.9	<LOD	4.68	<LOD	113.98	108.82	3.96	1655.57	304.64	350.85	6.63
95	359	43	11	3	45	3	<LOD	108	<LOD	5	<LOD	98	106	4	2204	411	261	5
95	260.81	51.78	9.07	3.82	16.5	2.33	25.67	40.3	-3.8	2.22	67.63	36.73	186.25	5.61	794.61	341.55	75.57	4.05
96	582.64	51.71	<LOD	10.92	33.89	2.56	<LOD	112.36	<LOD	4.82	<LOD	109.54	68.23	3.32	1229.01	273.6	230.39	5.43
96	441	52	<LOD	12	46	3	<LOD	123	<LOD	5	<LOD	113	121	4	2828	489	309	6
96	333.87	53.35	4.4	3.98	28.43	2.72	43.9	40.87	-3.83	1.98	18.77	36.7	112.17	4.56	1344.72	360.64	139.05	4.92
97	592.57	46.07	<LOD	9.82	34.13	2.28	<LOD	96.82	<LOD	4.57	<LOD	93.24	65.15	2.89	901.98	230	197.74	4.49
97	425	50	<LOD	11	29	2	<LOD	121	<LOD	5	<LOD	110	104	4	2492	480	182	5
97	297.66	59.42	6.47	4.73	25.9	3.11	79.32	48.38	2.24	2.69	84.5	43.84	108.66	5.3	624.71	375.74	115.16	5.45
98	565.13	53.23	<LOD	11.47	41.46	2.85	<LOD	118.79	<LOD	5.19	<LOD	112.51	68.43	3.45	1176.95	263.54	220.47	5.52
98	360	47	24	4	39	3	<LOD	121	<LOD	6	<LOD	109	108	4	1399	410	218	5
98	350.21	46.69	0.11	3.4	24.39	2.27	21.15	35.64	0.37	1.96	50.09	32.16	99.32	3.78	1635.5	302.71	126.85	4.15
99	730.11	46.83	<LOD	9.39	37.05	2.24	<LOD	96.81	<LOD	3.9	<LOD	93.2	58.39	2.67	<LOD	560.64	209.22	4.44
99	291	45	<LOD	12	30	3	<LOD	129	<LOD	5	<LOD	119	120	5	2676	453	159	5
99	373.26	47.29	3.06	3.37	25.8	2.29	25.72	33.64	-0.17	1.99	-19.6	30.39	99.55	3.74	924.86	290.61	108.81	3.89
100	753.06	53.23	<LOD	10.62	37.76	2.5	<LOD	110.38	<LOD	4.09	<LOD	105.38	73.79	3.24	1135.59	236.29	283.39	5.68
100	323	46	<LOD	11	35	3	<LOD	122	<LOD	6	<LOD	113	106	4	1880	418	172	5
100	251.03	48.1	-1.73	3.67	34.3	2.72	17.94	37.33	-1.15	2.16	49.91	33.99	113.84	4.3	1479.78	347.99	158.31	4.83
101	638.21	49.6	<LOD	10.39	34.86	2.42	<LOD	106.39	<LOD	3.96	<LOD	102.97	61.2	2.99	1240.51	242.99	228.17	5.08
101	171	33	15	3	24	2	<LOD	107	<LOD	5	<LOD	99	98	4	1327	337	117	4
101	244.54	47.64	4.21	3.66	30.97	2.6	-33.89	36.29	-1.77	2.18	47.96	33.49	126.18	4.43	1616.31	351.72	152.05	4.69
102																		
102	<LOD	49	20	3	10	1	<LOD	74	<LOD	3	<LOD	69	54	2	<LOD	516	41	2
102	288.25	43.03	6.8	3.61	38.63	2.6	-0.04	36.23	-1.9	1.47	-5.73	32.76	68.69	3.27	1989.08	331.09	230.77	5.32
103	637.28	75.28	<LOD	12.61	48.46	3.32	<LOD	133.05	<LOD	5.96	<LOD	127.77	85.55	4.12	4179.43	453.87	251.9	6.4
103	248	39	16	3	46	3	<LOD	108	<LOD	4	<LOD	99	88	3	2452	410	210	5
103																		
104	395	46.26	<LOD	11.09	36.09	2.62	<LOD	116.13	<LOD	4.62	<LOD	111.49	69.34	3.35	1225.34	268.78	237.01	5.51
104	444	44	<LOD	10	44	2	<LOD	102	<LOD	4	<LOD	94	98	3	2853	410	245	5
104	674.65	77.32	-6.52	4.09	51.78	3.37	17.31	45.12	0.21	2.09	127.98	41.52	80.77	4.04	5432.77	585.51	262.49	6.5
105	606.3	55.37	<LOD	11.75	53.96	3.07	<LOD	116.93	<LOD	5.52	<LOD	114.06	100.18	3.93	2574.67	327.98	356.95	6.87
105	178	29	10	3	25	2	<LOD	92	<LOD	4	<LOD	86	50	3	939	266	128	3
105	266.05	47.57	2.07	3.54	20.29	2.28	21.23	36.43	-3.28	2	8.85	33.13	148.65	4.74	669.83	298.72	93.56	3.99
106	545.36	57.6	<LOD	12.54	48.31	3.16	<LOD	126.8	<LOD	5.45	<LOD	122.06	104.4	4.28	2558.07	354.16	303.9	6.75
106	313	38	<LOD	9	41	2	<LOD	102	<LOD	4	<LOD	93	77	3	1499	341	206	4
106	297.69	50.97	2.12	3.8	16.69	2.33	49.46	40.72	-1.36	2.24	146.09	37.33	148.89	5.08	2037.47	373.67	95.05	4.3
107	392.26	48.95	<LOD	11.76	48.74	2.99	<LOD	114.53	<LOD	4.53	<LOD	111.03	84.75	3.71	2209.73	317.85	265.65	5.98
107	127	28	<LOD	9	30	2	<LOD	99	<LOD	4	<LOD	91	92	3	1472	299	144	4
107	259.61	49.7	1.15	3.64	23.58	2.46	46.42	38.02	-3.01	2.12	43.05	34.72	148.62	4.88	1253.33	329.48	93.55	4.11
108	308.63	46.51	<LOD	11.77	40.52	2.85	<LOD	119.31	<LOD	4.49	<LOD	115.31	76.38	3.64	1691.23	304.31	259.35	6.04
108	233	35	<LOD	10	37	2	<LOD	105	<LOD	4	<LOD	96	71	3	1457	335	195	4
108	365.29	49.01	-6.58	3.47	27.19	2.44	30.5	37.82	-0.86	2.07	43.88	34.3	111.9	4.13	841.46	305.08	136.75	4.43
109	287.44	44.61	<LOD	11.75	50.92	3.04	<LOD	118.33	<LOD	4.71	<LOD	114.7	93.18	3.87	1305	306.5	315.66	6.54
109	265	35	<LOD	9	40	2	<LOD	97	<LOD	4	<LOD	90	74	3	1861	343	182	4
109	198.09	41.1	-0.09	3.44	31.74	2.49	33.61	35.89	-0.67	1.97	43.93	32.47	105.55	3.93	1049.06	293.07	131.69	4.26
110	222.85	44.8	<LOD	11.88	42.35	2.96	<LOD	121.02	<LOD	5.98	<LOD	115.19	95.55	4.03	<LOD	821.83	201.25	5.42
110	340	42	14	3	53	3	<LOD	113	<LOD	4	<LOD	103	107	4	3772	461	308	6
110	288.84	56.38	-2.05	4.04	34.23	3.03	7.64	42.82	-2.38	2.43	61.23	38.53	171.32	5.75	1691.98	396.61	133.79	5.09
111	334.84	51.82	<LOD	12.2	57.67	3.36	<LOD	125.43	<LOD	5.91	<LOD	119.78	108.81	4.33	1490.85	339.44	276.47	6.39
111	500	46	<LOD	10	40	2	<LOD	104	<LOD	5	<LOD	96	83	3	2888	414	248	5
111	281.87	45.65	-0.66	3.4	39.86	2.68	18.45	35.09	-2	2.11	53.56	32.38	179.56	4.94	1445.08	321.5	163.93	4.6
112	385.86	50.96	<LOD	11.58	46.47	3.01	<LOD	119.16	<LOD	5.01	<LOD	116.42	104.28	4.14	1258.61	307.81	205.69	5.42
112	324	35	<LOD	9	37	2	<LOD	95	<LOD	4	<LOD	87	75	3	2437	329	193	4
112	332.34	44.44	-0.08	3.55	46.34	2.76	5.64	36.78	-3.43	1.55	74.13	33.42	86.08	3.54	1502.59	319.87	283.61	5.82
113	358.37	48.16	<LOD	11.61	46.6	2.98	<LOD	118.53	<LOD	4.55	<LOD	114.33	97.71	3.99	1071.63	287.83	207.06	5.39
113	240	32	<LOD	9	33	2	<LOD	94	<LOD	3	<LOD	87	63	3	1719	319	184	4
113	232.8	39.71	1.59	3.49	36.36	2.53	-30.34	35.48	-0.95	1.63	5.17	31.97	76.27	3.37	1875.35	317.72	198.91	4.92
114	517.44	55.77	<LOD	11.88	43.16	3	<LOD	122.53	<LOD	5.38	<LOD	118.1	95.32	4.08	<LOD	874.31	204.41	5.53
114	345	41	<LOD	10	46	3	<LOD	108	<LOD	4	<LOD	100	105	4	3995	458	351	6
114	106.23	30.42	9.05	3.4	23.56	2.11	-4.42	33.28	-1.76	1.35	23.69	30.31	57.18	2.91	455.27	239.67	142.88	4.16
115	432.58	54.65	<LOD	12.06	47.79	3.19	<LOD	122.76	<LOD	6.01	<LOD	119.93	115.74	4.54	2194.64	337.76	214.13	5.8
115	216	32	<LOD	10	30	2	<LOD	99	<LOD	4	<LOD	92	54	3	949	295	151	4
115	163.41	32.9	2.74	3.23	34.93	2.29	-10.45	32.96	-0.88	1.34	-13.73	29.95	63.05	2.89	737.29	261.46	196.1	4.52
116	514.88	63.19	<LOD	13.67	40.68	3.36	<LOD	138.11	<LOD	5.84	<LOD	132.52	98.75	4.71	<LOD	1030.59	206.09	6.32
116	243	34	<LOD	9	36	2	<LOD	99	<LOD	4	<LOD	91	68	3	2062	345	203	4
116	181.61	28.85	-3.7	2.82	18.89	1.71	66.07	27.66	0.41	1.16	-41.64	24.98	54.14	2.5	348.19	190.68	95.76	3.18
117	391.37	49.52	<LOD	11.45	40.75	2.85	<LOD	116.49	<LOD	4.89	<LOD	112.06	97.04	3.98	1862.34	295.07	203.2	5.34
117	261	39	<LOD	10	46	3	<LOD	110	<LOD	4	<LOD	102	81	3	2240	401	254	5
117	189.62	26.86	9.49	2.73	11.53	1.42	10.67	25.06	0.85	1.11	-10.65	22.84	48.68	2.26	312.07	166.07	52.13	2.55
118	543.19	54.09	<LOD	11.42	55.01	3.11	<LOD	115.6	<LOD	5.55	<LOD	110.13	127.05	4.36	2050.48	314.06	262.02	5.86
118	361	40	<LOD	10	44	2	<LOD	106	<LOD	4	<LOD	98	82	3	2968	394	299	5
118	39.96	17.14	7.72	2.62	4.7	1.17	32.09	24.15	-2.28	0.76	-57.52	22.07	42.62	2.1	-256.57	128.71	22.38	2.15
119	431.14	49.42	<LOD	11.28	38.03	2.75	<LOD	113.39	<LOD	4.61	<LOD	109.71	91.22	3.84	914.46	278.73	203.81	5.3
119	321	39	<LOD	10	42	2	<LOD	104	<LOD	4	<LOD	96	86	3	1908	382	297	5
119	200.75	26.83	4.11	2.69	7.93	1.33	-5.41	24.8	-1.63	0.88	-81.8	22.47	52.48	2.36	-161.77	148.92	18.08	2.21
120	347.85	50.59	<LOD	12.29	37.69	2.98	<LOD	125.79	<LOD	5.88	<LOD	120.47	85.24	4.06	898.09	290.87	158.84	5.19
120	442	42	<LOD	10	37	2	<LOD	103	<LOD	4	<LOD	96	67	3	1909	369	254	5
120	41.38	17.83	9.89	2.72	6.64	1.27	-29.29	24.7	-0.72	0.89	-49.28	22.76	42.23	2.16	-336.91	128.89	20.17	2.2
121	508.8	58.83	<LOD	12.45	53.29	3.41	<LOD	122.58	<LOD	5.83	<LOD	117.79	90.43	4.18	1395.28	328.99	191.15	5.62
121	307	35	<LOD	9	40	2	<LOD	103	<LOD	4	<LOD	93	80	3	2264	352	263	5
121	158.5	27.37	8.34	2.95	10.85	1.52	24.63	27.16	-1.01	1.06	-77.19	24.7	61.99	2.68	453.84	183.94	59.28	2.86
122	272.12	43.59	<LOD	11.79	46.52	2.97	<LOD	113.05	<LOD	4.75	<LOD	108.25	65.17	3.39	<LOD	765.71	186.75	5.13
122	187	30	<LOD	9	26	2	<LOD	91	<LOD	4	<LOD	84	62	3	1335	289	162	4
122	174.35	36.72	0.86	3.49	35.99	2.51	-22.84	36.16	-2.04	1.37	3.93	33.26	82.37	3.48	953.39	268.28	195.69	4.91
123																		
123	163	28	10	3	29	2	<LOD	87	<LOD	4	<LOD	80	57	2	1516	292	153	3
123	182.75	39.18	-4.4	3.67	47.74	2.92	-47.06	39.14	-1.31	1.46	23.25	34.96	89.11	3.79	3102.09	383.39	237.13	5.64
124																		
124	131	26	<LOD	9	25	2	<LOD	90	<LOD	4	<LOD	83	53	2	2342	299	149	4
124	211.39	42.89	-0.14	3.47	24.29	2.31	-5.79	35.68	1.42	1.93	-10.75	32.71	220.73	5.65	1204.43	306.45	123.96	4.35
125	596.14	73.3	<LOD	12.34	50.15	3.3	<LOD	130.13	<LOD	6.06	<LOD	124.84	80.25	3.94	4768.68	476.5	242.98	6.16
125	638	60	<LOD	11	100	4	<LOD	126	<LOD	8	<LOD	116	243	6	3465	537	243	6
125	187.71	36.48	4.29	3.39	34.23	2.4	10.63	35.13	-1.13	1.46	62.27	31.71	214.05	5.25	597.26	265.82	207.98	4.98
126																		
126	607	70	12	4	48	3	<LOD	127	<LOD	6	<LOD	120	74	4	6844	706	237	6
126																		
127	9785.95	251	19.3	4.72	137.22	6.05	<LOD	148.32	<LOD	15.73	<LOD	143.18	353.89	9.17	2026.89	473.86	120.38	5.73
127	713	73	<LOD	12	46	3	<LOD	129	<LOD	7	<LOD	119	86	4	6590	706	239	6
127	724.21	77.08	-0.11	4.11	50.6	3.3	-16.6	44.17	1.63	2.12	141.83	40.25	72.59	3.82	5902.9	568.61	258.57	6.38
128	471.55	60.54	<LOD	12.59	107.27	4.61	<LOD	134.54	<LOD	9.34	<LOD	127.19	252.79	6.77	1831.61	369.41	256.29	6.53
128	462	41	9	3	8	2	<LOD	110	<LOD	5	<LOD	101	278	6	<LOD	799	56	3
128	695.1	76.29	-3.21	4.07	50.94	3.31	19	43.64	3.16	2.23	43.77	39.86	70.43	3.78	5171.08	563.99	256.15	6.34
129	549.47	48.82	<LOD	10.43	11.04	1.94	<LOD	121.7	<LOD	4.82	<LOD	114.63	292.02	6.59	<LOD	617.27	41.26	3.53
129	432	41	<LOD	9	13	2	<LOD	113	<LOD	5	<LOD	103	255	6	<LOD	801	68	3
129	299.48	101.05	0.06	8.04	46.93	6.42	74.29	81.08	-7.21	2.95	-17	75.48	128.07	9.72	1965.08	736.81	216.43	11.87
130	<LOD	143.52	11.7	3.9	25.43	2.51	<LOD	133.38	7.61	2.16	<LOD	127.16	119.87	4.53	1010.44	278.73	68.36	3.88
130	535	44	<LOD	9	10	2	<LOD	112	<LOD	5	<LOD	103	269	6	<LOD	799	60	3
130																		
131	606.15	76.57	<LOD	13.09	51.7	3.44	<LOD	133.16	<LOD	6.43	<LOD	129.01	81.56	4.08	3932.54	473.9	261.12	6.55
131	10062	245	24	4	129	5	<LOD	144	<LOD	16	<LOD	132	348	9	2557	674	109	5
131	419.46	51.42	0.32	3.86	52.71	3.08	86.06	39.96	-1.07	1.73	81.03	35.9	126.3	4.45	2542.42	374.97	346.47	6.9
132	<LOD	38.92	<LOD	8.91	<LOD	3.74	<LOD	99.4	<LOD	3.66	<LOD	95.56	<LOD	4.35	<LOD	371.89	<LOD	6.33
132	<LOD	124	<LOD	10	27	2	<LOD	126	<LOD	6	<LOD	117	122	4	<LOD	1138	57	3
132	387.52	50.01	0.7	3.7	50.64	3.01	48.01	38.04	-2.64	1.87	78.35	34.68	167.91	5	3007.81	383.54	269.59	5.98
133	<LOD	53	<LOD	8	<LOD	3	<LOD	99	<LOD	4	<LOD	91	<LOD	4	<LOD	594	<LOD	6
133	315.93	45.35	3.68	3.65	46.91	2.85	-10.5	37.04	-0.86	1.71	21.59	33.85	150.97	4.66	1439.55	335.29	260.63	5.77
134	239.39	43.39	5.86	3.93	52.87	3.07	-24.05	39.91	-1.67	1.65	107.56	36	125.71	4.43	2263.41	366.76	379.47	7.23
135	168.05	35.47	1.35	3.52	41	2.6	32.35	35.47	-0.24	1.44	26.48	32.22	72.83	3.28	2026.34	300.76	247.95	5.42
136	280.95	41.49	4.44	3.64	49.38	2.83	-21.35	38.03	-1.26	1.41	57.27	34.24	81.63	3.49	1457.83	308.01	288.14	5.92
137	247.71	43.17	2.4	3.62	33.91	2.6	8.58	36.53	-1.93	1.68	10.66	33.26	105.41	4.06	656.18	275.28	150.04	4.63
138	221.69	48.19	3.25	4	31.57	2.8	37.59	39.41	-2.94	1.74	6.78	35.98	119.78	4.73	675.06	347.12	131.71	4.89
139	225.7	40.37	3.75	3.46	31.68	2.46	-36.95	35.27	0.7	1.89	15.59	31.85	151.05	4.6	625.69	290.58	134.53	4.32
140	151.51	33.84	12.3	3.36	20.41	2.03	48.26	31.5	0.44	1.61	11.87	28.35	80.97	3.33	-129.51	214.27	87.16	3.54
141	318.05	46.53	3.33	3.71	56.95	3.12	-4.19	38.74	0.95	1.67	123.18	35.36	86.44	3.72	1711.02	338.94	228.69	5.51
142	180.87	35.37	-6.99	3.36	42.53	2.62	48.93	35.28	-2.41	1.22	85.56	32.33	64.66	3.11	571.63	251.43	195.67	4.83
143	163.99	40.94	2.34	3.92	38.84	2.87	6.45	39.42	-2.3	1.43	28.02	35.05	71.01	3.66	1021.92	311.75	183.15	5.33

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

In-Situ XRF Data

Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment		Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
10-Apr-12	144	20.73	wilder 5444	143	NA	1	1	2			271.7	11.53	2.85	7.06	35.04	23.49	274.83	13.85	-67.11	45.26	ND		1.46	11.21	-7.18	4.24	11415.33	197.46	44.01	9.38	-130.65	17.83	-5.86	55.37	ND		221.44	40.23	1.83	3.6	38.47	2.66	-37.36	37.28	-1.37	1.5	79.16	34.27	78.1	3.52	643.18	293.56	178.02	4.87
10-Apr-12	145	20.44	wilder 5444	143	NA	3	3	30			390.77	13.75	-2.37	8.25	7.8	23.53	303.43	14.47	122.07	52.94	ND		23.42	11.79	5.33	5.32	8485.92	162.8	25.27	8.52	-106.97	17.85	-5.89	47.98	ND		121.82	35	-0.45	3.55	33.59	2.54	-10.32	37.83	1.09	1.76	108.88	34.75	87.59	3.68	902.9	275.75	167.36	4.74
10-Apr-12	146	19.37	wilder 5444	143	NA	3	3	30			218.07	9.82	14.66	6.25	46.9	22.55	269.8	12.99	3.15	45.29	ND		31.15	12	-0.58	4.53	9448.57	165.44	16.35	7.69	-134.7	16.81	19.8	48.49	ND		184.98	36.05	0	3.46	40.52	2.56	-20.5	35.89	-2.58	1.31	127.78	33.09	80.65	3.38	1860.35	311.71	253.44	5.41
10-Apr-12	147	19.3	wilder 5444	143	NA	3	3	30			238.83	10.49	4.61	6.47	19.63	23.19	255.79	12.98	116.59	56.61	ND		83.79	15.4	-5.34	4.28	14190.59	220.56	42.84	9.36	-41.12	17.68	15.73	59.83	ND		437.69	48.61	-5.92	3.47	42.45	2.67	4.45	37.73	-1.76	1.43	45.75	34.19	95.24	3.7	1247.85	321.19	245.22	5.45
10-Apr-12	148	20.04	wilder 5444	143	NA	3	3	2			196.28	9.63	-0.7	5.88	17.16	22.94	208.88	11.86	65.62	50.21	ND		20.5	11.54	0.09	4.6	10684.78	184.28	34.2	8.7	-145.11	17.26	-60.96	51.42	ND		274.13	41.23	-5.47	3.47	41.79	2.66	-38.25	36.85	-2.17	1.34	11.12	33.42	87.69	3.6	1444.71	298.55	217.73	5.19
10-Apr-12	149	20.6	wilder 5444	143	NA	3	3	2			143.24	8.57	5.84	5.37	22.45	23.53	218.29	12.38	58.76	51.43	ND		26.03	12.62	9.27	5.38	11096.45	193.09	22.41	8.41	-102.72	17.88	13.65	54.81	ND		235.03	40.87	-9.24	3.54	42.22	2.73	-55.82	38.05	-1.94	1.35	39.18	34.5	92.54	3.77	1704.92	317.59	239.05	5.55
10-Apr-12	150	19.66	wilder 5444	143	NA	3	3	2			164.24	8.41	6.79	5.27	50.2	21.61	170.16	10.2	2.92	41.18	ND		19.1	10.11	-5.06	3.88	6430.36	127.52	16.72	7.27	-161.34	16.21	-17.06	38.85	ND		122.28	30.66	8.19	3.36	38.56	2.44	-49.36	34.41	-1.01	1.3	60.49	31.19	69.21	3.08	259.99	230.11	173.23	4.43
10-Apr-12	151	20.98	wilder 5444	154	NA	3	1	30			334.94	12.59	17.01	7.87	-17.2	22.78	368.6	15.74	32.72	46.8	ND		17.49	10.95	0.26	4.86	7912.74	154.46	23.68	8.26	-193.95	17.22	-37.98	45.33	ND		153.43	35.2	-3.48	3.46	32.37	2.46	-71.48	36.14	0.07	1.62	43.09	32.45	59.06	3.11	777.96	269.46	154.31	4.51
10-Apr-12	152	23.49	wilder 5444	154	NA	3	1	30			224.24	12.02	8.39	7.5	-1.77	25.82	295.36	16.35	41.13	52.59	ND		-6.82	10.38	-2.48	5.2	5477.83	144.1	22.23	9.44	-220.79	19.94	-12.3	44.73	ND		175.36	40.32	0.2	4.1	25.16	2.63	-17.51	40.66	-1.22	1.64	-33.75	36.65	55.81	3.54	588.5	293.16	148.28	5.17
10-Apr-12	153	20.67	wilder 5444	154	NA	3	1	30			321.38	12.28	6.58	7.54	55.38	23.25	277.82	13.65	-79.95	39.9	ND		5.34	10.26	-3.88	4.47	7426.01	147.96	26.62	8.3	-123.1	17.5	-1.15	44.46	ND		228.62	37.65	0.73	3.45	34.57	2.51	-20.55	36.47	0.29	1.61	72.2	33.42	76.54	3.42	658.2	274.28	122.43	4.14
10-Apr-12	154	22.44	wilder 5444	154	NA	3	2	30			173.31	10.29	15.84	6.62	61.5	25.59	448.6	19.32	14.39	53.62	ND		-0.44	11.48	-11.44	4.27	9789.74	196.86	10.9	8.55	-156.16	19.53	-49.99	55.66	ND		253.38	45.03	-4.63	3.88	31.55	2.71	37.85	41.07	0.65	1.71	19.14	37	55.04	3.38	1127.14	336.78	154.73	5.04
10-Apr-12	155	19.99	wilder 5444	154	NA	3	2	30			172.47	8.96	13.84	5.74	70.38	22.85	267.42	13.12	2.89	46.25	ND		8.97	10.96	-7.17	4.01	8956.17	162.52	16.38	7.7	-121.7	17.15	37.29	48.3	ND		172.56	35.91	-1.99	3.47	42.77	2.64	-5.98	36.63	-1.9	1.33	61.76	33.12	63.4	3.11	871.94	289.53	226.92	5.2
10-Apr-12	156	21.02	wilder 5444	154	NA	3	2	30			189.93	9.95	1.21	6.1	33.36	23.68	282.79	14.3	78	55.76	ND		10.64	12.22	-6.6	4.3	13089.72	220.4	18.63	8.37	-184.59	17.92	-30.7	59.89	ND		214.83	42.16	1.54	3.71	50.78	3.01	-42.03	38.4	-0.44	1.53	34.79	34.62	74.69	3.53	1108.74	319.5	212.59	5.37
10-Apr-12	157	21.67	wilder 5444	154	NA	3	3	30			195.64	10.33	0.27	6.33	9.48	24.55	334.25	15.94	5.2	47.16	ND		20.62	11.65	-4.25	4.65	7256.56	155.95	14.22	8.3	-139.62	18.66	-43.88	46.11	ND		98.15	34.06	2.16	3.75	22.57	2.33	-80.9	39.57	-4.18	1.21	51.6	36.01	72.42	3.58	1015.04	291.84	140.42	4.65
10-Apr-12	158	20.77	wilder 5444	154	NA	3	3	30			242.05	10.54	9.42	6.58	35.76	22.15	359.73	15.23	-67.26	39.21	ND		7.94	10.38	-7.91	4.01	8072.43	153.23	21.53	7.93	-188.04	16.88	-7.49	45.42	ND		123.27	32.63	0.31	3.44	31.49	2.38	-2.18	35.02	0.56	1.54	29.2	31.7	65.82	3.17	1204.72	278.31	158.35	4.47
10-Apr-12	159	20.99	wilder 5444	154	NA	3	3	30			278.32	11.7	8.76	7.26	17.84	23.35	377.22	16.23	68.58	49.81	ND		3.87	10.8	2.84	5.14	8519.29	164.73	34.33	8.99	-145.61	17.81	-2.78	48.58	ND		131.36	35.35	5.13	3.67	38.78	2.68	-76.83	37.36	-2.94	1.39	43.92	34.06	75.79	3.5	1215.88	284.2	189.15	5.02
10-Apr-12	160	19.17	wilder 5444	134	NA	3	1	30			195.41	9.03	1.98	5.55	21.06	21.58	142.62	9.37	17.04	41.58	ND		-6.62	9.27	-2.65	4.07	7734.83	141.43	23.85	7.53	-115.02	16.28	38.99	43.08	ND		299.8	38.04	-1.82	3.3	32.68	2.28	-11.14	34.09	-0.65	1.36	85.88	31.36	67.28	3.03	1673.31	268.72	231.93	5
10-Apr-12	161	21.34	wilder 5444	134	NA	3	1	30			112.56	7.94	4.82	4.97	-23.76	23.87	131.97	10.08	32.71	49.5	ND		-1.86	10.89	6.72	5.22	8762.33	170.49	-1.69	7.05	-139.99	18.14	33.2	50.67	ND		280.76	42.41	-2.62	3.71	37.22	2.66	-2.92	38.06	0.52	1.54	39.4	34.13	65.52	3.35	1485.13	313.8	244.71	5.73
10-Apr-12	162	19.53	wilder 5444	134	NA	3	1	30			126.22	7.76	0.73	4.77	17.82	22.82	142.38	9.74	23.97	46.26	ND		13.02	11.09	-1.54	4.31	8961.54	161.17	10.88	7.36	-80.74	17.16	24.61	47.71	ND		323.73	41.37	-1.63	3.5	42.25	2.61	-84.03	36.95	-0.94	1.36	28.38	33.36	78.1	3.35	1443.99	293.9	287.96	5.8
10-Apr-12	163	20.15	wilder 5444	134	NA	3	2	30			188.96	9.55	4.48	5.93	8.09	23.41	169.49	10.86	0.36	46	ND		9.47	10.61	-3.14	4.39	7473.05	148.84	8.25	7.42	-101.08	17.65	-21.66	44.43	ND		216.39	37.8	-4.92	3.55	38.56	2.61	15.85	37.77	-2.32	1.34	58.34	34.49	65.91	3.24	1187.61	303.08	249.92	5.58
10-Apr-12	164	18.91	wilder 5444	134	NA	3	2	30			276.27	10.73	-0.9	6.52	7.09	21.62	202.6	11.08	-10.5	43.73	ND		8.63	10.78	-2.16	4.27	9516.85	162.22	20.95	7.63	-95.28	16.56	53.97	48.03	ND		385.43	42.38	0.76	3.4	41.58	2.52	-16.53	34.81	-0.33	1.48	49.07	31.36	74.92	3.2	1823.47	304.97	279.7	5.54
10-Apr-12	165	19.81	wilder 5444	134	NA	3	2	30			277.21	10.75	-1.8	6.51	43.16	21.53	212.57	11.34	-32.69	39.45	ND		8.59	10.45	1.27	4.49	7795.65	143.43	29.74	7.96	-145.71	16.32	82.39	44.4	ND		189.2	34.06	-1.61	3.31	41.15	2.51	-12.76	33.88	-2.09	1.33	4.82	30.85	65.26	3.03	1236.25	262.08	209.56	4.82
10-Apr-12	166	20.28	wilder 5444	134	NA	3	3	30			71.67	6.58	7.47	4.22	36.97	24.34	135.84	10.15	103.1	55.77	ND		5.75	12.38	4.57	5.05	11815.58	203.96	19.73	8.37	-41.61	18.45	92.9	58.52	ND		407.73	48.49	-7.9	3.68	49.97	2.95	12.65	39.74	-2.98	1.24	55.66	35.43	75.77	3.52	1742.69	330.91	304.77	6.33
10-Apr-12	167	21.26	wilder 5444	134	NA	3	3	30			86.68	7.15	-2.45	4.29	0.04	23.75	111.64	9.36	-76.73	45.12	ND		2.9	11.56	-0.87	4.57	10778.94	193.92	6.29	7.53	-116.16	18.23	33.06	55.51	ND		377.16	46.58	2.34	3.71	50.17	2.98	-26.97	37.9	0.93	1.53	75.38	34.41	74.95	3.52	1578.87	337	206.74	5.29
10-Apr-12	168	19.92	wilder 5444	134	NA	3	3	30			92.39	6.77	2.32	4.19	17.52	21.97	154.9	10	1.32	43.88	ND		-1.74	10.31	-2.76	4.1	8623.16	156.2	9.66	7.07	-124.49	16.79	92.13	47.57	ND		370.88	42.29	-0.32	3.4	37.7	2.47	-62.15	35.59	0.33	1.38	13.28	31.75	67.47	3.13	1251.54	281.96	212.05	4.95
10-Apr-12	169	20.64	wilder 5444	148	NA	3	1	30			172.69	8.93	5.03	5.56	30.78	22.07	222.43	11.98	15.54	44.7	ND		12.89	10.34	-10.19	3.59	8432.52	156.27	21.82	7.85	-185.48	16.75	-65.78	44.94	ND		276.73	39.33	-4.82	3.4	38.51	2.53	-49.75	34.56	-2.53	1.23	36.91	31.51	68.47	3.19	1171.76	277.08	196.33	4.86
10-Apr-12	170	19.8	wilder 5444	148	NA	3	1	30			221.02	9.8	16.57	6.25	-11.46	21.72	250.75	12.41	-5.51	45.33	ND		21.84	11.59	1.5	4.58	10931.92	179.92	15.53	7.48	-165.56	16.49	18.5	51.27	ND		371.67	43.02	-3.83	3.34	44.03	2.61	34.6	35.17	-0.91	1.41	-15.23	31.57	78.21	3.3	1428.44	298.07	209.1	4.89
10-Apr-12	171	21.56	wilder 5444	148	NA	3	1	30			247.3	11.39	3.86	7.01	-1.56	23.95	211.33	12.63	43.31	51.91	ND		5.92	11.41	-10.64	3.97	8587.06	170.89	10.27	7.93	-159.45	18.32	28.73	50.79	ND		401.77	47.86	-2.53	3.7	35.26	2.66	30.42	38.25	-2.65	1.41	116.83	34.97	71.76	3.52	696.38	301.12	185.51	5.13
10-Apr-12	172	19.18	wilder 5444	148	NA	3	2	30			654.19	17.16	13.3	10.24	8.69	22.57	384.84	15.52	109.58	49.89	ND		12.65	11.05	-0.9	4.93	9848.33	170.47	25.34	8.2	-123.03	16.93	-18.16	49.01	ND		338.59	42.37	-2.52	3.43	37.92	2.54	19.07	36.48	-1.55	1.74	129.69	33.12	75.03	3.3	1787.9	280.69	239.91	5.28
10-Apr-12	173	19.59	wilder 5444	148	NA	3	2	30			389.94	12.75	3.04	7.72	19.29	21.48	281.21	12.93	-5.17	39.02	ND		1.3	9.69	-2.05	4.38	6476.74	128.48	14.83	7.22	-150.96	16.28	69.19	40.81	ND		277.68	36.9	-3.08	3.28	27.49	2.19	-0.8	34.03	1.04	1.62	80.88	30.83	60.67	2.95	1261.05	242.01	191.82	4.63
10-Apr-12	174	20.12	wilder 5444	148	NA	3	2	30			367.15	13.25	19.65	8.28	4.85	23.64	277.2	13.81	87.89	56.16	ND		12.95	12.78	3.24	5.17	14286.89	227.31	26.33	8.63	-109.68	17.81	58.11	62.12	ND		387.35	48.02	-2.23	3.59	44.42	2.79	-23.79	37.67	-3.01	1.49	32.23	34.3	78.26	3.51	1161.39	319.44	232.31	5.44
10-Apr-12	175	18.32	wilder 5444	148	NA	3	2	30			776.54	18.04	-4.02	10.48	32.05	21.52	418.12	15.48	-37.92	40.87	ND		1.9	10.13	-0.9	4.79	8769.15	151.68	29	7.95	-123.65	16.18	51.3	45.57	ND		372.26	40.99	-6.89	3.21	43.08	2.56	-33.37	34.03	-0.74	1.77	104.51	31.16	73.43	3.14	2153.9	304.98	219.38	4.85
10-Apr-12	176	18.74	wilder 5444	148	NA	3	2	30			1060.65	21.86	3.53	12.45	23.43	21.51	490.65	17.04	12.55	44.63	ND		4.96	10.13	-2.15	5.03	8167.3	147.3	18.1	7.64	-179.74	16.19	10.1	44.13	ND		299.1	39.21	6.61	3.37	37.15	2.49	7.91	33.84	-1.87	1.92	83.36	31.05	103.55	3.69	526.99	255.89	195.31	4.7
10-Apr-12	177	19.88	wilder 5444		PES 5861						56.95	6.46	32.15	4.82	79.28	26.74	109.05	13.36	961.46	97.23	ND		1048.38	42.37	10.47	5.89	15025.63	249.84	2832.93	60.33	95.73	20.03	-52.59	66.04	ND		223.51	49.42	2.1	3.69	22.3	2.33	75.2	43.63	5.94	1.97	192.78	39.58	115.23	4.38	537.08	311.61	87.41	4.03
10-Apr-12	178	18.99	wilder 5444		nist2710						5292.55	83.05	639.11	38.9	81.79	29.22	7106.16	114.23	88.66	96.39	ND		21.77	21.67	66.49	15.59	36966.67	555.06	2917.79	69.52	-112.18	22.48	-356.08	114.57	ND		9111.56	236.56	12.96	4.48	146.33	6.03	46.03	46.51	-6.25	4.92	74.67	41.9	300.84	8.24	2483.21	519.29	111.95	5.32
10-Apr-12	179	20.24	wilder 5444		NIST 2586						412.85	16.22	20.56	10.05	25.59	28.27	349.93	17.88	382.87	98.64	ND		111.17	24.81	7.22	6.53	50175.52	675.98	57.83	12.55	85.21	21.92	39.92	129.62	ND		680.69	79.07	4.58	4.28	49.74	3.38	51.75	46.4	-0.07	2.09	166.68	42.28	85.61	4.21	5710.75	587.92	255.48	6.54
10-Apr-12	180	20.28	wilder 5444		nist 2711						1219.76	27.92	105.49	16.52	80.31	26.68	321.23	16.4	52.66	68.05	ND		18.86	17.05	8.1	6.95	25465.81	375.41	108.63	13.61	-13.64	20.22	115.81	89.92	ND		466.76	60.19	-7.22	3.92	125.18	4.86	21.16	41.5	-2.74	2.44	146.83	38.16	261.11	6.83	2522.59	421.19	248.81	6.34
10-Apr-12	181	20.4	wilder 5444		PES4315						281.5	11.58	26.74	7.46	23.26	23.78	951.47	25.9	27.34	45.42	ND		17.09	10.03	-3.2	5.06	3075.85	91.15	127.38	12.68	2.8	18.24	-53.21	29.21	ND		650.23	52.07	9.07	3.48	12.39	1.94	-8.64	37.83	-1.05	1.52	71.85	34.14	307.46	6.78	-380.8	219.46	48.93	3.61
10-Apr-12	182	19.81	wilder 5444		BLANK						-0.62	2.92	-0.1	1.63	14.7	22.13	6.34	3.73	42.02	37.35	ND		-8.58	5.97	1.77	4.11	31.72	16.13	-1.06	5.75	11.09	16.83	-21.14	8.76	ND		7.24	19.53	4.55	3.11	0.76	1.25	-2.04	36.01	-0.2	1.13	91.95	32.65	1.31	1.5	-71.49	188.88	2.97	2.24
11-Apr-12	1	55.01																																																					
11-Apr-12	1	43.94																																																						
11-Apr-12	1	1.06																																																						
11-Apr-12	2	20.41	stroh_5420		Blank						<LOD	8.72	<LOD	5.76	<LOD	65.44	<LOD	10.47	<LOD	96.18	<LOD	489.54	<LOD	20.07	<LOD	11.75	<LOD	48.04	<LOD	19.26	<LOD	45.13	<LOD	24.55	<LOD	0	<LOD	52.74	<LOD	9.15	<LOD	3.54	<LOD	104.17	<LOD	3.71	<LOD	101.48	<LOD	4.44	<LOD	432.7	<LOD	6.39
11-Apr-12	2	23.09	wilder 5434		2711						1265	27	71	18	<LOD	78	333	16	<LOD	169	606	173	<LOD	49	29	8	25878	361	64	12	<LOD	61	438	92	<LOD	0	413	54	<LOD	11	109	4	<LOD	123	<LOD	8	<LOD	114	241	6	2392	524	231	6
11-Apr-12	2	53.99																																																					
11-Apr-12	3	19.77	stroh_5420		4315						274	11.39	29.02	8.95	<LOD	69.85	820.95	23.8	<LOD	147.21	<LOD	655	<LOD	25.88	<LOD	17	2988.65	90.37	110.11	12.02	<LOD	48.47	<LOD	97.32	<LOD	0	639.81	50.69	<LOD	10.31	9.3	1.85	<LOD	109.4	<LOD	4.81	<LOD	106.54	288.5	6.45	<LOD	585.88	40.43	3.47
11-Apr-12	3	22.52	wilder 5434		2710						5570	81	557	42	<LOD	83	6906	104	<LOD	203	<LOD	601	<LOD	64	60	14	36928	518	2702	61	<LOD	66	404	117	<LOD	0	9364	224	23	4	114	5	<LOD	130	<LOD	15	<LOD	120	319	8	3022	625	106	5
11-Apr-12	3	19.92	embree 5444		PES 5861						50.12	6.08	41.08	4.82	92.92	25.7	156.77	14.18	1025.6	96.83	ND		945.91	39.74	14.42	6.03	14487.16	238.41	2774.33	58.24	80.2	19.48	138.71	66.29	ND		217.46	48.05	5.62	3.62	21.09	2.24	18.84	41.94	7.85	2.03	55.52	37.3	116.31	4.3	676.85	304.75	67.69	3.69
11-Apr-12	4	20.96	stroh_5420		5861						64.62	6.71	38.33	6.01	94.27	26.19	87.09	15.56	1088.54	102.07	<LOD	835.62	838.44	39.09	<LOD	14.48	13903.17	237.38	3901.52	72.92	66.99	18.03	<LOD	206.43	<LOD	0	186.45	47.38	<LOD	11.11	17.69	2.22	<LOD	130.42	<LOD	4.45	<LOD	122.64	114.26	4.34	<LOD	767.97	64.06	3.74
11-Apr-12	4	23.26	wilder 5434		4315						311	12	<LOD	25	<LOD	69	858	23	<LOD	109	<LOD	301	<LOD	27	<LOD	15	2912	84	99	11	<LOD	54	<LOD	88	<LOD	0	442	42	<LOD	9	12	2	<LOD	108	<LOD	5	<LOD	100	297	6	<LOD	796	42	3
11-Apr-12	4	18.89	embree 5444		nist2710						5039.36	77.57	628.44	36.95	25.22	27.42	6541.73	104.14	-4.19	87.72	ND		35.12	21.48	80.99	15.34	34677.76	511.77	2848.98	66.45	-152.87	21.48	-235.16	108.86	ND		8639.04	222.32	0.24	4.16	120.71	5.37	107.7	43.69	-5.56	4.68	62.94	39.46	307.73	8.08	2085.37	487.07	96.44	4.96
11-Apr-12	5	20.88	stroh_5420		2711						1095.65	25.25	94.53	18.39	<LOD	75.24	305.47	15.47	<LOD	191.82	<LOD	981.37	<LOD	48.52	<LOD	21.99	23718.58	342.81	100.61	12.62	<LOD	52.71	<LOD	259.14	<LOD	0	358.81	53.07	<LOD	11.62	105.47	4.34	<LOD	120.06	<LOD	7.3	<LOD	114.96	229.48	6.12	1288.06	314.72	241.5	6.02
11-Apr-12	5	23.08	wilder 5434		5861						55	6	38	5	98	25	114	13	921	81	<LOD	382	976	40	<LOD	16	14548	230	2516	52	<LOD	59	198	66	<LOD	0	197	45	<LOD	10	19	2	<LOD	123	<LOD	5	<LOD	112	122	4	<LOD	1076	84	4
11-Apr-12	5	20.23	embree 5444		NIST 2586						418.49	15.89	16.54	9.78	17.59	26.99	334.04	17.02	332.2	93.81	ND		32.36	22.04	11.24	6.59	48903.14	643.36	77.92	12.8	37.34	21.03	281.14	126.72	ND		876.89	81.52	1.21	4.12	45.57	3.18	20.17	44.57	1.24	2.11	102.58	40.06	74.85	3.88	6542.85	595.92	255.46	6.35
11-Apr-12	6	20.7	stroh_5420		2586						426.65	16.08	<LOD	35.82	<LOD	81.24	317.42	16.61	313.58	92.47	<LOD	1405.18	130	25.03	<LOD	19.69	50789.12	659.29	60.09	12.17	<LOD	57.17	<LOD	399.99	<LOD	0	716.05	77.44	<LOD	12.68	42.97	3.15	<LOD	133.42	<LOD	6.42	<LOD	128.38	79.44	3.96	4232.61	480.83	254.97	6.36
11-Apr-12	6	23.23	wilder 5434		2586						436	16	<LOD	34	<LOD	83	308	16	280	77	<LOD	645	<LOD	66	<LOD	19	51353	649	40	11	71	22	695	132	<LOD	0	852	77	<LOD	12	48	3	<LOD	132	<LOD	6	<LOD	123	86	4	7593	741	251	6
11-Apr-12	6	20.1	embree 5444		nist 2711						1230.08	27.85	86.54	16.3	82.95	26.14	356.49	17.12	36.41	66.87	ND		-0.32	16.31	14	7.26	25329.74	371.02	125.08	14.08	23.2	20.25	172.78	89.72	ND		417.41	58.1	5.02	4.03	112.54	4.59	51.21	41.43	-3.35	2.39	60.44	37.64	252.44	6.66	2453.76	419.17	257.18	6.38
11-Apr-12	7	18.55	stroh_5420		2710						5260.92	82	582.72	46.49	<LOD	85.13	6638.89	108.07	<LOD	274.32	<LOD	1275.93	<LOD	62.34	50.14	15.49	35235.24	532.66	2921.45	68.87	<LOD	61.09	<LOD	363.81	<LOD	0	9014.96	233.05	<LOD	13.26	128.07	5.69	<LOD	136.36	<LOD	15.07	<LOD	128.8	296.85	8.11	2485.85	425.44	107.53	5.31
11-Apr-12	7	22.96	wilder 5434		blank						<LOD	9	<LOD	6	<LOD	65	<LOD	10	<LOD	79	<LOD	204	<LOD	20	<LOD	11	<LOD	48	<LOD	18	<LOD	50	<LOD	30	<LOD	0	<LOD	48	<LOD	9	<LOD	3	<LOD	102	<LOD	4	<LOD	94	<LOD	5	<LOD	566	<LOD	6
11-Apr-12	7	19.86	embree 5444		BLANK						5.41	3.2	-3.6	1.64	0.86	21.18	5.11	3.54	-15.87	31.63	ND		4.52	6.94	-3.36	3.58	51.82	16.62	2.43	5.84	-6.88	16.36	-10.74	9.52	ND		-18.65	16.43	-0.19	2.99	0.61	1.21	63.36	33.95	1.04	1.19	89.62	31.06	-0.14	1.41	-50.61	173.13	-1.59	2.12
11-Apr-12	8	22.47	stroh_5420	129	NA	1	1	0			322.07	14.25	<LOD	32.92	<LOD	80.9	449.74	20.06	<LOD	214.82	1182.72	361.85	<LOD	48.22	<LOD	19.31	16241.38	283.97	62.31	12.04	<LOD	57.54	<LOD	236.54	<LOD	0	404.46	56.16	<LOD	12.25	20.62	2.57	<LOD	132.25	<LOD	6.49	<LOD	127.23	276.5	7.28	<LOD	975.95	73.13	4.45
11-Apr-12	8	22.71	wilder 5434	129	NA	3	1	30			85	7	<LOD	14	<LOD	67	108	8	<LOD	118	<LOD	369	<LOD	36	<LOD	11	15446	218	<LOD	22	<LOD	52	407	64	<LOD	0	505	46	<LOD	10	52	3	<LOD	107	<LOD	4	<LOD	98	99	3	2024	389	276	5
11-Apr-12	8	19.88	embree 5444		BLANK						2.07	3.02	-1.22	1.64	6.67	21.38	3.65	3.43	32.45	35.55	ND		1.79	6.74	-1.59	3.73	34.46	15.76	-3.05	5.51	1.57	16.42	-10.92	9.34	ND		-4.81	18.03	1.98	3.01	-1.27	1.13	57.35	34.19	1.02	1.19	62.21	30.89	0.59	1.44	-121.52	177.44	-1.33	2.13
11-Apr-12	9	19.88	stroh_5420	129	NA	1	1	0			235.82	11.25	<LOD	25.81	<LOD	73.5	227.25	13.23	<LOD	172.93	<LOD	987.1	<LOD	41.61	<LOD	14.9	16207.29	259.79	32.86	9.53	<LOD	51.28	<LOD	219.53	<LOD	0	369.71	49.77	<LOD	11.74	39.19	2.83	<LOD	118.33	<LOD	4.81	<LOD	113.49	194.89	5.55	1247.07	311.78	223.88	5.72
11-Apr-12	9	23.45	wilder 5434	129	NA	3	1	30			60	6	<LOD	13	<LOD	72	63	7	<LOD	132	<LOD	392	<LOD	38	<LOD	11	12086	200	<LOD	24	<LOD	56	305	61	<LOD	0	512	49	17	4	45	3	<LOD	116	<LOD	4	<LOD	106	113	4	3395	451	282	6
11-Apr-12	9	20.41	embree 5444		PES4315						290.56	11.6	12.95	7.25	13.68	23.25	898.85	24.73	117.84	48.58	ND		-13.27	7.85	-4.36	4.84	2711.75	83.87	117.37	12.04	-6.07	17.91	-16.1	28.26	ND		501.84	46.49	1.65	3.34	11.72	1.88	57.3	36.81	0.86	1.62	16.8	33.46	290.95	6.48	105.77	220.6	44.13	3.47
11-Apr-12	10	20.91	stroh_5420	129	NA	1	1	0			325.93	12.84	<LOD	28.99	<LOD	72.46	344.59	15.77	<LOD	162.56	<LOD	894.19	<LOD	42.47	<LOD	15.44	16716.45	259.09	56.96	10.43	<LOD	50.64	<LOD	218.48	<LOD	0	340.2	47.52	<LOD	11.31	43.44	2.88	<LOD	115.5	<LOD	5.66	<LOD	110.87	180.52	5.22	1747.43	304.15	239.24	5.74
11-Apr-12	10	22.4	wilder 5434	129	NA	3	1	30			431	13	<LOD	28	<LOD	66	114	8	<LOD	125	<LOD	407	<LOD	34	<LOD	15	14837	210	<LOD	20	<LOD	51	201	60	<LOD	0	586	48	12	3	55	3	<LOD	105	<LOD	5	<LOD	97	80	3	3215	439	290	5
11-Apr-12	10	17.08	stroh 5444	129	NA	3	2	30			906.21	20.98	0.37	12.1	72	23.33	1285.6	30.02	-28.39	51.65	ND		3.45	12.58	13.47	6.57	13822.31	216.88	20.48	8.61	-67.7	17.66	109.03	60.81	ND		419.66	48.3	-3.57	3.51	48.19	2.87	66.67	37.67	-0.05	2.06	103.55	33.95	104.42	3.89	2467.05	383.78	254.62	5.57
11-Apr-12	11	21.25	stroh_5420	129	NA				mid of yard		91.88	7.42	<LOD	16.86	<LOD	73.03	93.02	8.84	<LOD	192.55	1044.95	340.32	<LOD	41.02	<LOD	13.99	16851.9	263.29	<LOD	23.67	<LOD	51.03	<LOD	216.68	<LOD	0	519.88	54.78	<LOD	11.81	58.82	3.23	<LOD	119.14	<LOD	4.06	<LOD	114.78	92.47	3.87	1711.65	329.21	319.58	6.59
11-Apr-12	11	23.48	wilder 5434	129	NA	3	1	30			67	7	<LOD	15	<LOD	74	99	9	<LOD	151	<LOD	424	<LOD	43	<LOD	15	21287	307	<LOD	25	<LOD	59	362	81	<LOD	0	589	56	<LOD	11	60	3	<LOD	120	<LOD	5	<LOD	111	112	4	3590	489	246	6
11-Apr-12	11	18.57	stroh 5444	129	NA	3	2	30			971.4	21.76	-15.65	12.33	55.39	23.3	899.01	24.54	6.37	53.59	ND		21.22	13	8.48	6.13	15278.63	231.43	51.55	9.89	-51.56	17.69	-13.82	61.66	ND		464.1	50	-0.48	3.53	57.97	3.07	-25.62	37.97	0.69	2.12	64.95	34.33	117.8	4.09	2152.68	368.52	249.15	5.51
11-Apr-12	12	20.36	stroh_5420	129	NA	1	1	2	mid of yard		187.39	10.16	<LOD	22.98	<LOD	72.56	202.16	12.55	<LOD	164.2	<LOD	794.86	<LOD	38.11	<LOD	15.58	11387.49	206.32	<LOD	25.76	<LOD	50.54	<LOD	186.34	<LOD	0	505.55	52.38	<LOD	11.79	29.14	2.54	<LOD	116.67	<LOD	5.54	<LOD	111.64	95.68	3.98	940.58	264.11	198.29	5.33
11-Apr-12	12	23.67	wilder 5434	129	NA	3	4	30			403	14	<LOD	29	<LOD	71	407	16	<LOD	111	<LOD	354	<LOD	32	<LOD	16	7579	150	<LOD	25	<LOD	55	<LOD	144	<LOD	0	453	46	11	3	23	2	<LOD	112	<LOD	5	<LOD	104	63	3	1755	379	151	4
11-Apr-12	12	20.16	stroh 5444	129	NA	3	2	2			198.93	9.38	18.82	6.07	-5.03	21.75	281.12	13.23	45.47	47.75	ND		16.25	11.39	-0.42	4.48	10707.82	179.38	17.45	7.62	-133.99	16.8	29.65	51.44	ND		346.81	42.57	0.29	3.38	42.13	2.59	20.07	34.8	-6.03	0.95	7.35	31.72	75.72	3.29	1004.6	275.18	179.84	4.62
11-Apr-12	13	19.2	stroh_5420	129	NA	1	1	2	mid of yard		155.05	8.6	<LOD	19.37	<LOD	67.28	130.95	9.54	<LOD	142.84	<LOD	733.24	<LOD	33.64	<LOD	13.17	9518.26	169.94	<LOD	21.87	<LOD	46.65	<LOD	158.15	<LOD	0	370.64	43.09	<LOD	10.74	37.61	2.55	<LOD	106.88	<LOD	4.27	<LOD	102.72	99.96	3.74	867.6	240.92	217.96	5.13
11-Apr-12	13	24.97	wilder 5434	129	NA	3	4	30			408	13	<LOD	28	<LOD	66	423	16	<LOD	104	<LOD	326	<LOD	31	<LOD	14	7914	145	<LOD	23	<LOD	52	<LOD	136	<LOD	0	435	42	<LOD	10	25	2	<LOD	103	<LOD	5	<LOD	96	65	3	2017	359	152	4
11-Apr-12	13	16.56	stroh 5444	129	NA	3	2	2			179.45	7.52	11.34	4.78	33.73	18.06	305.86	11.57	-39.19	31.99	ND		10.97	8.7	-2.41	3.55	6318.13	108.8	16.6	6.12	-192.98	13.74	93.85	35.05	ND		217.17	29.45	-0.13	2.76	29.64	1.91	23.33	28.12	-2.05	1.04	66.71	25.41	55.71	2.43	517.47	195.03	120.13	3.29
11-Apr-12	14	20.58	stroh_5420	129	NA	1	1	2	mid of yard		214.43	10.04	<LOD	23.38	<LOD	68.36	246.66	12.86	<LOD	149.95	<LOD	789.69	<LOD	34.09	<LOD	14.55	10800.08	185.7	40.91	9.21	<LOD	47.94	<LOD	171.2	<LOD	0	431.29	46.27	<LOD	11.27	43.09	2.71	<LOD	110.16	<LOD	4.21	<LOD	106.24	98.03	3.75	800.17	251.35	257.22	5.6
11-Apr-12	14	25.16	wilder 5434	129	NA	3	4	30			542	16	<LOD	34	<LOD	71	473	18	<LOD	125	<LOD	369	<LOD	35	<LOD	16	8234	158	<LOD	25	<LOD	56	154	50	<LOD	0	513	48	<LOD	10	27	2	<LOD	114	<LOD	6	<LOD	105	78	3	1994	396	158	4
11-Apr-12	14	19.36	stroh 5444	129	NA	3	4	30			187.31	8.98	2.53	5.54	-7.75	21.79	119.99	8.81	43.61	42.74	ND		3.41	9.74	1	4.4	5398.39	115.78	7.02	6.86	-112.79	16.52	61.84	37.9	ND		196.11	33.75	-4.54	3.41	44.97	2.6	22.04	35.28	-0.35	1.41	65.84	31.9	53.99	2.83	1599.53	271.96	317.05	5.92
11-Apr-12	15	19.39	wilder_5420	135	NA	1	1	0			1075.29	26.4	<LOD	55.55	<LOD	80.1	646.58	23.85	<LOD	232.23	1294.92	396.06	68.29	20.51	<LOD	21.02	36418.07	502.3	298.51	19.96	<LOD	56.42	<LOD	335.85	<LOD	0	526.12	66.78	<LOD	12.07	29.74	2.87	<LOD	131.38	<LOD	7.91	<LOD	126.8	209.5	6.16	<LOD	1058.4	181.91	5.62
11-Apr-12	15	23.3	wilder 5434	129	NA	3	4	2			138	8	<LOD	17	<LOD	67	132	9	<LOD	98	<LOD	315	<LOD	27	<LOD	13	7007	135	<LOD	19	<LOD	52	137	44	<LOD	0	491	44	<LOD	10	33	2	<LOD	105	<LOD	4	<LOD	97	61	3	1791	345	197	4
11-Apr-12	15	18.59	stroh 5444	129	NA	3	4	30			407.51	12.94	19.16	8.02	44.03	21.56	375.74	14.8	-6.92	44.46	ND		25.32	11.11	1.8	4.76	9036.59	156.93	21.78	7.73	-87.87	16.49	-21.83	45.47	ND		1455.52	69.48	8.91	3.42	46.65	2.63	-21.16	34.72	2.1	1.72	54.1	31.83	61.74	2.95	1655.56	300.08	240.85	5.1
11-Apr-12	16	22.33	wilder_5420	135	NA	1	1	0			560.36	18.92	61.39	14.54	<LOD	79.3	541.41	22.15	<LOD	228.11	<LOD	1043.04	<LOD	58.13	<LOD	19.13	30765.25	453.65	89.54	13.38	<LOD	56.38	<LOD	322.55	<LOD	0	634.41	69.44	<LOD	12.65	33.53	2.99	<LOD	128.32	<LOD	6.53	<LOD	121.94	175.03	5.77	1341.24	341.3	157.63	5.42
11-Apr-12	16	22.64	wilder 5434	129	NA	3	4	2			157	8	<LOD	17	<LOD	64	123	8	<LOD	102	<LOD	303	<LOD	29	<LOD	12	7313	130	<LOD	21	<LOD	49	163	42	<LOD	0	528	43	<LOD	9	33	2	<LOD	101	<LOD	4	<LOD	93	63	3	2569	351	213	4
11-Apr-12	16	12.15	stroh 5444	129	NA	3	4	30			369.43	16.72	13.5	10.33	-5.12	29.26	180.78	14.21	91.67	65.1	ND		0.39	13.56	-3.3	5.75	9247.94	215.14	22.28	10.32	-136.86	22.11	19.93	63.15	ND		395.17	57.76	-5.07	4.48	32.94	3.14	13.11	47.96	0.68	2.17	23.01	43.5	44.11	3.55	1484.15	380.01	242.62	6.93
11-Apr-12	17	20.37	wilder_5420	135	NA	1	1	0			550.76	17.72	<LOD	39.87	<LOD	75.33	612.48	22.32	<LOD	169.59	<LOD	921.39	<LOD	46.55	<LOD	18.35	21860.72	332.02	84.7	12.35	<LOD	53.06	<LOD	254.27	<LOD	0	607.07	61.16	<LOD	11.78	29.05	2.68	<LOD	122.56	<LOD	5.85	<LOD	116.06	153.61	5.11	906.95	295.12	128.24	4.72
11-Apr-12	17	23.59	wilder 5434	129	NA	3	4	2			133	8	<LOD	18	<LOD	72	126	9	<LOD	107	<LOD	350	<LOD	30	<LOD	13	7234	144	<LOD	20	<LOD	55	219	48	<LOD	0	511	47	<LOD	10	34	2	<LOD	114	<LOD	4	<LOD	103	62	3	1939	380	196	5
11-Apr-12	17	17.46	stroh 5444	129	NA	3	4	2			126.41	6.74	1.36	4.16	32.17	19.46	90.54	6.97	19.13	35.37	ND		-7.69	7.5	-3.12	3.54	3101.11	76.36	-0.31	5.49	-112.89	14.74	88.53	27.76	ND		154.82	27.3	2.2	2.99	31.67	2.04	-22.49	30.94	-1.95	1.06	21.17	27.88	52.59	2.5	311.33	195.43	197.85	4.21
11-Apr-12	18	18.77	wilder_5420	135	NA	1	1	2			321.57	12.34	<LOD	28.03	<LOD	69.32	393.66	16.3	<LOD	166.66	<LOD	881.06	<LOD	42.43	<LOD	14.44	16822.96	252.09	49.31	9.78	<LOD	48.48	<LOD	214.61	<LOD	0	529.83	52.43	<LOD	10.71	40.46	2.71	<LOD	112.41	<LOD	4.78	<LOD	108.32	163.71	4.81	1051.86	279.75	191.93	5.03
11-Apr-12	18	23.49	wilder 5434	135	NA	3	2	6	30 - 4 are covere wwith clutter		246	11	<LOD	23	<LOD	72	323	15	<LOD	133	<LOD	364	<LOD	37	<LOD	15	12147	202	<LOD	24	<LOD	56	<LOD	179	<LOD	0	483	49	<LOD	11	39	3	<LOD	116	<LOD	5	<LOD	106	80	3	2980	425	219	5
11-Apr-12	18	20.98	stroh 5444	135	NA	3	1	30			78.59	7.24	6.43	4.58	-2.62	25.43	127.74	10.42	4.34	58.35	ND		-5.89	13.38	-2.37	4.77	17552.26	281.48	12.51	8.51	-25.72	19.62	49.81	73.2	ND		630.6	60.61	2.17	3.94	68.07	3.54	22.26	41.78	-1.86	1.42	92.35	37.74	124.25	4.6	2434.47	401.68	256.05	6.16
11-Apr-12	19	18.81	wilder_5420	135	NA	1	1	2			365.14	12.83	<LOD	28.71	<LOD	67.05	311.51	14.21	<LOD	155.69	<LOD	773.23	<LOD	39.81	<LOD	14.29	16864.94	246.57	52.26	9.66	<LOD	46.33	<LOD	203.24	<LOD	0	544.66	51.37	<LOD	10.65	33.43	2.47	<LOD	105.88	<LOD	5.15	<LOD	101.7	148.64	4.48	929.96	252.59	164.49	4.6
11-Apr-12	19	22.9	wilder 5434	135	NA	3	2	6	30 - 4 are covere wwith clutter		230	10	<LOD	21	<LOD	68	275	13	<LOD	117	<LOD	388	<LOD	36	<LOD	13	14435	211	<LOD	22	<LOD	52	274	61	<LOD	0	588	49	<LOD	10	43	2	<LOD	107	<LOD	4	<LOD	98	94	3	2377	411	249	5
11-Apr-12	19	22.17	stroh 5444	135	NA	3	1	30			47.29	5.79	6.83	3.7	-20.89	23.91	107.32	9.24	12.57	55.59	ND		-6.84	12.48	-1.71	4.53	16277.66	254.62	29.73	8.9	-41.08	18.61	76.67	67.71	ND		429.5	51.09	-1.25	3.67	53.43	3.05	-7.73	39.28	-0.94	1.37	51.43	35.47	119.59	4.3	1457.8	356.92	212.08	5.38
11-Apr-12	20	20.73	wilder_5420	135	NA	1	1	2			249.3	11	<LOD	24.41	<LOD	69.32	235.71	12.87	<LOD	172.87	<LOD	849.83	<LOD	42.59	<LOD	16.02	17237.99	258.67	52.09	9.99	<LOD	48.72	<LOD	218.15	<LOD	0	671.14	57.15	<LOD	11.36	52.81	3.01	<LOD	113.19	<LOD	4.11	<LOD	109.62	119.98	4.19	1588.84	288.98	258.43	5.75
11-Apr-12	20	22.76	wilder 5434	135	NA	3	2	6	30 - 4 are covere wwith clutter		322	12	<LOD	25	<LOD	68	406	15	<LOD	124	<LOD	344	<LOD	38	<LOD	14	15381	221	<LOD	22	<LOD	53	286	64	<LOD	0	583	49	<LOD	10	41	2	<LOD	109	<LOD	4	<LOD	99	109	4	2913	400	234	5
11-Apr-12	20	20.86	stroh 5444	135	NA	3	1	30			56.62	6.42	4.73	4.02	16.23	25.1	61.4	7.83	48.72	60.16	ND		-12.01	14.05	0.51	4.91	19435.57	300.13	38.94	9.84	-6.33	19.55	178.27	77.93	ND		642.73	61.14	-4.11	3.91	67.53	3.5	-4.81	41.24	-1.07	1.47	20.27	37.37	104	4.21	2918.86	398.54	312.64	6.74
11-Apr-12	21	20.51	wilder_5420	163	NA	1	1	0			89.61	7.91	<LOD	18.13	<LOD	79.31	162.25	11.98	<LOD	186.82	<LOD	1030.43	<LOD	42.77	<LOD	14.51	13747.37	246.26	<LOD	26.84	<LOD	55.52	<LOD	215.4	<LOD	0	573.34	58.99	<LOD	13.09	62.77	3.56	<LOD	130.18	<LOD	4.98	<LOD	126.03	98.11	4.26	2082.15	349.52	377.34	7.75
11-Apr-12	21	23.03	wilder 5434	135	NA	3	3	30			87	7	<LOD	14	<LOD	67	361	14	<LOD	121	<LOD	348	<LOD	37	<LOD	15	14166	209	<LOD	20	<LOD	52	341	62	<LOD	0	419	44	<LOD	10	38	2	<LOD	106	<LOD	4	<LOD	98	82	3	1552	364	169	4
11-Apr-12	21	19.06	stroh 5444	135	NA	3	3	30			99.81	6.66	5.03	4.19	26.5	20.91	192.45	10.56	72.78	44.93	ND		6.93	9.81	-8.17	3.51	7989.66	142.52	15.97	7.1	-141.46	15.95	6.08	42.62	ND		412.01	41.76	-0.26	3.29	50.43	2.64	79.37	33.35	-2.05	1.16	71.7	30.29	75.76	3.13	1499.28	267.97	247.61	5.1
11-Apr-12	22	19.14	wilder_5420	163	NA	1	1	0			88.99	7.26	<LOD	16.46	<LOD	73.59	147.61	10.61	<LOD	178.7	<LOD	938.73	<LOD	36.93	<LOD	10.83	12672.35	215.11	<LOD	25.76	<LOD	51.13	<LOD	185.29	<LOD	0	516.52	52.4	<LOD	11.91	53.84	3.08	<LOD	120.51	<LOD	4.56	<LOD	115.95	89.53	3.77	1792.3	312.83	343.61	6.77
11-Apr-12	22	24.02	wilder 5434	135	NA	3	3	30			120	9	<LOD	20	<LOD	80	1424	36	<LOD	148	<LOD	476	<LOD	49	<LOD	18	24159	364	<LOD	30	<LOD	63	525	95	<LOD	0	929	72	<LOD	12	45	3	<LOD	127	<LOD	5	<LOD	116	81	4	2506	509	206	5
11-Apr-12	22	18.69	stroh 5444	135	NA	3	3	30			91.11	6.26	1	3.85	48.77	20.21	187.68	10.17	-33.39	39.27	ND		14.86	10.12	5.43	4.41	7745.92	136.34	1.77	6.2	-145.67	15.53	53.2	41.76	ND		383.1	39.54	7.09	3.25	47.31	2.51	53.15	32.19	-1.53	1.15	-7.78	29.15	65.13	2.88	1035.75	266.11	233.43	4.82
11-Apr-12	23	21.39	wilder_5420	163	NA	1	1	0			110.89	7.95	<LOD	17.38	<LOD	72.49	173.37	11.46	209.8	65.32	1071.5	328.36	<LOD	42.25	<LOD	16.04	13713.61	227.39	<LOD	27.36	<LOD	50.55	<LOD	191.32	<LOD	0	638.84	57.09	<LOD	11.76	53.88	3.09	<LOD	117.91	<LOD	4.84	<LOD	112.85	83.72	3.68	1361.2	311.46	310.56	6.44
11-Apr-12	23	22.98	wilder 5434	135	NA	3	3	30			103	7	<LOD	15	<LOD	70	249	12	<LOD	129	<LOD	403	<LOD	36	<LOD	12	17983	252	<LOD	24	<LOD	54	290	69	<LOD	0	532	50	<LOD	10	50	3	<LOD	110	<LOD	4	<LOD	102	91	3	2397	427	219	5
11-Apr-12	23	18.14	stroh 5444	135	NA	3	3	30			111.05	6.98	6.78	4.41	19.27	21.54	215.78	11.14	9.15	44.53	ND		6.93	10.68	5.47	4.62	9878.57	162.31	13.81	7.11	-78.61	16.24	83.36	48.21	ND		483.12	44.73	5.67	3.37	53.66	2.71	-10.67	34.42	-0.64	1.31	39.11	31.27	82.88	3.25	2144.4	314.29	287.5	5.49
11-Apr-12	24	21.54	wilder_5420	163	NA	1	1	2			99.71	7.81	<LOD	18.45	<LOD	74.06	93.67	9.03	<LOD	190.63	<LOD	1012.18	<LOD	39.12	<LOD	15.53	12304.22	217.4	<LOD	24.31	<LOD	52.51	<LOD	189.33	<LOD	0	784.48	62.23	<LOD	12.29	54.54	3.19	<LOD	120.47	<LOD	4.71	<LOD	115.96	115.48	4.34	2275.05	342.44	356.38	7.14
11-Apr-12	24	23.6	wilder 5434	163	NA	3	2	30			108	8	<LOD	18	<LOD	74	109	9	<LOD	139	<LOD	419	<LOD	39	<LOD	16	14559	236	<LOD	23	<LOD	59	<LOD	202	<LOD	0	623	56	15	4	63	3	<LOD	119	<LOD	5	<LOD	111	104	4	3618	484	328	6
11-Apr-12	24	20.59	stroh 5444	163	NA	3	1	30			73.86	6.55	3.72	4.08	85.3	23.45	82.37	8.09	30.62	49.33	ND		5	11.55	3.2	4.78	12256	205.27	11.78	7.67	-81.88	17.9	-0.38	56.91	ND		412.69	47.33	3.75	3.64	49.53	2.88	22.27	38.02	-1.07	1.34	21.65	34.29	79.92	3.52	2150.38	320.38	227.42	5.38
11-Apr-12	25	21.79	wilder_5420	163	NA	1	1	2			53.05	6.33	<LOD	14.56	<LOD	75.68	100.6	9.42	<LOD	171.57	<LOD	1019.44	<LOD	37.64	<LOD	15.3	11650.99	212.41	<LOD	25.08	<LOD	53.61	<LOD	184.5	<LOD	0	441.34	51.38	<LOD	12.55	58.69	3.33	<LOD	124.76	<LOD	4.62	<LOD	120.54	91.86	3.98	1868.49	335.48	367.96	7.34
11-Apr-12	25	23.92	wilder 5434	163	NA	3	2	30			91	8	<LOD	16	<LOD	75	95	9	<LOD	130	<LOD	385	<LOD	36	<LOD	15	10305	192	<LOD	25	<LOD	59	245	60	<LOD	0	484	50	19	4	49	3	<LOD	118	<LOD	5	<LOD	109	90	4	1236	392	279	6
11-Apr-12	25	19.46	stroh 5444	163	NA	3	1	30			92.28	6.95	6.27	4.39	64.88	23	91.6	8.24	16.58	51.29	ND		-1.8	12.49	-1.11	4.38	14472.79	222.65	24.04	8.18	-45.26	17.58	210.19	62.82	ND		454.77	48.63	-0.84	3.55	59.18	3.02	17.28	37.27	-0.11	1.43	162.43	33.41	98.63	3.75	2173.15	347.92	282.21	5.82
11-Apr-12	26	20.6	wilder_5420	163	NA	1	1	2			65.2	6.5	<LOD	14.94	<LOD	73.76	148.02	10.62	<LOD	177.92	<LOD	972.33	<LOD	37.31	<LOD	17.57	11790.26	205.08	<LOD	23.46	52.04	17.22	<LOD	181.76	<LOD	0	458.74	50.16	<LOD	12.26	59.55	3.21	<LOD	122.12	<LOD	4.46	<LOD	116.98	95.09	3.87	3088.48	349.97	448.05	7.88
11-Apr-12	26	23.9	wilder 5434	163	NA	3	2	30			93	8	<LOD	18	<LOD	79	87	9	<LOD	150	<LOD	480	<LOD	46	<LOD	18	15960	263	<LOD	26	<LOD	63	531	78	<LOD	0	697	61	21	4	57	3	<LOD	127	<LOD	5	<LOD	117	100	4	3477	528	345	7
11-Apr-12	26	20.37	stroh 5444	163	NA	3	1	30			78.58	6.54	16.6	4.4	36.82	22.47	68.53	7.36	-16.12	46.89	ND		46.83	13.37	-2.02	4.23	11888.69	196.72	20.45	8.01	-120.59	17.29	33.55	55.31	ND		535.88	50.11	3.15	3.49	35.9	2.5	18.88	35.84	0.05	1.39	18.07	32.88	99.43	3.77	1887.51	326.33	174.42	4.7
11-Apr-12	27	21.42	wilder_5420	163	NA	1	1	20			100.09	7.65	<LOD	17.84	<LOD	72.22	102.96	9.2	<LOD	165.11	<LOD	959.11	<LOD	38.77	<LOD	15.77	13635.34	226.84	<LOD	26.89	<LOD	50.33	<LOD	191.76	<LOD	0	432.45	49.88	<LOD	12.01	53.95	3.1	<LOD	116.6	<LOD	4.87	<LOD	112.6	98.16	3.94	1538.55	310.94	312.62	6.49
11-Apr-12	27	23.93	wilder 5434	163	NA	3	2	30			92	8	<LOD	18	<LOD	81	57	8	<LOD	151	<LOD	468	<LOD	43	<LOD	15	16205	270	<LOD	28	<LOD	63	330	77	<LOD	0	537	57	14	4	64	3	<LOD	131	<LOD	5	<LOD	119	104	4	3519	526	332	7
11-Apr-12	27	20.51	stroh 5444	163	NA	3	1	2			103.45	7.39	3.15	4.59	-6.12	23.1	102.12	8.77	95.97	53.65	ND		-0.96	11.71	6.2	5	11874.64	199.52	24.8	8.3	-78.89	17.78	115.55	57.46	ND		412.72	47.29	-4.56	3.55	51.3	2.9	-33.86	37.31	-1.91	1.3	24	33.68	80.93	3.52	2104.47	333.88	243.95	5.52
11-Apr-12	28	18.71	wilder_5420	163	NA	4			swing set play area		86.22	6.84	<LOD	15.37	<LOD	69.15	132.68	9.67	<LOD	161.42	<LOD	863.88	<LOD	31.17	<LOD	14.06	9075.09	165.81	<LOD	22.94	<LOD	47.67	<LOD	154.59	<LOD	0	334.39	42.47	<LOD	11.66	48.23	2.81	<LOD	113.57	<LOD	4.54	<LOD	108.02	83.45	3.49	2175.03	300.77	433.99	7.36
11-Apr-12	28	25.43	wilder 5434	163	NA	3	4	30			100	8	<LOD	17	<LOD	76	70	8	<LOD	136	<LOD	421	<LOD	40	<LOD	15	13135	224	<LOD	24	<LOD	59	242	66	<LOD	0	541	53	<LOD	11	43	3	<LOD	119	<LOD	5	<LOD	110	102	4	3917	495	257	6
11-Apr-12	28	19.29	stroh 5444	215	NA	1	2	0			309.84	11.34	11.1	7.03	41.02	21.49	248.52	12.2	9.63	46.6	ND		6.58	11.26	2.35	4.64	13416.55	202.44	41.2	8.55	-149.61	16.31	39.84	55.87	ND		238.29	38.8	1.66	3.35	38.54	2.46	0.23	33.99	-1.05	1.45	-8.8	31.13	86.44	3.39	1586.61	296.97	215.22	4.88
11-Apr-12	29	18.23	wilder_5420	163	NA	4			swing set play area		102.95	7.18	<LOD	15.84	<LOD	67.44	115.95	8.95	<LOD	150.45	<LOD	879.78	<LOD	32.61	<LOD	12	8218.7	153.17	<LOD	22.9	<LOD	46.66	<LOD	143.96	<LOD	0	440	44.8	<LOD	11.34	46.97	2.73	<LOD	109.57	<LOD	4.52	<LOD	105.11	84.16	3.44	2413.1	306.26	422.97	7.11
11-Apr-12	29	23.25	wilder 5434	163	NA	3	4	30			113	8	<LOD	16	<LOD	69	87	8	<LOD	126	<LOD	404	<LOD	34	<LOD	12	13831	213	<LOD	21	<LOD	54	243	62	<LOD	0	477	47	<LOD	10	55	3	<LOD	110	<LOD	4	<LOD	102	88	3	2862	439	272	5
11-Apr-12	29	16.34	stroh 5444	215	NA	1	2	0			348.62	10.85	-5.61	6.5	70.04	19.74	237.62	10.77	59.45	41.68	ND		31.63	10.51	-1.81	3.9	9364.53	144.56	31.72	7.27	-137.41	14.69	43.62	42.78	ND		80.66	27.7	5.19	2.98	29.46	2.01	17.96	31	0.1	1.38	63.47	28.14	75.05	2.88	707.47	226.79	159.08	3.86
11-Apr-12	30	19.67	wilder_5420	163	NA	4			swing set play area		233.36	11.1	<LOD	25.22	<LOD	73.44	293.75	14.78	<LOD	183.26	<LOD	918.99	<LOD	37.59	<LOD	14.74	14091.53	234.41	36.15	9.55	<LOD	50.77	<LOD	203.36	<LOD	0	893.1	64.79	<LOD	12.24	56.95	3.21	<LOD	117.26	<LOD	5.23	<LOD	113.87	119.66	4.35	2745.61	335.35	378.26	7.28
11-Apr-12	30	23.56	wilder 5434	163	NA	3	4	30			97	7	<LOD	16	<LOD	72	73	8	<LOD	121	<LOD	391	<LOD	37	<LOD	15	11993	202	<LOD	25	<LOD	57	187	60	<LOD	0	458	48	<LOD	11	49	3	<LOD	116	<LOD	4	<LOD	105	114	4	1828	409	259	6
11-Apr-12	30	19.12	stroh 5444	215	NA	1	2	0			308.11	11.31	8.67	6.99	12.35	21.42	229.68	11.77	-0.36	44.74	ND		11.4	11.69	2.74	4.65	12709.32	195.34	50.5	8.94	-134.15	16.36	112.35	55.51	ND		219.23	37.62	1.07	3.33	31.4	2.29	-32.12	34.09	-0.78	1.46	46.85	30.86	88.7	3.43	1505.87	280.56	205.46	4.79
11-Apr-12	31	18.74	wilder_5420	163	NA	4			swing set play area		265.74	11.58	<LOD	25.54	<LOD	72.98	333.96	15.43	<LOD	170.91	<LOD	945.48	<LOD	43.46	<LOD	16.36	14784.5	237.46	<LOD	26.96	<LOD	50.55	<LOD	202.51	<LOD	0	895.03	63.8	<LOD	12.15	59.34	3.21	<LOD	118.01	<LOD	5.14	<LOD	113.29	132.48	4.48	2586.51	333.3	448.68	7.88
11-Apr-12	31	22.98	wilder 5434	163	NA	5			house play area		108	7	<LOD	16	<LOD	69	89	8	<LOD	115	<LOD	334	<LOD	33	<LOD	14	12949	199	<LOD	21	<LOD	53	258	59	<LOD	0	489	46	<LOD	10	51	3	<LOD	108	<LOD	4	<LOD	99	77	3	3356	407	263	5
11-Apr-12	31	19.35	stroh 5444	215	NA	1	2	2			309.8	12.07	23.22	7.66	38.49	23.34	225.4	12.41	97.53	56.77	ND		20.1	13.31	1.31	4.95	15560.37	238	33.56	8.95	-47.67	17.91	59.42	63.98	ND		221.25	42.28	-2.75	3.59	49.31	2.87	41.69	38.61	-0.68	1.62	75.32	34.65	101.24	3.87	1906.64	343.69	276.55	5.87
11-Apr-12	32	18.45	wilder_5420	135	NA	4			grapes		61.49	5.93	<LOD	13.91	<LOD	69.37	52.73	6.66	<LOD	153.32	861.99	281.14	<LOD	28.29	<LOD	11.6	7312.95	143.59	<LOD	22.38	<LOD	47.06	<LOD	137.37	<LOD	0	579.76	49.15	<LOD	10.62	43.81	2.66	<LOD	112.62	<LOD	3.94	<LOD	108.24	69.65	3.19	1026.12	265.91	280.3	5.7
11-Apr-12	32	22.58	wilder 5434	163	NA	5			house play area		71	6	<LOD	12	<LOD	63	72	7	<LOD	107	<LOD	330	<LOD	30	<LOD	13	9662	154	<LOD	18	<LOD	49	244	49	<LOD	0	316	37	<LOD	9	47	2	<LOD	101	<LOD	4	<LOD	92	67	3	2556	368	244	5
11-Apr-12	32	19	stroh 5444	215	NA	1	2	2			275.12	10.62	13.14	6.65	70.57	21.47	259.64	12.34	5.46	44.43	ND		14.33	11.31	-0.07	4.42	11127.68	177.57	33.09	8.12	-127.1	16.26	80.31	51.44	ND		210.26	36.46	2.33	3.31	34.34	2.33	-18.5	34.12	-0.06	1.47	47.42	30.96	88.22	3.39	892.96	262.98	206.44	4.76
11-Apr-12	33	17.23	wilder_5420	135	NA	4			grapes		82.34	6.31	<LOD	13.96	<LOD	65.32	71	7.11	<LOD	140.07	<LOD	752.95	<LOD	30.93	<LOD	12.16	8261.23	147.77	<LOD	23.23	<LOD	44.97	<LOD	139.3	<LOD	0	670.03	49.69	<LOD	10.68	45.09	2.57	<LOD	106.91	<LOD	4.11	<LOD	101	80.54	3.23	1312.28	251.14	340.87	6.05
11-Apr-12	33	24.73	wilder 5434	163	NA	5			house play area		94	7	<LOD	14	<LOD	68	85	8	<LOD	101	<LOD	355	<LOD	30	<LOD	14	9863	165	<LOD	20	<LOD	52	<LOD	151	<LOD	0	348	40	<LOD	10	42	2	<LOD	106	<LOD	4	<LOD	99	66	3	2172	383	237	5
11-Apr-12	33	19.02	stroh 5444	215	NA	1	2	2			278.48	10.67	4.2	6.55	52.41	21.23	277.62	12.71	5.19	44.49	ND		21.52	11.3	1.86	4.54	11957.48	185.65	29.87	7.97	-162.03	16.07	-19.26	51.58	ND		179.62	35.51	4.36	3.33	30.47	2.23	-28.99	33.75	1.3	1.55	41.03	30.61	86.22	3.35	1300.85	275.71	211.38	4.79
11-Apr-12	34	18.91	wilder_5420	135	NA	4			grapes		91.9	6.52	<LOD	14.39	<LOD	64.32	115.31	8.52	<LOD	142.81	<LOD	794.19	<LOD	34.11	<LOD	12.06	10024.24	165.58	<LOD	21.08	<LOD	44.29	<LOD	148.81	<LOD	0	893.47	55.72	<LOD	10.39	50.23	2.67	<LOD	104.48	<LOD	3.36	<LOD	101.06	85.91	3.3	2125.42	278.13	349.93	6.1
11-Apr-12	34	23.05	wilder 5434	163	NA	5			house play area		87	7	<LOD	15	<LOD	70	73	7	<LOD	109	<LOD	407	<LOD	37	<LOD	14	12608	198	<LOD	23	<LOD	54	<LOD	172	<LOD	0	551	48	<LOD	11	51	3	<LOD	112	<LOD	4	<LOD	103	102	4	3295	451	367	6
11-Apr-12	34	19.87	stroh 5444	215	NA	1	2	4			386.69	13.36	27.81	8.42	32.97	22.55	297.53	14.04	66.35	54.56	ND		32.2	13.7	3.5	5.12	17503.21	256.42	37.13	9.06	-158.53	17.24	-16.96	66.09	ND		183.67	41	-9.9	3.47	45.95	2.78	12.62	36.41	-2.16	1.55	121.5	33.15	92.73	3.7	2085.82	333.55	251.6	5.56
11-Apr-12	35	18.57	wilder_5420	135	NA	4			grapes		74.04	6.26	<LOD	14.12	<LOD	66.58	46.02	6.28	<LOD	134.15	<LOD	757.89	<LOD	30.66	<LOD	11.67	7717.5	146.84	<LOD	20.59	<LOD	46.05	<LOD	140.37	<LOD	0	501.18	45.93	<LOD	10.87	37.93	2.5	<LOD	108.79	<LOD	3.79	<LOD	104.23	73.79	3.23	1246.09	253.99	297.07	5.82
11-Apr-12	35	23.13	wilder 5434	163	NA	5			house play area		81	7	<LOD	15	<LOD	74	98	9	<LOD	126	<LOD	413	<LOD	38	<LOD	15	12537	204	<LOD	23	<LOD	57	249	61	<LOD	0	411	46	13	4	59	3	<LOD	118	<LOD	4	<LOD	109	115	4	3372	464	344	6
11-Apr-12	35	17.75	stroh 5444	215	NA	1	2	4			259.6	9.62	13.69	6.05	22.87	19.85	195.49	10.07	-29.73	39	ND		19.23	10.22	0.1	4.05	10540.53	159.78	20.44	6.9	-177.77	14.89	8.52	45.73	ND		138.32	30.83	5.18	3.06	32.92	2.14	11.25	31.13	0.06	1.35	49.78	28.18	71.77	2.89	664.24	238.54	165.32	4.01
11-Apr-12	36	20.4	wilder_5420	215	NA	1	1	0	backyard		271.91	11.84	<LOD	27.33	<LOD	73.01	220	12.83	<LOD	195.02	<LOD	1014.55	<LOD	46.41	<LOD	15.97	20619.07	301.68	44.96	10.08	<LOD	51.25	<LOD	236.76	<LOD	0	291.72	48.5	<LOD	12.35	55.17	3.16	<LOD	120.34	<LOD	5.4	<LOD	115.96	124.03	4.39	1762.8	329.62	382.16	7.26
11-Apr-12	36	22.32	wilder 5434	215	NA	3	1	30			201	8	<LOD	17	<LOD	59	159	9	<LOD	92	<LOD	310	<LOD	28	<LOD	11	8707	137	<LOD	19	<LOD	46	192	44	<LOD	0	175	29	13	3	38	2	<LOD	93	<LOD	4	<LOD	84	84	3	1906	330	186	4
11-Apr-12	36	18.11	stroh 5444	215	NA	1	2	4			308.98	10.82	9.14	6.69	53.67	20.56	216.07	10.91	72.65	46.45	ND		19.68	10.99	1.12	4.32	12394.17	183.65	16.53	7.04	-127.43	15.66	11.94	51.11	ND		161.25	34.02	3.27	3.16	32.55	2.21	67.47	32.77	-2.55	1.27	38.46	29.62	72.68	3.01	1416.45	269.56	174.15	4.24
11-Apr-12	37	19.59	wilder_5420	215	NA	1	1	0	backyard		316.7	11.87	<LOD	26.31	<LOD	67.84	208.99	11.69	<LOD	167.41	<LOD	839.82	<LOD	40.77	<LOD	12.03	16575.43	242.03	30.02	8.66	<LOD	46.82	<LOD	203.88	<LOD	0	376.78	46.18	<LOD	10.92	44.5	2.71	<LOD	110.62	<LOD	4.27	<LOD	106.85	106.62	3.83	1736.98	285.87	304.48	5.99
11-Apr-12	37	22.76	wilder 5434	215	NA	3	1	30			165	8	<LOD	17	<LOD	60	146	9	<LOD	88	<LOD	271	<LOD	27	<LOD	10	7930	132	<LOD	17	<LOD	46	<LOD	125	<LOD	0	150	28	13	3	32	2	<LOD	93	<LOD	4	<LOD	85	69	3	1730	303	169	4
11-Apr-12	37	19.21	stroh 5444	215	NA	3	4	30			693.08	17.35	13.33	10.32	9.2	21.65	515.11	17.65	7.62	47.92	ND		5.02	11.62	2.52	5.13	13767.37	207.89	61.1	9.6	-186.08	16.32	65.51	57.52	ND		235.27	39.51	-4.37	3.35	29.13	2.29	-18.17	33.91	-4.58	1.55	38.01	30.83	64.08	3.05	1571.56	306.09	240.61	5.18
11-Apr-12	38	19.36	wilder_5420	215	NA	1	1	0	backyard		377.53	13.23	<LOD	29.08	<LOD	67	237.35	12.65	<LOD	132.57	<LOD	784.7	<LOD	33.47	<LOD	14.18	12783.01	207.62	<LOD	24.98	<LOD	46.83	<LOD	179.41	<LOD	0	264.02	40.77	11.9	3.76	35.36	2.55	<LOD	107.46	<LOD	5.05	<LOD	102.47	95.96	3.73	1577.44	273.02	234.28	5.37
11-Apr-12	38	22.86	wilder 5434	215	NA	3	1	30			211	9	<LOD	20	<LOD	61	210	10	<LOD	89	<LOD	294	<LOD	27	<LOD	14	9329	150	<LOD	20	<LOD	48	187	47	<LOD	0	178	31	10	3	34	2	<LOD	96	<LOD	4	<LOD	89	75	3	1936	329	184	4
11-Apr-12	38	19.68	stroh 5444	215	NA	3	4	30			576.33	15.86	13.03	9.55	27.11	21.58	619.79	19.57	61.95	48.68	ND		16.35	11.71	-10.19	4.23	12083.16	192.41	47.79	9.15	-156.98	16.58	22.99	54.03	ND		207.09	38.01	5.37	3.44	36.1	2.46	-10.73	33.72	-0.32	1.72	63.24	30.74	69.34	3.16	1617.25	287.3	208.81	4.89
11-Apr-12	39	20.95	wilder_5420	215	NA	1	1	2	backyard		389.81	13.65	<LOD	30.99	<LOD	68.94	249.99	13.19	<LOD	153.44	<LOD	821.47	<LOD	40.94	<LOD	14.3	16693.21	252.24	42.82	9.57	<LOD	48.1	<LOD	210.59	<LOD	0	270.45	43.64	<LOD	11.23	37.96	2.66	<LOD	110.61	<LOD	5.37	<LOD	106.47	88.16	3.66	1622.87	284.11	230.59	5.41
11-Apr-12	39	23.6	wilder 5434	215	NA	3	2	30			323	13	<LOD	27	<LOD	77	364	16	<LOD	144	<LOD	429	<LOD	41	<LOD	15	13207	224	<LOD	28	<LOD	60	215	66	<LOD	0	492	52	<LOD	11	48	3	<LOD	123	<LOD	5	<LOD	113	88	4	1969	445	285	6
11-Apr-12	39	17.72	stroh 5444	215	NA	3	4	30			770.66	18.12	10.87	10.67	76.95	21.92	579.99	18.47	32.18	49.11	ND		21.43	12.25	-3.19	4.82	14440.68	211.14	79.09	10.22	-70.93	16.6	31.35	57.48	ND		254.3	40.08	0.05	3.34	38.32	2.48	53.11	34.93	0.48	1.87	97.3	31.77	74.13	3.18	1663.86	305.4	249.71	5.19
11-Apr-12	40	18.97	wilder_5420	215	NA	1	1	2	backyard		273.5	9.87	<LOD	22.75	<LOD	57.99	188.74	9.95	<LOD	127.53	<LOD	664.55	<LOD	32.26	<LOD	11.49	12230.49	176.34	<LOD	20.7	<LOD	40.17	<LOD	155.28	<LOD	0	224.72	34.36	<LOD	9.2	26.12	2	<LOD	90.04	<LOD	3.86	<LOD	87.19	67.16	2.81	767.21	214.59	138.73	3.74
11-Apr-12	40	23.71	wilder 5434	215	NA	3	2	30			167	10	<LOD	21	<LOD	76	240	13	<LOD	141	<LOD	420	<LOD	38	<LOD	18	11468	204	<LOD	26	<LOD	60	220	62	<LOD	0	423	49	<LOD	12	49	3	<LOD	122	<LOD	6	<LOD	112	84	4	2066	441	308	6
11-Apr-12	40	18.52	stroh 5444	215	NA	3	4	2			303.38	10.65	11.96	6.63	-4.27	20.31	259.1	11.8	57.44	42.44	ND		3.45	9.28	2.95	4.41	8311.73	141.24	35.05	7.71	-167.51	15.33	5.33	41.98	ND		98.84	29.18	1.23	3.13	30.06	2.13	-22.26	31.87	0.08	1.42	33.51	29.09	60.31	2.78	1074.74	241.69	179.8	4.26
11-Apr-12	41	17.93	wilder_5420	215	NA	1	1	2	backyard		350.53	12.18	<LOD	27.96	<LOD	65.82	251.8	12.46	<LOD	148.66	<LOD	755.95	<LOD	40.9	<LOD	14.29	16881.57	239.08	36.2	8.74	<LOD	45.33	<LOD	199.09	<LOD	0	281.05	41.63	<LOD	10.32	34.4	2.41	<LOD	104.8	<LOD	4.36	<LOD	100.88	86.41	3.41	1150.41	252.37	193.95	4.7

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

In-Situ XRF Data

Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment		Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
11-Apr-12	41	23.88	wilder 5434	215	NA	3	2	30			152	10	<LOD	21	<LOD	78	235	13	<LOD	127	<LOD	426	<LOD	36	<LOD	16	11269	206	<LOD	28	<LOD	60	289	64	<LOD	0	424	49	14	4	49	3	<LOD	124	<LOD	5	<LOD	112	80	4	2075	448	274	6
11-Apr-12	41	18.16	stroh 5444	215	NA	3	4	2			333.7	11.22	5.32	6.87	16.9	20.48	234.14	11.32	155.47	50.05	ND		18.27	11.08	0.91	4.32	11682.01	176.34	27.54	7.54	-152.85	15.52	73.25	50.49	ND		147.41	33.52	-5.47	3.1	36	2.28	-11.69	33	-1.47	1.36	11.01	29.58	65.26	2.88	1297.95	265.69	191.85	4.41
11-Apr-12	42	21.11	wilder_5420	215	NA	1	1	4	backyard		372.19	14.03	46.4	11.02	<LOD	73.65	279.71	14.6	<LOD	193.17	<LOD	1001.31	<LOD	44.86	<LOD	16.68	23660.24	339.65	34.6	9.66	<LOD	51.48	<LOD	262.05	<LOD	0	409.96	54.23	<LOD	12.22	59.86	3.33	<LOD	120.06	<LOD	5.58	<LOD	116.28	110.32	4.24	2466.38	347.76	314.78	6.65
11-Apr-12	42	23.67	wilder 5434	215	NA	3	3	30			611	19	<LOD	38	<LOD	79	374	17	<LOD	163	619	174	<LOD	45	<LOD	17	16943	271	50	11	<LOD	61	308	76	<LOD	0	432	53	21	4	52	3	<LOD	125	<LOD	7	<LOD	115	102	4	3232	546	335	7
11-Apr-12	42	18.41	stroh 5444	215	NA	3	4	2			391.85	12.57	17.03	7.79	47.1	21.28	278.12	12.71	85.08	48.97	ND		28.38	12.34	-4.47	4.2	13681.86	202.26	40.99	8.54	-105.02	16.28	61.65	55.97	ND		247.75	38.92	1.39	3.33	38.66	2.43	7.69	34.34	-0.81	1.52	88.93	31.19	73.52	3.13	2017.72	290.68	252.95	5.19
11-Apr-12	43	19.87	wilder_5420	215	NA	1	1	4	backyard		299.15	11.44	33.52	8.98	<LOD	66.86	220.21	11.87	<LOD	159.85	<LOD	810.21	<LOD	40.48	<LOD	14.08	16574.7	239.48	39.04	8.96	<LOD	46.26	<LOD	203.69	<LOD	0	328.9	44.02	<LOD	10.71	37.42	2.52	<LOD	108.25	<LOD	4.63	<LOD	103.61	99.92	3.68	1070.93	262.09	255.47	5.43
11-Apr-12	43	22.39	wilder 5434	215	NA	3	3	30			441	12	<LOD	26	<LOD	59	297	12	<LOD	88	<LOD	289	<LOD	31	<LOD	11	7628	128	<LOD	21	<LOD	46	167	42	<LOD	0	108	27	13	3	33	2	<LOD	91	<LOD	4	<LOD	85	62	3	1542	308	216	4
11-Apr-12	43	19.41	stroh 5444	120	NA	1	1	0			400.7	14.54	57.27	9.53	35.52	25.62	722.91	23.46	62.42	65.72	ND		56.01	17.88	-4.19	5.33	27446	379.9	80.08	11.98	-11.68	19.28	73.07	88.72	ND		384.78	55.57	-0.97	3.82	47.36	3.01	-72.81	42.45	-0.27	1.87	67.36	38.19	128.4	4.56	2660.97	409.02	259.18	6.04
11-Apr-12	44	18.24	wilder_5420	215	NA	1	1	4	backyard		383.02	13.14	<LOD	29.36	<LOD	68.1	235.29	12.42	<LOD	156.98	<LOD	846.93	<LOD	41.07	<LOD	12.35	17574.1	253.56	<LOD	25.29	<LOD	46.85	<LOD	208.89	<LOD	0	319.26	44.67	<LOD	11.01	47.39	2.8	<LOD	109.69	<LOD	4.89	<LOD	105.17	106.67	3.85	1586.71	284.5	270.54	5.68
11-Apr-12	44	23.38	wilder 5434	215	NA	3	3	30			501	15	<LOD	33	<LOD	71	350	15	<LOD	142	<LOD	411	<LOD	38	<LOD	12	13798	218	29	9	<LOD	56	319	65	<LOD	0	304	43	15	4	45	3	<LOD	114	<LOD	6	<LOD	105	91	4	3099	456	293	6
11-Apr-12	44	19.34	stroh 5444	120	NA	1	1	0			846.08	21.16	50.39	12.73	61.54	23.98	1029.06	27.84	-5.86	63.03	ND		23.01	16.53	5.49	6.31	32990.59	428.57	136.61	13.76	-96.71	18.47	-65.24	93.55	ND		568.48	61.4	0.15	3.72	39.5	2.81	1.15	38.62	-5.65	1.82	93.53	35.19	133.86	4.57	2069.22	370.62	228.12	5.58
11-Apr-12	45	19.72	wilder_5420	215	NA	1	1	30	backyard		313.58	11.74	<LOD	26.31	<LOD	66.84	199.2	11.37	<LOD	172.32	<LOD	833.42	<LOD	34.37	<LOD	13.75	14609.4	220.43	40.01	8.91	<LOD	46.37	<LOD	188.62	<LOD	0	409.09	46.33	<LOD	10.99	46.62	2.74	<LOD	108.76	<LOD	4.77	<LOD	104.66	97.19	3.65	1571.43	278.9	334.2	6.23
11-Apr-12	45	23.83	wilder 5434	215	NA	3	3	2			357	13	<LOD	29	<LOD	73	224	13	<LOD	120	<LOD	349	<LOD	33	<LOD	16	10003	182	<LOD	26	<LOD	57	<LOD	167	<LOD	0	183	37	12	4	39	3	<LOD	114	<LOD	6	<LOD	104	76	3	2006	389	208	5
11-Apr-12	45	19.13	stroh 5444	120	NA	1	1	0			820.12	20.22	41.31	12.11	69.44	23.31	971.92	26.2	32.59	60.82	ND		24.78	15.68	2.16	5.86	26935.37	355.99	105.04	12.24	-117.4	17.8	66.6	83.63	ND		371.98	52.26	7.1	3.65	41.73	2.77	-45.22	37.14	-0.62	2.02	134.27	33.9	120.74	4.23	1544.03	351.98	211.02	5.22
11-Apr-12	46	19.67	wilder_5420	215	NA	1	1	30	backyard		233.76	10.1	<LOD	23.02	<LOD	66.82	151.4	9.95	<LOD	140.07	<LOD	794.37	<LOD	38.59	<LOD	13.91	11323.89	184.86	<LOD	24.62	<LOD	46.23	<LOD	166.68	<LOD	0	403.65	43.95	<LOD	10.74	47.78	2.73	<LOD	108.97	<LOD	4.39	<LOD	104.39	89.13	3.48	1113.9	257.87	311.98	5.95
11-Apr-12	46	23.83	wilder 5434	215	NA	3	3	2			468	16	<LOD	33	<LOD	77	283	14	<LOD	135	<LOD	416	<LOD	39	<LOD	15	12700	220	41	10	<LOD	59	265	66	<LOD	0	129	37	<LOD	12	43	3	<LOD	120	<LOD	5	<LOD	110	89	4	2214	445	267	6
11-Apr-12	46	18.11	stroh 5444	120	NA	1	1	0			832.92	20.58	29.02	12.2	70.02	24.19	757.49	23.12	31.88	65.17	ND		1.27	16.63	16.66	6.71	33673.46	426.4	87.17	11.75	-48.89	18.35	230.34	95.51	ND		397.34	55.96	9.39	3.78	50.46	3.01	11.71	39.42	-2.22	1.99	90.68	35.39	128.86	4.4	2060.07	382.42	273.96	5.96
11-Apr-12	47	19.76	wilder_5420	215	NA	1	1	30	backyard		138.79	8.84	<LOD	20.46	<LOD	73.8	148.07	10.84	<LOD	155.93	<LOD	925.61	<LOD	38.03	<LOD	14.09	12101.07	212.47	<LOD	26.53	<LOD	51.35	<LOD	187.43	<LOD	0	419.3	49.34	<LOD	12.18	49.97	3.05	<LOD	122.83	<LOD	5.01	<LOD	115.9	104.52	4.11	866.69	287.16	347.97	6.96
11-Apr-12	47	22.32	wilder 5434	215	NA	3	3	2			396	12	<LOD	25	<LOD	62	264	11	<LOD	102	<LOD	303	<LOD	31	<LOD	12	10649	160	<LOD	22	<LOD	47	148	48	<LOD	0	245	34	<LOD	9	36	2	<LOD	96	<LOD	4	<LOD	88	79	3	2295	342	203	4
11-Apr-12	47	19.27	stroh 5444	120	NA	1	1	0			774.31	20.34	63.32	12.47	75.23	24.63	967.77	27.18	120.77	68.15	ND		38.85	17.21	-4.21	5.69	28230.27	383.25	210.9	16.16	-4.52	19.08	106.07	89.16	ND		386.66	55.52	5.98	3.72	24.98	2.44	-5.74	40.41	2.89	2.27	69.86	36.59	158.57	4.98	2268.17	393.42	149.74	4.75
11-Apr-12	48	20.87	wilder_5420	119	NA	1	1	0	backyard		487.85	15.87	<LOD	35.32	<LOD	73.5	317.96	15.31	<LOD	192.29	<LOD	1013.25	<LOD	44.94	<LOD	17.58	22193.98	319.71	34.02	9.54	<LOD	50.84	<LOD	250.57	<LOD	0	337	50.74	<LOD	11.92	48.42	3.03	<LOD	117.66	<LOD	5.78	<LOD	113.26	111.35	4.21	1825.07	331.91	310.13	6.51
11-Apr-12	48	22.35	wilder 5434	215	NA	3	3	4			321	11	<LOD	23	<LOD	60	244	11	<LOD	97	<LOD	330	<LOD	31	<LOD	10	9680	149	<LOD	21	<LOD	47	224	47	<LOD	0	174	30	11	3	38	2	<LOD	93	<LOD	4	<LOD	85	69	3	1545	336	205	4
11-Apr-12	48	20.95	stroh 5444	120	NA	1	1	2			597.87	18.91	33.33	11.58	0.67	26.23	539.86	21.33	111.8	72.33	ND		42.53	18.61	-5.13	5.56	28330.35	412.45	84.23	12.82	-45.05	20.27	106.61	95.56	ND		297.1	56.25	2.63	4.12	44.39	3.14	-22.03	42.93	-3.33	1.91	35.4	39.42	135.24	4.95	2380.9	422.98	275.31	6.6
11-Apr-12	49	21.01	wilder_5420	119	NA	1	1	0	backyard		465.24	17.31	<LOD	38.11	<LOD	80.9	313.91	17.03	<LOD	201.91	<LOD	1085.7	<LOD	50.42	<LOD	19.75	20621.9	339.55	53.19	11.68	<LOD	56.81	<LOD	273.72	<LOD	0	398.67	57.97	<LOD	13.41	54.26	3.54	<LOD	130.44	<LOD	6.14	<LOD	126.17	110.5	4.69	2066.54	367.89	326.82	7.49
11-Apr-12	49	23.04	wilder 5434	215	NA	3	3	4			351	12	<LOD	25	<LOD	66	202	11	<LOD	114	<LOD	359	<LOD	33	<LOD	14	10115	167	<LOD	24	<LOD	51	215	52	<LOD	0	134	32	10	3	39	2	<LOD	103	<LOD	5	<LOD	96	77	3	1994	379	207	5
11-Apr-12	49	21.87	stroh 5444	120	NA	1	1	2			604.4	18.39	29.41	11.2	-10.17	25.31	475.86	19.32	-3.23	64.93	ND		23.48	16.99	3.71	6.01	27217.12	386.31	60.4	11.38	-29.82	19.67	83.25	90.36	ND		520.67	60.9	-0.79	4.02	56.75	3.33	-25.74	41.87	-0.12	2.07	81.58	37.77	148.88	5.01	2610.16	428.39	341.15	7.14
11-Apr-12	50	20.02	wilder_5420	119	NA	1	1	0	backyard		549.37	17.93	<LOD	39.99	<LOD	77.51	371.58	17.57	<LOD	207.15	<LOD	1110.68	<LOD	50.68	<LOD	20.25	23633.58	355.9	48.22	10.95	<LOD	54.45	<LOD	271.64	<LOD	0	364.59	55.54	<LOD	13.09	60.57	3.52	<LOD	126.35	<LOD	5.54	<LOD	120.85	124.73	4.71	2229.5	369.84	342.76	7.31
11-Apr-12	50	22.87	wilder 5434	215	NA	3	3	4			324	11	<LOD	24	<LOD	65	195	10	<LOD	102	<LOD	296	<LOD	33	<LOD	13	9640	158	<LOD	21	<LOD	50	251	50	<LOD	0	185	32	<LOD	10	38	2	<LOD	100	<LOD	4	<LOD	92	76	3	2433	349	226	5
11-Apr-12	50	19.48	stroh 5444	120	NA	1	1	2			590.37	17.14	26.22	10.44	34.09	23.6	766.11	23.36	79.72	64.38	ND		11.96	15.44	0.95	5.57	28331.96	375.53	85.23	11.6	-106.43	18.12	42.9	86.63	ND		388.81	54.06	-0.73	3.65	40.99	2.77	42	38.51	-2.51	1.77	79.33	34.78	123.06	4.32	1687.76	363.09	224.71	5.45
11-Apr-12	51	19.3	wilder_5420	119	NA	1	1	2	backyard		556.29	17.11	<LOD	37.8	<LOD	72.84	427.32	17.84	<LOD	191.17	1412.61	354.59	<LOD	44.63	<LOD	18.57	21714.8	316.46	65.74	11	<LOD	51	<LOD	249.72	<LOD	0	403.25	53.16	<LOD	11.95	43.59	2.94	<LOD	116.75	<LOD	6.46	<LOD	113.86	112	4.24	<LOD	959.86	267.19	6.08
11-Apr-12	51	23.25	wilder 5434	120	NA	3	1	30			383	13	<LOD	28	<LOD	68	304	14	<LOD	126	<LOD	354	<LOD	33	<LOD	15	13590	208	32	9	<LOD	53	<LOD	181	<LOD	0	373	43	12	3	44	3	<LOD	106	<LOD	5	<LOD	98	95	4	2179	388	227	5
11-Apr-12	51	19.1	stroh 5444	120	NA	1	1	4			654.43	18.34	23.52	11.05	9.94	23.72	712.1	22.76	80.27	68.88	ND		0.86	17.27	-0.77	5.57	35081.19	448.8	88.73	11.98	-92.52	18.46	281.31	99.54	ND		616.72	63.61	-0.28	3.76	41.68	2.84	56.06	39.04	-2.72	1.85	168.84	35.24	129.3	4.48	2040.5	387.37	280.44	6.14
11-Apr-12	52	20.59	wilder_5420	119	NA	1	1	2	backyard		500.98	16.29	<LOD	36.06	<LOD	74.7	300.76	15.11	<LOD	213.67	<LOD	1106.46	<LOD	48.99	<LOD	17.42	28309.35	387.34	53.01	10.49	<LOD	51.79	293.04	96.79	<LOD	0	373.59	55.28	<LOD	12.58	62.59	3.4	<LOD	120.68	<LOD	5.87	<LOD	115.09	132.75	4.61	2170.18	361.4	356.11	7.11
11-Apr-12	52	23.55	wilder 5434	120	NA	3	1	30			552	17	<LOD	35	<LOD	73	397	17	<LOD	150	<LOD	408	<LOD	45	<LOD	18	19721	287	43	10	<LOD	57	293	77	<LOD	0	502	53	16	4	41	3	<LOD	115	<LOD	6	<LOD	107	107	4	2853	456	246	5
11-Apr-12	52	19.79	stroh 5444	120	NA	1	1	4			859.36	21.56	58.3	13.01	29.26	23.7	923.08	26.46	31.38	67.57	ND		6.89	17.28	2.96	6.15	34207.68	445.32	103.47	12.69	-173.19	18.28	222.65	98.89	ND		798.66	68.78	-0.09	3.71	37.83	2.79	55.5	38.32	0.06	2.17	50.32	34.81	127.74	4.51	1999.16	397.23	190.27	5.19
11-Apr-12	53	20.57	wilder_5420	119	NA	1	1	2	backyard		492.64	17.58	<LOD	38.7	<LOD	80.33	358.06	17.85	<LOD	209.07	1292.45	403.71	<LOD	50.09	<LOD	16.78	24381.93	377.78	<LOD	31.34	<LOD	56.33	<LOD	281.04	<LOD	0	266.92	54.18	<LOD	13.48	52.88	3.46	<LOD	131.21	<LOD	6.22	<LOD	124.75	120.55	4.81	1876.87	386.23	325.83	7.38
11-Apr-12	53	23.63	wilder 5434	120	NA	3	1	30			290	12	<LOD	26	<LOD	74	206	12	<LOD	129	<LOD	419	<LOD	39	<LOD	15	13772	224	<LOD	26	<LOD	57	258	66	<LOD	0	266	42	<LOD	11	52	3	<LOD	118	<LOD	5	<LOD	109	118	4	1549	422	237	5
11-Apr-12	53	1.89	stroh 5444	120	NA	1	1	4			707.13	62.58	20.47	37.41	144.01	83.09	686.97	73.19	141.78	230.07	ND		29.76	53.61	-14.2	15.24	31778.31	1360.48	66.55	36.68	-16.4	61.87	-134.77	298.15	ND		285.97	174.37	14.18	12.84	34.91	8.79	374.67	136.32	-12.03	3.95	56.3	118.05	166.41	16.56	3321.4	1399.07	287.88	20.5
11-Apr-12	54	19.21	wilder_5420	119	NA	1	1	4	backyard		115.42	8.18	<LOD	18.55	<LOD	74.82	96.41	9.04	<LOD	204.71	1099.78	348.58	<LOD	45.13	<LOD	13.74	20539.98	303.36	<LOD	25.95	<LOD	51.81	341.93	83.64	<LOD	0	<LOD	128.63	<LOD	11.92	52.3	3.1	<LOD	123.96	<LOD	4.66	<LOD	118.56	91.13	3.86	1611.44	333.53	300.87	6.41
11-Apr-12	54	23.9	wilder 5434	120	NA	3	1	2			239	11	<LOD	23	<LOD	73	181	11	<LOD	124	<LOD	374	<LOD	35	<LOD	14	11298	198	<LOD	24	<LOD	57	<LOD	174	<LOD	0	218	39	<LOD	11	41	3	<LOD	114	<LOD	5	<LOD	106	105	4	2086	408	201	5
11-Apr-12	54	19.27	stroh 5444	120	NA	1	1	4			742.44	19.92	27.22	11.91	32.77	24.58	777.11	24.18	145.51	73.6	ND		21.04	17.54	-0.14	5.81	36632.32	470.82	104.23	12.79	-91.23	18.76	21.62	100.44	ND		497.32	61.91	-0.98	3.79	54.23	3.18	7.24	40.32	-1.48	2.02	22.91	36.62	135.67	4.65	2371.57	409.89	262.24	6.03
11-Apr-12	55	19.62	wilder_5420	119	NA	1	1	4	backyard		568.22	17.84	<LOD	39.22	<LOD	75.68	417.04	18.19	<LOD	199.92	<LOD	982.09	<LOD	48.7	<LOD	17.52	24947.79	361.67	68.81	11.55	<LOD	53.01	<LOD	272.02	<LOD	0	358.99	54.32	<LOD	12.41	42.7	3.02	<LOD	123.54	<LOD	6.08	<LOD	118.54	121.6	4.55	2294.77	344.39	299.34	6.65
11-Apr-12	55	23.72	wilder 5434	120	NA	3	1	2			329	13	<LOD	28	<LOD	73	236	13	<LOD	129	<LOD	423	<LOD	41	<LOD	14	15002	240	<LOD	28	<LOD	57	<LOD	204	<LOD	0	325	45	<LOD	11	49	3	<LOD	117	<LOD	5	<LOD	106	123	4	3147	472	255	6
11-Apr-12	55	19.48	stroh 5444	120	NA	1	1	8			863.49	22.18	34.21	13.15	10.87	25.32	831.79	25.69	153.4	76.88	ND		31.03	19.51	-1.22	6.04	36008.51	475.82	121.64	13.85	-48.69	19.47	334.47	105.07	ND		574.8	65.74	7.21	4	44.64	3.05	29.66	41.31	-2.22	2.13	93.15	37.39	148.94	4.98	1919.47	422.79	281.57	6.41
11-Apr-12	56	19.34	wilder_5420	119	NA	1	1	4	backyard		536.73	16.65	<LOD	36.85	<LOD	72.77	368.57	16.43	<LOD	176.83	<LOD	923.32	<LOD	45.49	<LOD	16.85	21342.01	310.11	41.46	9.89	<LOD	50.46	<LOD	244.15	<LOD	0	261.65	47.24	<LOD	11.71	47.85	3.01	<LOD	117.03	<LOD	6.04	<LOD	113.32	113.84	4.24	1771.72	313.1	282.87	6.2
11-Apr-12	56	23.28	wilder 5434	120	NA	3	1	2			172	9	<LOD	19	<LOD	70	144	10	<LOD	120	<LOD	337	<LOD	34	<LOD	13	11632	192	<LOD	23	<LOD	55	248	58	<LOD	0	305	41	15	4	46	3	<LOD	111	<LOD	5	<LOD	102	141	4	2465	390	256	5
11-Apr-12	56	19.95	stroh 5444	120	NA	1	1	8			915.94	22.46	51.17	13.39	0.31	24.03	982.95	27.54	-60.08	62.57	ND		-1.49	16.84	1.12	6.14	31465.28	419.36	123.8	13.47	-117.91	18.66	267.96	96.09	ND		549.16	61.38	-3.78	3.7	40.28	2.87	82.78	38.39	-2.6	2.07	48.37	34.86	134.56	4.65	1473.75	384.96	201.51	5.36
11-Apr-12	57	19.99	wilder_5420	119	NA	1	1	6	backyard		374.32	13.93	<LOD	32.15	<LOD	71.41	295.83	14.83	<LOD	174.59	<LOD	918.44	<LOD	39.34	<LOD	13.84	16893.29	264.65	28.94	9.23	<LOD	50.15	<LOD	221.43	<LOD	0	226.05	44.29	12.16	4	39.85	2.81	<LOD	115.05	<LOD	5.54	<LOD	109.68	93.48	3.9	1192.46	295.92	249.32	5.85
11-Apr-12	57	23.75	wilder 5434	119	NA	1	2	0			390	14	<LOD	30	<LOD	75	248	13	<LOD	152	<LOD	456	<LOD	46	<LOD	16	21504	312	34	10	<LOD	58	421	83	<LOD	0	386	51	<LOD	11	46	3	<LOD	118	<LOD	5	<LOD	108	82	4	2950	492	217	5
11-Apr-12	57	19.83	stroh 5444	120	NA	1	1	8			805.77	20.81	53.65	12.61	-5.85	23.93	754.93	23.78	-21.21	63.18	ND		23.53	17.76	1.89	5.95	31648.5	419.19	122.07	13.34	-138.91	18.44	274.28	95.94	ND		364.99	55.58	1.77	3.76	43.52	2.93	31.81	38.66	-1.84	2.03	32.29	34.79	121.16	4.4	1957.43	386.88	219.62	5.53
11-Apr-12	58	20.47	wilder_5420	119	NA	1	1	6	backyard		408.01	14.14	<LOD	31.66	<LOD	71.37	297.53	14.51	<LOD	166.05	<LOD	919.51	<LOD	40.57	<LOD	16.02	18072.87	269.97	46.98	9.84	<LOD	49.43	<LOD	224.18	<LOD	0	254.29	44.63	<LOD	11.88	41.99	2.8	<LOD	117.56	<LOD	4.74	<LOD	112.02	109.43	4.08	1591.5	304	318.54	6.45
11-Apr-12	58	23.18	wilder 5434	119	NA	1	2	0			298	12	<LOD	25	<LOD	70	210	11	<LOD	122	<LOD	361	<LOD	38	<LOD	13	14579	220	<LOD	24	<LOD	54	275	64	<LOD	0	274	40	12	3	43	3	<LOD	110	<LOD	5	<LOD	102	80	3	1488	375	211	5
11-Apr-12	58	19.67	stroh 5444	120	NA	1	1	12			550.02	17.13	86.76	11.2	33.74	24.79	1239.6	31.6	53.42	65.84	ND		22.99	16.09	3.04	6.29	25414.87	358.99	215.47	16.54	-34.33	19.21	11.1	85	ND		721.02	65.21	7.87	3.86	56.5	3.26	-68.57	40.7	-0.46	1.99	107.69	36.91	228.38	6.07	1724.1	391.82	208.23	5.57
11-Apr-12	59	18.95	wilder_5420	119	NA	1	1	6	backyard		518.56	16.31	<LOD	36.22	<LOD	72.62	359.69	16.23	<LOD	184.55	<LOD	991.74	<LOD	48.21	<LOD	17.07	21682.63	313.02	60.35	10.73	<LOD	50.28	<LOD	247.88	<LOD	0	353.82	50.72	<LOD	11.95	56.76	3.21	<LOD	116.12	<LOD	5.25	<LOD	111.83	129.32	4.48	2656.09	346.97	347.71	6.91
11-Apr-12	59	22.15	wilder 5434	119	NA	1	2	0			376	12	<LOD	25	<LOD	65	251	12	<LOD	123	<LOD	360	<LOD	42	<LOD	14	21261	265	<LOD	24	<LOD	51	387	71	<LOD	0	380	43	<LOD	10	50	3	<LOD	104	<LOD	4	<LOD	96	79	3	2162	386	230	5
11-Apr-12	59	19.97	stroh 5444	120	NA	1	1	12			884.77	21.67	30.06	12.78	-0.64	23.48	988.35	27.19	27.82	63.58	ND		-8.63	15.52	-1.7	5.78	30654.95	404.47	119.39	13.02	-143.12	18.19	138.25	92.12	ND		415.06	56.18	0.64	3.64	39.37	2.8	19.81	37.39	-4.95	1.84	75.01	34.05	108.41	4.14	1403.13	353.66	157.18	4.74
11-Apr-12	60	21.14	wilder_5420	119	NA	1	1	50	backyard		182.01	9.68	<LOD	22.13	<LOD	70.92	152.36	10.7	<LOD	173.36	<LOD	805.68	<LOD	38.69	<LOD	14.71	13176.31	218.67	29.53	9.11	<LOD	49.36	<LOD	187.34	<LOD	0	321.07	45.18	<LOD	11.54	42.32	2.79	<LOD	115.83	<LOD	5.14	<LOD	109.47	96.7	3.86	1623.76	282.57	276.29	6
11-Apr-12	60	24.07	wilder 5434	119	NA	1	2	2			342	14	<LOD	30	<LOD	77	231	14	<LOD	140	<LOD	451	<LOD	47	<LOD	15	20642	318	<LOD	29	<LOD	61	340	85	<LOD	0	375	52	<LOD	12	38	3	<LOD	123	<LOD	6	<LOD	113	79	4	2536	487	189	5
11-Apr-12	60	17.95	stroh 5444	120	NA	1	1	12			920.38	20.12	30.32	11.83	86.28	21.38	1190.47	27.37	78.07	56.21	ND		46.25	14.95	3.6	5.66	22680.43	291.97	130.23	12.2	-158.81	16.34	113.67	72.47	ND		551.53	52.45	-1.89	3.25	35.81	2.45	-37.66	33.82	-1.45	1.88	-11.67	30.75	110.46	3.79	1068.08	300	150.39	4.22
11-Apr-12	61	19.29	wilder_5420	119	NA	1	1	50	backyard		174.89	8.87	23.15	7.04	<LOD	67.48	132.83	9.4	<LOD	163.32	902.07	299.57	<LOD	36.64	<LOD	14.11	15370.66	225.96	<LOD	23.83	<LOD	46.58	<LOD	194.88	<LOD	0	305.46	42.75	<LOD	10.93	48.68	2.75	<LOD	108.15	<LOD	4.37	<LOD	104.56	105.94	3.75	1527.34	289.62	310.7	5.95
11-Apr-12	61	22.37	wilder 5434	119	NA	1	2	2			412	12	<LOD	26	<LOD	60	263	11	<LOD	109	<LOD	343	<LOD	36	<LOD	14	18612	231	28	8	<LOD	47	383	64	<LOD	0	228	36	12	3	36	2	<LOD	93	<LOD	5	<LOD	85	76	3	1397	346	150	4
11-Apr-12	61	19.52	stroh 5444	120	NA	1	1	12			695.38	19.17	53.3	11.8	46.04	24.48	547.62	20.1	152.55	69.04	ND		34.23	17.02	-3.41	5.45	25641.02	356.57	109.13	12.88	-46	18.88	171.87	86.04	ND		740.41	65.08	5.09	3.94	66.64	3.44	-24.59	39.42	-1.21	2.02	115.06	36.31	128.08	4.52	3161.71	423.56	353.42	7.01
11-Apr-12	62	19.59	wilder_5420	119	NA	1	1	8	backyard		383.39	13.56	<LOD	30.86	<LOD	68.43	298.9	14.38	<LOD	158.07	<LOD	818.92	<LOD	39.94	<LOD	14.26	15554.11	240.82	43.86	9.62	<LOD	47.65	<LOD	203.48	<LOD	0	191.57	40.43	<LOD	11.13	36.83	2.63	<LOD	108.24	<LOD	4.79	<LOD	105.32	91.3	3.72	1018.6	267	206.27	5.16
11-Apr-12	62	23.3	wilder 5434	119	NA	1	2	2			382	14	<LOD	29	<LOD	72	291	14	<LOD	144	<LOD	406	<LOD	42	<LOD	17	21693	302	33	9	<LOD	57	383	80	<LOD	0	350	48	<LOD	11	41	3	<LOD	115	<LOD	5	<LOD	107	90	4	1686	420	204	5
11-Apr-12	62	19.49	stroh 5444	120	NA	1	1	12			849.96	20.5	1.21	11.87	46.36	22.79	796.08	23.37	136.36	63.33	ND		43.48	15.56	3.25	5.72	27206.1	356.79	84.39	11.33	-170.8	17.38	-98.13	81.73	ND		690.94	60.9	2.85	3.52	28.97	2.43	15.26	36.23	0.57	2.05	105.92	32.89	84.45	3.59	1501.14	319.63	149.78	4.46
11-Apr-12	63	19	wilder_5420	119	NA	1	1	10	backyard		409.74	14.15	<LOD	30.67	<LOD	70.94	227.75	12.77	<LOD	182.65	<LOD	842.34	<LOD	43.95	<LOD	16.05	17790.26	266.19	44.64	9.79	<LOD	48.74	<LOD	217.46	<LOD	0	231.01	43.82	<LOD	11.24	37.6	2.68	<LOD	113.8	<LOD	5.44	<LOD	110.24	102.44	3.94	1106.88	275.82	240.88	5.59
11-Apr-12	63	23.65	wilder 5434	119	NA	1	2	4			327	13	35	10	<LOD	74	249	13	<LOD	132	<LOD	396	<LOD	42	<LOD	16	18572	277	32	9	<LOD	58	378	77	<LOD	0	262	44	<LOD	11	37	3	<LOD	119	<LOD	5	<LOD	109	84	4	2097	428	175	5
11-Apr-12	63	19.89	stroh 5444	120	NA	1	1	20			773.66	20.68	41.49	12.46	39.25	24.91	653.39	22.4	50.37	64.26	ND		44.13	17.54	0.24	5.88	25566.93	362.14	112.16	13.24	-71.27	19.07	144.1	87.07	ND		610.35	62.04	2.64	3.93	59.08	3.33	-77.31	40.01	-1.82	2.05	32.4	36.89	117.03	4.41	2157.46	383.75	306.15	6.6
11-Apr-12	64	19.44	wilder_5420	119	NA	1	1	10	backyard		455.35	14.92	<LOD	33.71	<LOD	69.45	293.3	14.37	<LOD	175.59	<LOD	883.64	<LOD	38.13	<LOD	15.02	18853.35	277.31	48.21	9.74	<LOD	48.21	269.29	77.35	<LOD	0	330.12	47.6	<LOD	11.39	45.74	2.88	<LOD	110.63	<LOD	5.24	<LOD	107.34	100.63	3.91	1581.87	296.62	228.64	5.46
11-Apr-12	64	24.83	wilder 5434	119	NA	1	2	4			466	15	<LOD	31	<LOD	71	316	14	<LOD	140	<LOD	386	<LOD	38	<LOD	15	19820	277	34	9	<LOD	55	494	77	<LOD	0	364	46	<LOD	11	44	3	<LOD	114	<LOD	5	<LOD	103	96	4	2527	426	217	5
11-Apr-12	64	19.33	stroh 5444	120	NA	1	1	20			495.54	15.78	30.14	9.79	58.21	24.39	405.29	17	18.81	58.32	ND		17.6	15.18	-3.83	5.06	21014.95	303.68	47.73	10.16	-31.48	18.65	142.75	77.12	ND		476.48	54.52	4.12	3.88	58.22	3.19	-6.48	40.37	-2.41	1.75	185.14	36.47	115.26	4.24	3220.79	404.28	358.99	6.96
11-Apr-12	65	20.16	wilder_5420	119	NA	1	1	10	backyard		425.84	13.79	<LOD	30.74	<LOD	67.26	301.1	13.93	<LOD	163.82	<LOD	795.49	<LOD	39.12	<LOD	14.86	16678.33	243.45	56.47	9.75	<LOD	46.42	<LOD	207.93	<LOD	0	231.69	41.22	<LOD	10.86	40.56	2.63	<LOD	107.87	<LOD	4.98	<LOD	103.28	105.79	3.82	1375.61	268.45	228.05	5.21
11-Apr-12	65	22.55	wilder 5434	119	NA	1	2	4			376	12	<LOD	27	<LOD	67	277	13	<LOD	127	<LOD	356	<LOD	40	<LOD	14	19747	260	31	9	<LOD	52	440	72	<LOD	0	253	40	<LOD	10	42	2	<LOD	107	<LOD	5	<LOD	98	96	3	1700	375	221	5
11-Apr-12	65	20.41	stroh 5444	120	NA	1	1	20			428.55	15.04	0.88	9.05	51.92	24.73	357.54	16.43	124.77	64.91	ND		33	14.96	-9.7	4.54	19629.68	297.41	69.02	11.32	-84.15	18.91	-91.62	73.72	ND		513.37	57.03	-0.23	3.94	60.22	3.32	98.69	40.24	-3.56	1.62	117.99	36.81	108.33	4.23	2264.92	391.24	356.61	7.13
11-Apr-12	66	22.29	wilder_5420	119	NA	1	1	14	backyard		307.03	13.1	<LOD	29.19	<LOD	74.56	233.41	13.78	<LOD	171.47	<LOD	964.61	<LOD	39.48	<LOD	13.89	16497.59	270.52	43.08	10.29	<LOD	52.32	<LOD	225.36	<LOD	0	308.39	48.77	<LOD	12.08	38.9	2.89	<LOD	119.91	<LOD	5.27	<LOD	115.67	87.85	3.95	<LOD	889.88	224.23	5.77
11-Apr-12	66	24.57	wilder 5434	119	NA	1	2	6			317	12	<LOD	25	<LOD	70	198	11	<LOD	127	<LOD	387	<LOD	37	<LOD	14	17771	248	<LOD	25	<LOD	54	397	70	<LOD	0	330	43	<LOD	10	40	2	<LOD	111	<LOD	5	<LOD	101	102	4	2974	431	223	5
11-Apr-12	66	18.79	stroh 5444	120	NA	1	1	20			727.68	18.94	-5.74	11.03	62.17	23.83	626.1	20.76	170.77	66.33	ND		31.47	16.08	9.42	6.05	24444.28	331.42	96.07	11.88	-69.52	18.05	191.73	81.35	ND		411.31	53.14	-6.67	3.59	41.95	2.77	17.28	38.9	-2.51	1.84	69.9	34.88	96.91	3.84	1701.74	361.05	275.62	5.9
11-Apr-12	67	20.64	wilder_5420	119	NA	1	1	14	backyard		523.22	15.67	<LOD	34.95	<LOD	68.39	323.92	14.75	<LOD	180.88	<LOD	867.19	<LOD	41.51	<LOD	15.37	19167.14	274.31	54.89	9.95	<LOD	47.72	<LOD	224.21	<LOD	0	354.65	47.73	<LOD	11.08	37.98	2.64	<LOD	109.87	<LOD	5.29	<LOD	105.26	80.35	3.49	884.31	272.58	235.09	5.38
11-Apr-12	67	23.29	wilder 5434	119	NA	1	2	6			375	13	<LOD	28	<LOD	73	212	12	<LOD	135	<LOD	438	<LOD	46	<LOD	15	19175	275	<LOD	28	<LOD	57	364	75	<LOD	0	357	47	<LOD	11	45	3	<LOD	116	<LOD	5	<LOD	106	100	4	1982	446	231	5
11-Apr-12	67	20.02	stroh 5444	120	NA	1	1	20			708.99	19	21.11	11.34	41.2	23.51	629	21.15	-7.95	59.19	ND		22.38	15.88	-1.07	5.45	25485.73	348.18	94.79	12	-146.76	17.99	133.24	83.67	ND		507.14	56.57	0.48	3.72	46.95	2.93	69.63	37.55	-0.73	1.96	54.99	33.72	105.05	4.05	2433.05	386.52	263.3	5.88
11-Apr-12	68	19.55	wilder_5420	119	NA	1	1	14	backyard		311.76	11.66	<LOD	26.38	<LOD	66.9	175.99	10.7	<LOD	158.83	<LOD	821.93	<LOD	38.53	<LOD	13.57	18738.03	260.27	30.28	8.46	<LOD	46.44	<LOD	215.64	<LOD	0	300.81	43.7	<LOD	10.65	44.17	2.67	<LOD	108.65	<LOD	4.89	<LOD	104.17	92.85	3.56	2031.06	288.77	255.63	5.41
11-Apr-12	68	22.98	wilder 5434	119	NA	1	2	6			294	11	<LOD	25	<LOD	69	176	11	<LOD	121	<LOD	382	<LOD	38	<LOD	15	16968	242	<LOD	24	<LOD	54	409	69	<LOD	0	230	39	14	3	46	3	<LOD	108	<LOD	5	<LOD	101	108	4	2240	409	234	5
11-Apr-12	68	18.67	stroh 5444	120	NA	1	1	30			1008.45	22.62	44.65	13.28	55.29	23.33	824.99	23.87	-77.5	56.32	ND		28.78	16.08	5	6.07	27846.86	363.12	119.26	12.68	-106.13	17.78	104.94	84.95	ND		584.47	58.19	3.01	3.62	48.84	2.94	21.04	37.55	0.69	2.21	53.19	34.3	108.88	4.02	2023.05	371.67	236.83	5.46
11-Apr-12	69	18.46	wilder_5420	119	NA	1	1	20	backyard		313.65	11.93	<LOD	27.54	<LOD	67.97	266.97	13.23	<LOD	173.54	<LOD	821.27	<LOD	40.89	<LOD	15.2	17907.5	257.26	41.9	9.26	<LOD	47.47	<LOD	210.89	<LOD	0	290.17	44.21	<LOD	10.95	45.51	2.75	<LOD	109.16	<LOD	5.14	<LOD	104.83	95.59	3.68	1455.21	276.65	248.68	5.45
11-Apr-12	69	23.38	wilder 5434	119	NA	1	2	8			375	13	<LOD	28	<LOD	72	248	13	<LOD	143	<LOD	435	<LOD	42	<LOD	14	19013	273	30	9	<LOD	56	505	77	<LOD	0	459	50	<LOD	11	52	3	<LOD	112	<LOD	5	<LOD	103	118	4	2926	468	230	5
11-Apr-12	69	20.22	stroh 5444	120	NA	1	1	30			415.49	14.07	23.53	8.76	64.46	23.79	377.24	16.04	91.57	63.19	ND		40.9	15.66	4.35	5.43	25050.49	337.16	67.92	10.81	-42.03	18.16	-51.28	79.49	ND		655.25	59.93	-5.11	3.73	57.82	3.1	37.66	38.57	-2.16	1.67	177.44	35.06	115.15	4.14	2320.59	381.33	395.93	7.17
11-Apr-12	70	19.93	wilder_5420	119	NA	1	1	20	backyard		395.86	14.47	86.41	11.82	<LOD	72.48	294.92	14.95	221.35	69.27	<LOD	959.87	<LOD	46.43	<LOD	15.36	21658.12	318.27	<LOD	27.96	<LOD	50.82	<LOD	248.15	<LOD	0	377.65	52.77	<LOD	12.16	44.93	2.97	<LOD	114.65	<LOD	6.03	<LOD	112.15	101.51	4.09	1708.17	320.18	278.77	6.24
11-Apr-12	70	23.42	wilder 5434	119	NA	1	2	8			417	15	<LOD	31	<LOD	76	280	14	<LOD	161	<LOD	446	<LOD	46	<LOD	16	23511	330	32	10	<LOD	59	498	87	<LOD	0	367	50	15	4	42	3	<LOD	121	<LOD	6	<LOD	111	103	4	3276	495	241	5
11-Apr-12	70	18.94	stroh 5444	120	NA	1	1	30			1104.22	23.42	60.02	13.73	56.78	22.5	830.06	23.53	101.6	58.94	ND		43.18	14.83	1.42	5.8	22388.23	303.14	115.34	12.27	-121.08	17.33	-65.31	73.39	ND		443.83	51.63	-2.98	3.48	40.34	2.69	26.57	36.2	0.46	2.2	96.82	32.7	84.96	3.56	2465.37	346.94	221.52	5.18
11-Apr-12	71	20.4	wilder_5420	119	NA	1	1	20	backyard		301.81	11.63	33.36	9.13	<LOD	66.51	282.62	13.49	<LOD	157.4	<LOD	791.95	<LOD	40.35	<LOD	13.31	17141.53	248.33	31.22	8.74	<LOD	46.37	<LOD	206.95	<LOD	0	342.49	45.05	<LOD	10.67	44.62	2.71	<LOD	107.39	<LOD	4.62	<LOD	102.5	81.72	3.42	1014.46	258.5	221.46	5.12
11-Apr-12	71	23.34	wilder 5434	119	NA	1	2	8			516	16	<LOD	34	<LOD	73	349	15	<LOD	152	<LOD	394	<LOD	42	<LOD	15	22944	315	34	10	<LOD	56	316	82	<LOD	0	369	49	16	4	45	3	<LOD	115	<LOD	6	<LOD	107	105	4	3369	460	207	5
11-Apr-12	71	19.68	stroh 5444	120	NA	1	1	40			991.51	23.45	67.34	13.99	39.14	24.18	960.45	27.15	129.61	71.35	ND		46.23	18.46	-2	5.97	34671.47	451.16	167.78	14.98	-147.54	18.46	98.5	98.57	ND		532.63	62.16	10.18	3.82	46.66	3.02	75.3	37.81	-0.64	2.23	112.17	34.96	94.46	3.96	978.94	349.01	186.68	5.13
11-Apr-12	72	19.59	wilder_5420	121	NA	1	1	0	backyard		71.1	6.69	<LOD	14.91	<LOD	71.69	60.99	7.46	<LOD	159.51	<LOD	856.74	<LOD	36.02	<LOD	13.47	11957.98	206.99	<LOD	25.22	<LOD	50.16	<LOD	182.25	<LOD	0	850.46	61.55	<LOD	11.56	46.57	2.91	<LOD	118.52	<LOD	4.9	<LOD	112.96	157.36	4.85	1592.77	291.52	264.6	5.97
11-Apr-12	72	24.11	wilder 5434	119	NA	1	2	10			421	13	<LOD	27	<LOD	65	276	12	<LOD	120	<LOD	377	<LOD	37	<LOD	15	18204	240	46	9	<LOD	51	330	67	<LOD	0	239	38	15	3	37	2	<LOD	102	<LOD	5	<LOD	94	100	3	1876	389	239	5
11-Apr-12	72	19.69	stroh 5444	120	NA	1	1	40			1013.48	24.22	23.93	14.02	68.68	25.42	689.93	23.18	90.01	69.1	ND		52.36	17.86	-0.67	6.06	28000.95	389.9	116.66	13.53	-24.27	19.47	23.41	89.98	ND		504.96	60.43	9.73	3.97	52.47	3.23	70.52	40.28	-0.17	2.31	115.33	37.09	119.56	4.48	2440.17	417.96	255.12	6.06
11-Apr-12	73	53.85																																																				
11-Apr-12	73	22.93	wilder 5434	119	NA	1	2	10			442	14	<LOD	30	<LOD	71	272	13	<LOD	135	<LOD	419	<LOD	42	<LOD	15	20337	280	45	10	<LOD	56	429	76	<LOD	0	388	47	12	4	46	3	<LOD	115	<LOD	5	<LOD	106	109	4	2001	433	241	5
11-Apr-12	73	54.35																																																				
11-Apr-12	74	19.12	wilder_5420	121	NA	1	1	0	backyard		183.28	8.87	<LOD	20.45	<LOD	66.23	120.87	8.85	<LOD	147.95	<LOD	817.35	<LOD	33.88	<LOD	13.7	10403.71	171.86	<LOD	22.93	<LOD	45.44	<LOD	149.52	<LOD	0	570.23	48.12	<LOD	10.69	45.22	2.62	<LOD	107.83	<LOD	4.42	<LOD	102.66	104.39	3.65	1427.79	267.9	352.36	6.24
11-Apr-12	74	22.98	wilder 5434	119	NA	1	2	10			472	15	<LOD	31	<LOD	70	304	14	<LOD	131	<LOD	424	<LOD	41	<LOD	15	22655	303	42	10	<LOD	55	328	79	<LOD	0	471	50	<LOD	10	43	3	<LOD	113	<LOD	5	<LOD	104	119	4	3086	464	243	5
11-Apr-12	74	18.28	stroh 5444	108	NA	1	1	0			247.5	10.5	6.94	6.5	51.66	23.1	143.97	9.81	15.62	49.14	ND		3.1	11.67	-0.87	4.56	12154.77	194.8	23.54	8.16	23.2	17.59	66.97	55.42	ND		648.66	52.93	3.4	3.66	50.38	2.79	44.92	37.75	4.01	1.82	152.44	34.46	109.5	3.87	1775.62	318.57	414.16	7.05
11-Apr-12	75	19.68	wilder_5420	121	NA	1	1	0	backyard		99.33	7.2	<LOD	16.7	<LOD	69.69	93.13	8.31	<LOD	169.63	<LOD	910.63	<LOD	38.81	<LOD	14.35	12809.32	205.94	<LOD	22.7	<LOD	48.24	<LOD	177.76	<LOD	0	407.79	46.4	<LOD	11.07	59.13	3.04	<LOD	115.32	<LOD	4.7	<LOD	110.27	120.78	4.08	1563.03	295.25	328.8	6.3
11-Apr-12	75	23.18	wilder 5434	108	NA	3	1	30			101	8	<LOD	17	<LOD	74	112	9	<LOD	137	<LOD	457	<LOD	44	<LOD	16	19068	275	<LOD	25	<LOD	57	306	75	<LOD	0	481	51	<LOD	11	57	3	<LOD	118	<LOD	5	<LOD	109	101	4	2889	484	311	6
11-Apr-12	75	19.35	stroh 5444	108	NA	1	1	0			226.2	9.84	-0.97	5.99	37.02	21.84	130.14	9.21	155.46	55.04	ND		35.29	13.05	-3.26	4.16	14429.66	214.75	24.61	8.03	-84.39	16.78	52.62	58.59	ND		482.12	48.11	1.08	3.47	35.52	2.4	23.43	35.53	-1.89	1.36	72.14	32.24	82.65	3.36	1497.91	295.72	304.59	5.84
11-Apr-12	76	17.41	wilder_5420	121	NA	1	1	2	backyard		159.53	7.78	<LOD	17.52	<LOD	60.94	106.93	7.82	<LOD	130.48	<LOD	666.26	<LOD	32.96	<LOD	11.41	9592.41	152.09	<LOD	20.54	<LOD	41.87	<LOD	138.44	<LOD	0	427.44	40.27	<LOD	9.57	39.92	2.32	<LOD	98.5	<LOD	4.36	<LOD	93.8	98.6	3.31	1057.59	222.4	244.9	4.82
11-Apr-12	76	44.16																																																				
11-Apr-12	76	18.74	stroh 5444	108	NA	1	1	0			248.33	10.31	12.95	6.48	49.09	22.23	573.29	18.61	27.18	48.28	ND		6.92	11.58	-5.64	4.32	11072.87	180.44	21.14	7.94	-78.67	16.83	110.39	52.92	ND		562.63	49.32	-0.83	3.48	37.23	2.44	51.22	36.27	1.23	1.6	44.19	32.29	77.02	3.27	1620.53	311.17	335.1	6.14
11-Apr-12	77	19.35	wilder_5420	121	NA	1	1	2	backyard		165.08	9.37	<LOD	21.17	<LOD	73.38	92.53	8.77	<LOD	179.71	<LOD	855.12	<LOD	38.66	<LOD	13.18	10474.92	191.08	<LOD	24.5	<LOD	50.76	<LOD	166.99	<LOD	0	556.35	53.04	<LOD	11.73	47.74	2.95	<LOD	120.68	<LOD	4.56	<LOD	114.62	87.55	3.75	1661.3	293.57	346.38	6.83
11-Apr-12	77	23.92	wilder 5434	108	NA	3	1	30			107	8	<LOD	19	<LOD	79	123	10	<LOD	157	<LOD	472	<LOD	41	<LOD	17	17407	279	<LOD	25	<LOD	62	<LOD	225	<LOD	0	413	52	<LOD	12	52	3	<LOD	127	<LOD	5	<LOD	117	91	4	2770	504	232	6
11-Apr-12	77	18.35	stroh 5444	108	NA	1	1	6			155.13	8.15	3.38	5.05	25.46	21.59	104.55	8.26	43.07	45.55	ND		6.3	10.3	3.84	4.55	9613.09	161.83	30.42	8.01	-48.29	16.61	-22.98	46.68	ND		417.85	43.2	4.05	3.48	39.55	2.45	-13.59	35.5	-1.73	1.3	35.22	31.87	89.19	3.41	2060.75	297.36	357.95	6.26
11-Apr-12	78	19.56	wilder_5420	121	NA	1	1	2	backyard		36.94	5.42	<LOD	11.71	<LOD	72.32	62.62	7.49	<LOD	150.33	<LOD	897.61	<LOD	39.27	<LOD	13.1	11266.21	198.18	<LOD	23.64	<LOD	50.24	<LOD	174.3	<LOD	0	216.69	40.18	<LOD	11.2	53.4	3.06	<LOD	118.74	<LOD	4.4	<LOD	114.09	151.71	4.76	1086.01	285.15	280.67	6.13
11-Apr-12	78	23.55	wilder 5434	108	NA	3	1	30			116	8	<LOD	18	<LOD	78	115	10	<LOD	148	<LOD	474	<LOD	44	<LOD	18	18844	288	<LOD	26	<LOD	61	338	79	<LOD	0	539	55	<LOD	12	64	3	<LOD	126	<LOD	5	<LOD	115	93	4	4476	546	351	7
11-Apr-12	78	19.35	stroh 5444	108	NA	1	1	6			160.04	8.34	23.06	5.52	33.8	21.58	119.84	8.79	82.85	48.42	ND		-10.18	9.41	-1.79	4.18	8536.37	151.74	23.5	7.62	-122.47	16.43	36.5	45.45	ND		418.22	43.43	-0.24	3.4	33.76	2.33	33.52	34.91	-0.04	1.41	45.57	31.2	65.76	3.03	836.92	272.97	280.58	5.54
11-Apr-12	79	19.24	wilder_5420	121	NA	1	1	6	backyard		231.01	10.01	<LOD	22.96	<LOD	67.99	122.46	9.04	<LOD	141.54	<LOD	775.54	<LOD	34.37	<LOD	13.44	10550.05	176.18	<LOD	22.86	<LOD	46.13	<LOD	151.3	<LOD	0	642.74	50.76	<LOD	10.74	43.05	2.61	<LOD	110.24	<LOD	4.48	<LOD	104.98	95.26	3.57	1763.39	270.35	328.97	6.1
11-Apr-12	79	22.44	wilder 5434	121	NA	3	1	30			219	9	<LOD	19	<LOD	60	196	10	<LOD	88	<LOD	257	<LOD	25	<LOD	12	6393	114	<LOD	19	<LOD	46	<LOD	108	<LOD	0	224	30	<LOD	9	28	2	<LOD	93	<LOD	4	<LOD	85	62	3	2038	301	162	4
11-Apr-12	79	18.64	stroh 5444	108	NA	1	1	6			256.54	10.4	17.39	6.6	22.02	22	159.85	10.04	4.57	47.66	ND		28.04	11.8	5.21	4.83	12399	193.84	35	8.43	-87.53	16.68	-74.69	52.62	ND		1523.37	72.42	3.78	3.49	45.58	2.62	6.97	35.29	-2.37	1.37	127.08	32.02	82.7	3.35	1505.78	302.12	322.7	5.99
11-Apr-12	80	19.25	wilder_5420	121	NA	1	1	6	backyard		222.11	10.21	<LOD	23.14	<LOD	68.07	130.51	9.65	<LOD	142.75	<LOD	829.78	<LOD	32.55	<LOD	12.09	9791.53	174.48	<LOD	24.73	<LOD	46.78	<LOD	160.51	<LOD	0	368.68	43.63	<LOD	11.06	37.34	2.57	<LOD	107.72	<LOD	4.72	<LOD	105.05	89.53	3.61	1100.18	267.28	292.03	5.95
11-Apr-12	80	22.81	wilder 5434	121	NA	3	1	30			216	9	<LOD	20	<LOD	64	146	9	<LOD	90	<LOD	314	<LOD	28	<LOD	13	6992	128	<LOD	20	<LOD	49	<LOD	122	<LOD	0	196	31	13	3	35	2	<LOD	99	<LOD	4	<LOD	91	63	3	1193	320	191	4
11-Apr-12	80	19.97	stroh 5444	108	NA	1	2	0			86.93	6.88	8.81	4.42	49.94	23.33	108.77	8.99	36.15	52.9	ND		19.79	12.43	-6.53	4.01	13294.2	214.58	22	8.27	-58.37	17.87	-23.59	58.31	ND		581.22	53.18	-2.99	3.59	57.54	3.04	3.94	37.8	-4.24	1.09	154.1	34.51	102.38	3.88	1271.23	326.3	271.32	5.83
11-Apr-12	81	19.29	wilder_5420	121	NA	1	1	6	backyard		101.47	7.1	<LOD	16.39	<LOD	68.66	60.83	6.96	<LOD	165.79	<LOD	862.71	38.61	12.38	<LOD	13.91	9776.46	169.44	<LOD	23.39	<LOD	47.22	<LOD	151.88	<LOD	0	437.19	45.38	<LOD	11.03	50.74	2.8	<LOD	112.49	<LOD	4.38	<LOD	107.4	97.22	3.63	1546.16	282.31	378.76	6.65
11-Apr-12	81	22.72	wilder 5434	121	NA	3	1	30			255	10	<LOD	20	<LOD	61	153	9	<LOD	96	<LOD	285	<LOD	28	<LOD	12	6470	119	<LOD	20	<LOD	47	119	39	<LOD	0	240	32	<LOD	9	27	2	<LOD	94	<LOD	4	<LOD	87	62	3	1271	299	178	4
11-Apr-12	81	18.17	stroh 5444	108	NA	1	2	0			204.62	9.32	8.49	5.83	33.21	22.34	129.93	9.12	79.57	50.23	ND		7.7	10.85	6.46	4.84	11242.22	180.13	26.95	7.97	-41.18	16.79	-13.45	50.76	ND		628.47	50.7	3.97	3.5	47.97	2.66	9.8	35.51	0.19	1.49	88.71	32.26	93.16	3.5	2120.71	321.62	348.25	6.21
11-Apr-12	82	19.28	wilder_5420	121	NA	1	2	0	backyard		84.23	7.37	<LOD	17.59	<LOD	76.76	88.1	8.85	<LOD	165.11	<LOD	959.02	<LOD	40.17	<LOD	12.11	15022.12	248.02	<LOD	27.35	<LOD	52.82	<LOD	199.44	<LOD	0	493.61	53.58	<LOD	12.28	63.2	3.4	<LOD	126.05	<LOD	5.05	<LOD	120.31	169.82	5.21	2714.99	344.86	402.37	7.69
11-Apr-12	82	48.93																																																				
11-Apr-12	82	18.92	stroh 5444	108	NA	1	2	0			248.38	10.23	12.02	6.42	32.61	21.51	134.66	9.3	-50.5	43.21	ND		-5.58	11.17	-1.76	4.29	12566.6	194.6	34.63	8.32	-84.48	16.65	127.97	55.72	ND		748.52	54.05	-4.78	3.44	48.02	2.67	14.17	34.66	-0.42	1.49	117.71	31.68	92.27	3.5	2691.06	328.3	353.4	6.29
11-Apr-12	83	20.53	wilder_5420	121	NA	1	2	0	backyard		150.12	9.1	<LOD	21.08	<LOD	74.99	108.91	9.49	<LOD	184.36	<LOD	997.41	<LOD	43.38	<LOD	15.12	16843.44	264.43	<LOD	27.05	<LOD	51.98	<LOD	210.63	<LOD	0	1637.86	83.57	<LOD	12.41	60.71	3.29	<LOD	123.26	<LOD	4.66	<LOD	118.02	123.05	4.4	2238.41	337.72	452.46	8.05
11-Apr-12	83	24.46	wilder 5434	121	5861	3	2	30			59	6	63	6	98	25	148	13	778	74	<LOD	372	974	39	<LOD	16	14139	219	2484	50	71	19	261	64	<LOD	0	168	41	<LOD	10	25	2	<LOD	119	7	2	<LOD	109	115	4	<LOD	1050	58	3
11-Apr-12	83	19.72	stroh 5444	108	NA	1	2	0			135.21	8.06	6.04	5.06	52.54	22.51	181.3	10.96	122.15	53.75	ND		-14.51	10.88	-0.57	4.46	11675.48	192.33	29.64	8.32	-95.87	17.25	150.35	56.2	ND		324.19	43.25	9.81	3.6	51.68	2.85	15.79	36.34	-1.71	1.32	81.43	33.36	97.05	3.71	1632.62	310.78	242.22	5.38
11-Apr-12	84	19.2	wilder_5420	121	NA	1	2	0	backyard		63.1	6.85	<LOD	15.62	<LOD	78.74	90.01	9.15	<LOD	200.03	<LOD	1041.5	51.67	15.66	<LOD	15.33	15558.27	260.67	<LOD	26.46	<LOD	54.7	<LOD	213.72	<LOD	0	280.91	48.47	<LOD	13.76	63.32	3.51	<LOD	130.03	<LOD	4.89	<LOD	125.56	193.12	5.71	2559.1	359.75	677.88	10.88
11-Apr-12	84	23.96	wilder 5434	121	NA	3	2	30			208	11	<LOD	23	<LOD	74	207	12	<LOD	124	<LOD	388	<LOD	36	<LOD	14	9201	177	<LOD	26	<LOD	58	<LOD	165	<LOD	0	237	40	<LOD	11	42	3	<LOD	116	<LOD	5	<LOD	108	75	4	2122	420	210	5
11-Apr-12	84	19.42	stroh 5444	108	NA	1	2	6			133.93	8.39	20.23	5.54	39.68	24.19	123.71	9.66	54.82	56.63	ND		34.32	14.42	11.23	5.57	15719.94	242.9	27.67	8.88	33.69	18.55	91.25	65.6	ND		546.07	53.83	4.18	3.78	74.63	3.44	-55.44	39.61	2.09	1.71	79.87	36	125.76	4.32	2713.64	385.57	342.73	6.67
11-Apr-12	85	21.32	wilder_5420	121	NA	1	2	4	backyard		140.63	9.08	<LOD	20.61	<LOD	76.96	144.95	10.98	<LOD	180.05	<LOD	924.79	<LOD	42.42	<LOD	14.47	14482.85	244.72	<LOD	27.89	<LOD	53.53	<LOD	198.72	<LOD	0	440	52.37	<LOD	12.14	54.59	3.24	<LOD	125.83	<LOD	4.44	<LOD	121.56	155.33	5.04	1270.74	301.68	279.12	6.4
11-Apr-12	85	23.55	wilder 5434	121	NA	3	2	30			310	13	<LOD	26	<LOD	74	284	14	<LOD	136	<LOD	412	<LOD	37	<LOD	15	11882	205	<LOD	27	<LOD	58	200	61	<LOD	0	191	39	12	4	47	3	<LOD	118	<LOD	5	<LOD	110	87	4	2415	443	238	5
11-Apr-12	85	19.87	stroh 5444	123	NA	3	1	30			124.24	7.67	6.62	4.83	1.88	22.02	152.74	10.01	72.8	49.59	ND		1.68	10.92	-7.55	3.77	10602.04	178.19	31.2	8.28	-112.5	16.92	65.65	51.87	ND		208.06	37.69	2.35	3.5	48.93	2.74	11.24	35.15	-0.66	1.36	75.06	31.93	86.36	3.48	2018.65	317.06	266.49	5.55
11-Apr-12	86	19.82	wilder_5420	121	NA	1	2	4	backyard		102.44	8.19	<LOD	18.8	<LOD	79.58	87.6	9.15	<LOD	207.08	<LOD	1044.86	<LOD	47.35	<LOD	14.65	15150.72	258.18	<LOD	28.25	94.13	18.63	<LOD	218.9	<LOD	0	444.53	54.73	<LOD	12.66	58.18	3.41	<LOD	132.15	<LOD	4.49	<LOD	127.44	185.05	5.63	2018.37	348.36	396.47	7.9
11-Apr-12	86	22.93	wilder 5434	121	NA	3	2	30			324	12	<LOD	25	<LOD	67	416	15	<LOD	113	<LOD	349	<LOD	37	<LOD	15	12636	193	26	8	<LOD	52	256	58	<LOD	0	282	38	10	3	55	3	<LOD	106	<LOD	5	<LOD	98	90	3	3924	426	255	5
11-Apr-12	86	0.76	stroh 5444	123	NA	3	1	30			172.99	52.59	7.56	32.83	56.97	139.25	184.27	63.55	-14.9	260.11	ND		-49.16	48.05	10.67	31.28	10930.54	1067.04	-60.27	3.29	79.85	104.97	61.39	308.83	ND		403.47	261.37	68.15	24.58	35.82	14.42	-66.35	221.26	9.52	12.07	-36.21	209.9	132.96	24.79	3419.39	2020.89	327.18	36.48
11-Apr-12	87	19.73	wilder_5420	121	NA	1	2	4	backyard		129.21	8.69	21.83	6.97	<LOD	74.44	134.28	10.54	<LOD	183.66	<LOD	908.44	<LOD	43.15	<LOD	15.73	15995.58	259.48	<LOD	27.75	<LOD	52.56	<LOD	212.36	<LOD	0	674.52	60.06	<LOD	11.66	55.47	3.23	<LOD	121.56	<LOD	4.28	<LOD	118.38	163.46	5.12	1086.44	292.68	223.96	5.73
11-Apr-12	87	21.77	wilder 5434	121	NA	3	3	30			286	10	<LOD	21	62	20	270	11	<LOD	100	<LOD	302	<LOD	31	<LOD	13	10502	153	24	7	<LOD	47	217	48	<LOD	0	256	33	15	3	41	2	<LOD	96	<LOD	4	<LOD	87	83	3	2286	336	235	4
11-Apr-12	87	19.81	stroh 5444	123	NA	3	1	30			140.66	8.47	10.73	5.4	69.28	23.53	145.87	10.27	75.36	54.24	ND		-0.48	12.08	7.01	5.22	12389.11	205.62	24.86	8.52	-11.55	18.2	100.46	58.68	ND		266.21	42.78	3.15	3.76	59.78	3.11	-42.89	38.46	0.31	1.57	112.97	35.02	113.31	4.09	2919.89	373.34	358.55	6.79
11-Apr-12	88	19.32	wilder_5420	121	NA	2			backyard		202.95	9.92	<LOD	22.95	<LOD	69.52	138.05	10	<LOD	142.43	<LOD	712.82	<LOD	32.08	<LOD	12.97	7482.69	149.79	<LOD	24.46	<LOD	48.02	<LOD	139.31	<LOD	0	301.01	40.46	<LOD	10.92	34.85	2.54	<LOD	112.7	<LOD	5.1	<LOD	106.83	71.45	3.33	1536.42	258.75	264.14	5.71
11-Apr-12	88	22.82	wilder 5434	121	NA	3	3	30			224	9	<LOD	21	<LOD	63	255	12	<LOD	114	<LOD	299	<LOD	27	<LOD	11	8676	145	<LOD	22	<LOD	49	178	46	<LOD	0	201	33	<LOD	9	32	2	<LOD	97	<LOD	4	<LOD	90	71	3	2513	349	182	4
11-Apr-12	88	19.33	stroh 5444	123	NA	3	1	30			110.04	7.31	17.32	4.83	60.11	22.37	133.69	9.43	1.63	45.47	ND		5.59	11.11	3.84	4.7	10281.34	174.03	24.34	7.98	-64.21	17.09	64.92	51.01	ND		197.49	36.79	-0.88	3.49	49.61	2.75	-8.93	36.49	2.05	1.56	136.28	33.17	99.47	3.68	2653.15	335.68	296.19	5.85
11-Apr-12	89	19.05	wilder_5420	121	NA	2			backyard		246.5	9.84	<LOD	22.97	<LOD	62.9	261.92	12.13	<LOD	126.7	<LOD	739.31	<LOD	32.17	<LOD	12.02	9345.36	155.79	<LOD	22.23	<LOD	43.07	<LOD	144.98	<LOD	0	382.05	40.3	<LOD	9.86	33.2	2.26	<LOD	100.19	<LOD	4.04	<LOD	95.11	69.94	2.99	<LOD	683.98	230.21	4.85
11-Apr-12	89	21.82	wilder 5434	121	NA	3	3	30			231	9	<LOD	18	<LOD	57	248	10	<LOD	84	<LOD	272	<LOD	28	<LOD	12	7938	125	<LOD	19	<LOD	44	151	40	<LOD	0	240	30	<LOD	8	34	2	<LOD	90	<LOD	4	<LOD	82	73	3	2096	307	199	4
11-Apr-12	89	19.24	stroh 5444	123	NA	3	2	30			228.12	10.34	6.71	6.42	19.01	23.36	221.09	12.21	-51.65	48.37	ND		24.6	13.23	6.27	5.21	12713	205.98	37	9.1	6.72	18.02	92.88	58.43	ND		335.87	44.63	6.73	3.77	61.81	3.12	-25.91	37.98	-2.74	1.41	68.95	34.44	114.95	4.06	2192.63	362.93	386.73	6.98
11-Apr-12	90	20.7	wilder_5420	123	NA	1	2	0	backyard		240.58	10.78	<LOD	24.75	<LOD	70.84	288.58	14.04	<LOD	168.9	<LOD	874.01	39.81	13.17	<LOD	13.75	11611.88	197.75	<LOD	26.1	<LOD	48.69	<LOD	170.53	<LOD	0	582.06	52.51	<LOD	11.3	49.29	2.91	<LOD	113.52	<LOD	4.83	<LOD	109.86	99.42	3.84	1681.33	293.62	336.64	6.53
11-Apr-12	90	23.02	wilder 5434	121	NA	3	4	30			352	10	<LOD	21	<LOD	53	223	9	<LOD	86	<LOD	246	<LOD	24	<LOD	11	7147	111	<LOD	18	<LOD	42	154	36	<LOD	0	176	26	<LOD	8	30	2	<LOD	83	<LOD	4	<LOD	77	62	2	1614	271	173	3
11-Apr-12	90	20.36	stroh 5444	123	NA	3	2	30			214.01	10.35	5.62	6.42	-4.1	23.44	228.11	12.73	85.7	55.65	ND		8.58	12.73	2.75	5.05	12925.51	214.81	23.43	8.62	-39.6	18.33	87.71	60.48	ND		429.07	49.39	6.98	3.83	56.61	3.09	-12.05	38.03	-0.11	1.6	58.81	34.76	104.98	4.02	2780.09	371.87	328.02	6.56
11-Apr-12	91	19.16	wilder_5420	123	NA	1	2	0	backyard		275.79	11.88	<LOD	27.2	<LOD	73.32	421.18	17.47	<LOD	189.23	<LOD	966.3	<LOD	41.73	<LOD	16.53	13601.99	226.91	39.2	9.76	<LOD	51.24	<LOD	195.04	<LOD	0	1072.06	69.02	<LOD	11.89	54.8	3.14	<LOD	118.75	<LOD	4.79	<LOD	113.68	118.87	4.3	1917.05	321.95	381.11	7.24
11-Apr-12	91	22.49	wilder 5434	121	NA	3	4	30			288	10	<LOD	22	<LOD	61	193	10	<LOD	94	<LOD	300	<LOD	27	<LOD	11	7043	124	<LOD	20	<LOD	47	156	41	<LOD	0	252	32	<LOD	9	32	2	<LOD	97	<LOD	4	<LOD	89	65	3	2037	331	199	4
11-Apr-12	91	19.3	stroh 5444	123	NA	3	2	30			224.81	11.04	6.65	6.86	16.2	24.87	249.2	13.84	79.13	57.95	ND		-6.31	12.38	-1.39	4.99	12567.59	219.84	21.82	8.89	-22.19	19.23	79.02	62.17	ND		271.48	45.66	-0.5	3.94	57.5	3.25	-7.91	39.71	-1.1	1.62	110.69	36.33	112.47	4.32	2283.84	376.32	344.53	7.04
11-Apr-12	92	53.89																																																				
11-Apr-12	92	22.84	wilder 5434	121	NA	3	4	30			272	10	<LOD	22	<LOD	62	210	11	<LOD	89	<LOD	303	<LOD	28	<LOD	12	7895	136	<LOD	20	<LOD	48	<LOD	129	<LOD	0	241	33	<LOD	9	35	2	<LOD	97	<LOD	4	<LOD	90	60	3	2157	340	188	4
11-Apr-12	92	54.39																																																				
11-Apr-12	93	20.71	wilder_5420		2586						437.17	16.23	<LOD	35.09	<LOD	81.63	354.37	17.48	407.71	95.47	<LOD	1386.61	105.1	23.39	<LOD	20.08	50351.27	652.48	80.55	12.88	<LOD	57.01	<LOD	392.56	<LOD	0	710.29	77.1	<LOD	12.59	49.78	3.32	<LOD	133.43	<LOD	6.32	<LOD	127.97	83.31	4.03	4300.29	477.99	254.14	6.34
11-Apr-12	93	23.07	wilder 5434	123	NA	3	3	30			123	8	<LOD	17	<LOD	71	147	10	<LOD	108	<LOD	364	<LOD	35	<LOD	13	8747	158	<LOD	25	<LOD	55	209	51	<LOD	0	246	37	<LOD	10	41	2	<LOD	114	<LOD	4	<LOD	105	81	3	3264	424	283	6
11-Apr-12	93	20.26	stroh 5444		NIST 2586			3			408.03	15.51	17.27	9.57	-20.28	26.32	313.45	16.32	326.43	91.44	ND		11.47	20.79	-0.34	5.61	45295.05	597.81	75.6	12.43	-43.19	20.37	366.33	121.79	ND		603.64	72.51	5.59	4.08	47.43	3.19	85.76	42.99	-1.88	1.84	110.83	39.54	74.42	3.82	4978.87	553.13	217.17	5.82
11-Apr-12	94	18.47	wilder_5420	109	NA	1	1	0			245.69	10.67	<LOD	24.37	<LOD	69.28	179.62	11.1	<LOD	144.48	<LOD	840.48	<LOD	33.65	<LOD	13.74	11558.85	193.54	36.1	8.94	<LOD	47.77	<LOD	173.5	<LOD	0	595.22	51.59	<LOD	11.32	50.28	2.87	<LOD	111.71	<LOD	4.32	<LOD	107.07	97.45	3.74	1320.38	275.61	376.7	6.81
11-Apr-12	94	22.69	wilder 5434	123	NA	3	3	30			130	8	<LOD	17	<LOD	67	170	10	<LOD	114	<LOD	355	<LOD	32	<LOD	12	9583	159	30	8	<LOD	52	220	50	<LOD	0	276	37	<LOD	10	42	2	<LOD	107	<LOD	4	<LOD	99	85	3	2042	376	255	5

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

In-Situ XRF Data

Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment		Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
11-Apr-12	94	18.52	stroh 5444	109	NA	3	4	30			400.63	13.07	-3.89	7.83	69.07	22.55	304.4	13.63	84.13	50.22	ND		2.98	11.3	5.08	5.04	11453.37	184.71	43.02	8.85	-43.17	17.04	90.04	53.47	ND		249.3	39.37	-1.5	3.43	51.02	2.78	-29.97	36.35	0.36	1.65	14.89	32.98	97.7	3.63	2602.71	328.9	285.9	5.68
11-Apr-12	95	18.79	wilder_5420	109	NA	1	1	0			244.26	10.07	<LOD	22.93	<LOD	65.64	169.35	10.22	<LOD	143.11	<LOD	765.85	<LOD	31.84	<LOD	14.36	11016.19	177.44	27.93	8.12	<LOD	45.18	<LOD	157.3	<LOD	0	458.27	44.62	<LOD	10.61	43.41	2.57	<LOD	106.03	<LOD	4.09	<LOD	101.78	86.5	3.36	2001.6	271.94	361.21	6.28
11-Apr-12	95	23.01	wilder 5434	123	NA	3	3	30			114	8	<LOD	16	<LOD	70	125	9	<LOD	130	<LOD	364	<LOD	37	<LOD	14	10770	180	33	9	<LOD	55	<LOD	156	<LOD	0	586	50	<LOD	11	37	2	<LOD	114	<LOD	5	<LOD	106	118	4	3334	426	281	5
11-Apr-12	95	18.74	stroh 5444	109	NA	3	4	30			223.59	9.47	0.07	5.79	-11.98	20.98	199.3	10.74	56.68	44.96	ND		1.74	9.93	2.2	4.42	8173.48	143.89	32.82	7.9	-120.49	16.03	74.74	44.12	ND		116.93	31.09	1.01	3.28	38.72	2.39	53	33.63	-0.67	1.37	42.67	30.56	77.64	3.16	1550.23	283.67	238.33	5
11-Apr-12	96	19.72	wilder_5420	109	NA	1	1	0			290.63	11.39	<LOD	25.49	<LOD	68.81	186.12	11.08	<LOD	143.03	<LOD	864.78	<LOD	37.9	<LOD	14.17	12313.83	198.44	<LOD	24.61	<LOD	46.98	<LOD	172.27	<LOD	0	438.23	46.25	<LOD	11.22	40.63	2.62	<LOD	110.96	<LOD	4.49	<LOD	106.47	90.95	3.57	1493.16	283.33	354.78	6.48
11-Apr-12	96	22.98	wilder 5434	123	NA	1	1	0			269	11	<LOD	23	<LOD	69	320	14	<LOD	120	<LOD	379	<LOD	33	<LOD	14	10756	177	<LOD	25	<LOD	53	<LOD	160	<LOD	0	345	41	<LOD	10	36	2	<LOD	109	<LOD	5	<LOD	101	96	4	3018	423	288	5
11-Apr-12	96	18.59	stroh 5444	109	NA	3	4	30			220.92	9.11	6.08	5.65	12.19	20.04	134.28	8.69	32.36	40.81	ND		-1.07	9.37	-8.19	3.43	6757.25	124.03	26.84	7.27	-149.97	15.33	136.47	40.32	ND		124.41	29.37	3.05	3.14	34.57	2.22	2.9	32.13	0.83	1.39	28.94	29.28	70.98	2.94	1263.78	257.12	194.91	4.4
11-Apr-12	97	18.81	wilder_5420	109	NA	1	1	4			280.84	11.15	<LOD	24.93	<LOD	66.71	165.22	10.47	<LOD	145.22	<LOD	730.02	<LOD	29.26	<LOD	10.1	9347.76	166.07	<LOD	24.27	<LOD	46.18	<LOD	152.07	<LOD	0	378.27	42.92	<LOD	10.63	36.11	2.49	<LOD	107.03	<LOD	4.17	<LOD	102.87	75.79	3.3	1161.91	247.64	304.07	5.94
11-Apr-12	97	22.85	wilder 5434	123	NA	1	1	0			204	9	<LOD	20	<LOD	66	230	11	<LOD	118	<LOD	342	<LOD	31	<LOD	13	8954	153	<LOD	24	<LOD	51	164	48	<LOD	0	359	40	<LOD	10	37	2	<LOD	106	<LOD	4	<LOD	96	86	3	1388	349	264	5
11-Apr-12	97	18.47	stroh 5444	109	NA	3	3	30			337.11	12.17	1.3	7.38	44.14	22.82	373.05	15.26	79.73	53.28	ND		13.71	13.14	0.11	4.78	15239.52	226.52	46.87	9.27	-36.4	17.33	177.32	62.85	ND		318.23	43.99	0.31	3.53	60.77	3.02	7.99	37.43	1.56	1.72	-22.03	33.51	104.75	3.79	3059.08	357	317.34	6.09
11-Apr-12	98	19.18	wilder_5420	109	NA	1	1	4			299.99	11.73	<LOD	25.6	<LOD	67.34	204.25	11.74	<LOD	158.45	<LOD	851.71	<LOD	32.75	<LOD	14.53	10599.35	182.9	27.48	8.58	<LOD	46.61	<LOD	160.61	<LOD	0	377.93	44.5	<LOD	11.02	40.09	2.64	<LOD	107.29	<LOD	4.74	<LOD	104.16	75.86	3.36	1122.97	272.26	280.77	5.81
11-Apr-12	98	24.28	wilder 5434	123	NA	1	1	0			270	11	<LOD	23	<LOD	67	403	15	<LOD	126	<LOD	370	<LOD	35	<LOD	13	11583	180	<LOD	23	<LOD	52	236	55	<LOD	0	755	52	<LOD	10	35	2	<LOD	106	<LOD	4	<LOD	97	101	4	2642	403	273	5
11-Apr-12	98	3.82	stroh 5444	109	NA	3	3	30			211.44	20.16	26.74	13.26	8.54	47.15	247.68	26.04	185.45	113.22	ND		14.05	24.64	-6.06	8.55	9633.58	349.34	38.67	18.08	-43.72	35.83	148.4	106.48	ND		380.23	91.57	3.81	7.26	36.92	5.15	-81.3	76.53	-4	2.5	-22.48	69.73	91.06	7.4	1919.67	627.37	250.99	11.23
11-Apr-12	99	19.68	wilder_5420	109	NA	1	1	4			360.11	12.19	<LOD	27.59	<LOD	64.5	238.53	11.97	<LOD	127.21	<LOD	751.47	<LOD	33.89	<LOD	12.31	12188.05	189.89	33.13	8.39	<LOD	44.46	<LOD	167.63	<LOD	0	468.94	45.11	<LOD	10.61	40.6	2.52	<LOD	101.11	<LOD	4.87	<LOD	97.74	81.93	3.29	1727.73	262.97	318.44	5.89
11-Apr-12	99	24.4	wilder 5434	123	NA	1	2	0			229	10	<LOD	20	<LOD	67	122	9	<LOD	121	<LOD	347	<LOD	30	<LOD	13	10384	168	<LOD	24	<LOD	52	<LOD	149	<LOD	0	477	44	<LOD	10	45	2	<LOD	108	<LOD	4	<LOD	99	97	3	2986	399	316	6
11-Apr-12	99	19.09	stroh 5444	109	NA	3	3	30			285.41	11.81	14.49	7.4	56.92	24.04	344.37	15.46	80.31	58.62	ND		-3.95	13.78	5.96	5.47	19600.21	284.31	47.93	9.9	22	18.58	149.65	73.67	ND		223.11	44.81	-1.09	3.79	65.89	3.29	49.32	39.64	-1.4	1.62	115.67	35.84	135.95	4.5	3227.24	384.67	380.46	7.1
11-Apr-12	100	18.31	wilder_5420	109	NA	1	1	6			410.79	13.39	<LOD	30.08	<LOD	66.38	267.91	13.03	<LOD	144.12	<LOD	779.89	<LOD	32.41	<LOD	12.5	11880.01	192.31	43.88	9.07	<LOD	45.8	<LOD	170.31	<LOD	0	426.78	45.28	<LOD	10.87	36.05	2.49	<LOD	105.61	<LOD	4.55	<LOD	102.25	75.42	3.28	1425.66	264.28	292.73	5.8
11-Apr-12	100	48.87																																																				
11-Apr-12	100	18.03	stroh 5444	111	NA	1	2	0			264.11	10.09	16.22	6.38	14.48	20.89	224.14	11.18	74.21	46.27	ND		-3.53	9.78	-1.09	4.22	9232.54	153.26	29.22	7.66	-110.98	15.84	70.09	45.87	ND		574.22	46.61	4.96	3.3	40.07	2.39	58.99	33.56	-2.98	1.24	49.05	30.38	81.37	3.18	1390.73	275.51	269.23	5.23
11-Apr-12	101	19.93	wilder_5420	109	NA	1	1	6			241.17	9.84	<LOD	22.24	<LOD	61.68	163.23	9.87	<LOD	127.1	<LOD	606.94	<LOD	28.8	<LOD	10.68	7723.22	139.99	28.39	7.98	<LOD	43.04	<LOD	129.42	<LOD	0	333.43	38.19	<LOD	10.2	30.16	2.21	<LOD	98.67	<LOD	4.56	<LOD	93.95	75.72	3.12	1080.47	216.21	230.63	4.91
11-Apr-12	101	23.38	wilder 5434	109	2586	3	1	30			405	16	<LOD	33	<LOD	83	291	16	<LOD	224	<LOD	623	<LOD	70	<LOD	18	46346	612	45	12	<LOD	65	1086	133	<LOD	0	651	72	15	4	46	3	<LOD	131	<LOD	6	<LOD	122	81	4	5552	691	219	6
11-Apr-12	101	17.89	stroh 5444	111	NA	1	2	0			227.84	9.03	0.07	5.52	15.02	19.56	148.18	8.86	41.21	38.79	ND		-14.39	7.39	-0.78	3.92	4296.79	93.56	10.72	6.28	-153.61	14.96	43.8	31.29	ND		195.75	30.49	1.29	3.09	37.09	2.22	11.2	31.36	-0.81	1.27	9.86	28.44	67.22	2.82	51.99	196.54	233.4	4.67
11-Apr-12	102	17.15	wilder_5420	109	NA	1	1	6			268.15	10.49	<LOD	24.33	<LOD	65.44	169.42	10.19	<LOD	145.09	<LOD	743.03	<LOD	32.16	<LOD	12.85	10440.48	170.83	34.19	8.34	<LOD	44.81	<LOD	154.97	<LOD	0	458.58	44.34	<LOD	10.63	41.05	2.5	<LOD	104.53	<LOD	4.45	<LOD	100.63	80.03	3.24	1546.43	255.88	336.85	6.02
11-Apr-12	102	22.27	wilder 5434	109	2586	3	1	30			295	11	<LOD	23	<LOD	64	223	11	<LOD	114	<LOD	341	<LOD	32	<LOD	14	11200	169	<LOD	20	<LOD	50	157	51	<LOD	0	204	33	<LOD	9	43	2	<LOD	103	<LOD	5	<LOD	94	98	3	2843	383	210	4
11-Apr-12	102	18.42	stroh 5444	111	NA	1	2	0			259.56	10.39	17.91	6.59	31.39	21.75	174.51	10.33	-14.6	45.3	ND		32.78	12.43	-6.22	3.98	12193.91	189.56	17.6	7.61	-43.91	16.74	45.51	53.49	ND		583.16	49.28	2.43	3.45	45.42	2.6	-14.35	35.03	0.71	1.56	51.94	31.8	94.01	3.51	2829.39	338.65	324.82	5.97
11-Apr-12	103	18.89	wilder_5420	124	NA	4			play area		1116.3	24.82	<LOD	50.79	<LOD	73.24	735.62	23.4	<LOD	159.54	<LOD	881.05	52.93	15.92	<LOD	17.7	17809.27	271.79	202.84	15.71	<LOD	50.59	<LOD	220.48	<LOD	0	449.36	51.86	<LOD	11.46	35.98	2.77	<LOD	118.03	<LOD	6.65	<LOD	112.49	125.4	4.42	1896.67	307.01	202.87	5.31
11-Apr-12	103	24.67	wilder 5434	109	2586	3	1	30			223	10	<LOD	21	<LOD	66	168	10	<LOD	113	<LOD	342	<LOD	34	<LOD	13	9701	163	<LOD	23	<LOD	52	221	51	<LOD	0	233	36	<LOD	10	38	2	<LOD	105	<LOD	5	<LOD	97	93	3	2070	371	212	5
11-Apr-12	103	19.64	stroh 5444	111	NA	1	2	6			131.22	8.09	8.53	5.11	41.32	22.81	132.43	9.63	86.15	51.32	ND		-5.35	11.43	-5.45	4.13	10458.21	180.88	13.31	7.74	-29.12	17.73	137.81	54.07	ND		507.77	49.23	1.26	3.71	62.58	3.11	54.18	37.52	2.98	1.7	29.11	33.63	115.86	4.05	2429.64	326.43	395.67	7.04
11-Apr-12	104	18.94	wilder_5420	124	NA	4			play area		347.73	12.46	<LOD	28.26	<LOD	66.81	318.89	14.37	<LOD	168.19	<LOD	768.34	<LOD	35.91	<LOD	12.7	9770.14	171.83	79.54	10.69	<LOD	46.36	<LOD	157.31	<LOD	0	314.32	41.65	<LOD	10.31	20.78	2.11	<LOD	107.31	<LOD	4.25	<LOD	103.61	79.49	3.38	829.97	246.61	152.87	4.38
11-Apr-12	104	22.76	wilder 5434	109	2586	3	1	30			224	10	<LOD	21	<LOD	65	165	10	<LOD	106	<LOD	327	<LOD	31	<LOD	12	9053	152	<LOD	22	<LOD	51	<LOD	142	<LOD	0	274	36	<LOD	10	38	2	<LOD	103	<LOD	5	<LOD	95	83	3	1889	352	226	5
11-Apr-12	104	18.96	stroh 5444	216	NA	1	1	0			147.4	8.26	3.61	5.13	7.07	22.68	134.53	9.49	58.18	49.7	ND		14.1	11.14	1.12	4.55	9964.16	171.3	17.97	7.77	-47.83	17.24	-31.72	48.98	ND		422.75	45.3	-2.42	3.55	48.17	2.73	28.14	37.1	-0.74	1.42	75.99	33.27	86.14	3.48	2087.13	329.05	361	6.51
11-Apr-12	105	18.98	wilder_5420	124	NA	4			play area		878.04	21.74	<LOD	46.51	<LOD	73.64	653.34	22.13	<LOD	170.68	<LOD	941.26	<LOD	45.68	<LOD	17.36	18933.61	285.03	255.57	17.19	<LOD	50.69	<LOD	232.85	<LOD	0	757.23	62.02	<LOD	11.57	32.63	2.67	<LOD	119.34	<LOD	6.77	<LOD	114.74	117.18	4.3	1628.71	312.11	216.55	5.47
11-Apr-12	105	22.68	wilder 5434	109	2586	3	2	30			285	10	<LOD	22	<LOD	62	301	12	<LOD	98	<LOD	337	<LOD	31	<LOD	13	8875	145	28	8	<LOD	49	147	45	<LOD	0	264	34	<LOD	9	32	2	<LOD	98	<LOD	4	<LOD	90	75	3	1390	339	209	4
11-Apr-12	105	18.89	stroh 5444	216	NA	1	1	0			202.75	9.28	22.99	6.05	-1.3	21.89	190.5	10.78	23.28	45.08	ND		19.67	11.22	1.76	4.54	8994.03	156.72	19.06	7.59	-86.84	16.6	42.14	46.69	ND		446.97	44.3	0.31	3.42	38.46	2.45	-18.78	34.76	-1.25	1.38	107	31.79	79.05	3.27	2130.39	310.14	299.03	5.73
11-Apr-12	106	20.26	wilder_5420	124	NA	4			play area		246.52	10.32	<LOD	22.85	<LOD	65.44	228.44	11.94	<LOD	135.48	<LOD	794.87	<LOD	32.33	<LOD	13.35	9554.51	165.45	33.6	8.58	<LOD	45.48	<LOD	150.04	<LOD	0	259.19	37.97	<LOD	10.3	29.56	2.28	<LOD	105.42	<LOD	4.59	<LOD	100.53	67.08	3.09	<LOD	741.29	177.85	4.53
11-Apr-12	106	21.62	wilder 5434	109	2586	3	2	30			234	9	<LOD	19	<LOD	57	207	9	<LOD	96	<LOD	296	<LOD	28	<LOD	13	8378	128	<LOD	19	<LOD	44	173	41	<LOD	0	189	29	<LOD	8	31	2	<LOD	89	<LOD	4	<LOD	82	70	3	1643	309	202	4
11-Apr-12	106	19.12	stroh 5444	216	NA	1	1	0			161.22	8.29	6.13	5.19	1.83	21.38	117.41	8.64	53.31	45.77	ND		1.81	10.06	-4.97	3.87	8102.58	145.79	15.29	7.21	-106.01	16.39	60.19	44.5	ND		281.15	38.09	-5.47	3.33	42.56	2.52	28.86	34.9	-2.76	1.19	-24.36	31.25	66.38	3.02	1738.82	296.58	287.96	5.58
11-Apr-12	107	20.92	wilder_5420	124	NA	4			play area		1153.2	25.17	<LOD	52.19	<LOD	71.66	659.62	22.06	<LOD	185.83	<LOD	853.68	<LOD	42.74	<LOD	18.99	17267.72	264.75	277.09	17.61	<LOD	49.83	<LOD	215.97	<LOD	0	453.39	52.05	<LOD	11.29	31.25	2.63	<LOD	115.23	<LOD	6.7	<LOD	111.35	108.7	4.13	1729.2	296.54	186.27	5.08
11-Apr-12	107	23.1	wilder 5434	109	2586	3	2	30			263	11	<LOD	23	<LOD	67	213	11	<LOD	103	<LOD	348	<LOD	30	<LOD	13	9528	162	<LOD	23	<LOD	52	239	51	<LOD	0	183	33	<LOD	10	40	2	<LOD	106	<LOD	4	<LOD	98	78	3	2987	401	240	5
11-Apr-12	107	19.41	stroh 5444	216	NA	1	1	2			299.54	10.69	15.01	6.69	0.96	20.82	217.26	10.99	-15.49	42.42	ND		6.54	10.65	-7.59	3.74	10741.52	167.75	52.33	8.64	-98.22	15.84	95.76	49.18	ND		481.12	43.94	5.53	3.28	36.47	2.3	23.48	33.72	1.02	1.52	-21.4	30.47	76.66	3.09	1558.64	284.56	262.76	5.13
11-Apr-12	108	19.72	wilder_5420	124	NA	4			play area		332.45	11.94	<LOD	25.76	<LOD	66.98	214.44	11.78	<LOD	145.57	<LOD	769.99	<LOD	31.96	<LOD	15.33	7984.34	148.41	136.1	12.32	<LOD	46.41	<LOD	141.23	<LOD	0	200.4	35.39	<LOD	10.44	27.15	2.24	<LOD	109.83	<LOD	4.56	<LOD	106.8	82.82	3.37	1002.43	249.39	220.83	5.01
11-Apr-12	108	23.66	wilder 5434	111	NA	1	1	0			281	10	<LOD	21	<LOD	60	226	10	<LOD	93	<LOD	307	<LOD	31	<LOD	13	11887	168	33	8	<LOD	47	155	50	<LOD	0	512	41	<LOD	9	37	2	<LOD	94	<LOD	4	<LOD	87	83	3	2185	339	229	4
11-Apr-12	108	18.23	stroh 5444	216	NA	1	1	2			201.66	9.4	1.92	5.78	67.6	22.57	162.33	10.21	-44.74	44.94	ND		23.07	11.92	1.66	4.63	10557.55	175.67	26.31	8.19	-2.04	17.26	21.01	50.67	ND		465.74	46.25	23.52	3.77	52.01	2.79	10.85	36.9	-0.71	1.47	22.45	33.41	90.77	3.52	1897.98	329.71	386.47	6.69
11-Apr-12	109	19.93	wilder_5420	124	NA	4			play area		420.13	15.05	<LOD	32.68	<LOD	75.01	270.84	14.59	<LOD	164.59	<LOD	981.84	<LOD	42.26	<LOD	15.56	13159.3	228.29	76.24	11.64	<LOD	52.85	<LOD	200.32	<LOD	0	374.71	49.14	<LOD	11.81	37.15	2.81	<LOD	120.67	<LOD	5.71	<LOD	117.05	110.63	4.29	1301.95	312.71	288.06	6.42
11-Apr-12	109	23.76	wilder 5434	111	NA	1	1	2			76	7	<LOD	15	<LOD	78	66	8	<LOD	138	<LOD	411	<LOD	41	<LOD	17	11821	210	<LOD	26	<LOD	60	<LOD	187	<LOD	0	501	52	12	4	52	3	<LOD	124	<LOD	5	<LOD	114	95	4	3720	486	318	6
11-Apr-12	109	19.02	stroh 5444	216	NA	1	1	2			212.17	9.5	5.9	5.9	32.68	21.9	161.33	10.05	122.33	50.52	ND		3.16	10.39	-6.13	3.91	9520.74	162.87	39.11	8.46	-82.77	16.67	27.07	47.76	ND		434.09	44.5	2.23	3.43	39.31	2.47	-27.67	35.47	-0.74	1.41	-16.03	32.11	74.43	3.2	1491.62	287.76	278.82	5.54
11-Apr-12	110	18.99	wilder_5420	124	NA	2					237.15	10.87	<LOD	24.78	<LOD	72.17	202.42	12.13	<LOD	170.77	<LOD	929.13	<LOD	35.01	<LOD	15.97	11539.17	199.88	45.68	9.74	<LOD	50.25	<LOD	175.93	<LOD	0	465.37	49.62	<LOD	11.7	46.93	2.9	<LOD	118.86	<LOD	4.85	<LOD	112.96	111.24	4.1	2080.56	316.28	373.97	7.03
11-Apr-12	110	23.72	wilder 5434	111	NA	1	1	2			258	12	<LOD	24	<LOD	76	164	11	<LOD	129	<LOD	407	<LOD	39	<LOD	14	10666	193	<LOD	27	<LOD	59	345	62	<LOD	0	483	50	<LOD	11	43	3	<LOD	121	<LOD	5	<LOD	111	90	4	2249	436	307	6
11-Apr-12	110	21.41	stroh 5444	124	NA	3	1	30			187.83	10.4	1.7	6.38	-19.64	25.35	194.7	12.6	83.81	59.91	ND		27.93	13.85	1.66	5.24	15111.7	254.61	24.19	9.26	-98.44	19.3	-116.65	65.93	ND		500.87	55.75	-0.73	3.92	52.82	3.21	88.28	41.31	0.72	1.73	46.54	37.47	121.36	4.56	2845.63	395.2	245.06	6.06
11-Apr-12	111	17.71	wilder_5420	124	NA	2					200.99	9.14	<LOD	20.82	<LOD	64.02	120.67	8.75	<LOD	145.49	<LOD	730.95	<LOD	31.02	<LOD	11	9794.36	163.88	<LOD	22.26	<LOD	44.22	<LOD	147.95	<LOD	0	526.82	46.08	<LOD	9.91	36.78	2.39	<LOD	103.59	<LOD	4.18	<LOD	99.56	67.94	3.02	810.97	234.24	243.46	5.08
11-Apr-12	111	23.5	embree 5434	216	NA	3	1	30			312	12	28	9	<LOD	68	390	15	153	45	<LOD	317	<LOD	33	<LOD	14	8468	155	<LOD	24	<LOD	53	245	51	<LOD	0	198	36	20	3	31	2	<LOD	105	<LOD	5	<LOD	97	80	3	975	325	162	4
11-Apr-12	111	20.41	stroh 5444	124	NA	3	1	30			156.13	9.1	4.47	5.65	20.27	24.5	140.97	10.38	9.37	50.81	ND		14.39	12.24	2.43	4.99	11761.33	204.65	24.27	8.64	-16.03	18.7	-12.75	56.98	ND		375.46	47.22	3.15	3.71	48.44	2.94	-33.15	39.99	0.15	1.56	68.96	36.16	88.22	3.77	1962.72	343.58	215.18	5.39
11-Apr-12	112	20.49	wilder_5420	124	NA	2					260.58	11.44	<LOD	26.14	<LOD	73.25	399.8	16.83	<LOD	179.04	<LOD	902.75	<LOD	37.07	<LOD	16.94	11729.06	203.32	38.22	9.52	<LOD	50.59	<LOD	183.49	<LOD	0	444.26	49.41	<LOD	12.11	57.03	3.15	<LOD	119.62	<LOD	4.94	<LOD	115.93	123.8	4.33	2613.54	325.26	404.17	7.4
11-Apr-12	112	23.17	embree 5434	216	NA	3	1	30			408	14	<LOD	29	<LOD	72	367	15	<LOD	137	<LOD	428	<LOD	39	<LOD	16	14502	224	<LOD	26	<LOD	56	333	66	<LOD	0	348	44	<LOD	11	45	3	<LOD	114	<LOD	5	<LOD	106	109	4	2864	459	323	6
11-Apr-12	112	20.08	stroh 5444	124	NA	3	1	30			185.19	9.52	4.29	5.9	12.79	23.36	200.03	11.77	-27.87	49.96	ND		27.63	12.58	-4.65	4.31	12891.42	210.91	30.75	8.71	-77.22	17.85	-43.03	57.28	ND		404.77	47.43	-4.78	3.48	45.5	2.79	35.59	38.34	1.13	1.59	12.55	34.4	90.54	3.69	1046.62	332.68	181.45	4.85
11-Apr-12	113	21.61	wilder_5420	125	NA	1	2	0			1403.13	31.95	<LOD	65.43	<LOD	81.61	1188.41	34.07	<LOD	230.78	<LOD	1143.25	<LOD	59.61	<LOD	22.97	31505.65	464.71	292.87	20.45	<LOD	58.59	<LOD	332.18	<LOD	0	536.07	67.43	<LOD	12.89	30.33	3.04	<LOD	133.19	<LOD	8.62	<LOD	129.74	316.43	7.95	1411.19	363.89	163.07	5.73
11-Apr-12	113	23.22	embree 5434	216	NA	3	1	30			293	12	<LOD	25	<LOD	71	192	11	175	50	<LOD	409	<LOD	34	<LOD	14	12761	206	<LOD	24	<LOD	57	<LOD	181	<LOD	0	308	43	12	4	59	3	<LOD	117	<LOD	5	<LOD	107	111	4	3920	474	308	6
11-Apr-12	113	20.42	stroh 5444	124	NA	3	1	2			130.79	8.18	-5.63	4.88	-1.06	23.46	98.72	8.7	50.92	52.82	ND		16.36	12.2	5.03	4.98	11321.08	193.41	39.63	9.12	-36.3	18.05	33.03	55.02	ND		385.38	46.27	-10.9	3.5	45.55	2.79	-34.03	38.66	1.1	1.57	64.85	34.65	132.22	4.37	7060.34	496.85	254.57	5.69
11-Apr-12	114	21.64	wilder_5420	125	NA	1	2	0			1837.82	39.79	<LOD	77.34	<LOD	87.45	1140.6	35.07	358.96	100.26	<LOD	1350.23	<LOD	68.17	<LOD	24.64	45113.64	651.75	263.59	20.67	<LOD	61.83	<LOD	413.9	<LOD	0	431.52	73.91	<LOD	14.08	21.61	3	<LOD	143.06	<LOD	9.23	<LOD	141.51	263.37	7.6	1259.54	413.4	226.77	6.81
11-Apr-12	114	22.42	embree 5434	216	NA	3	2	30			704	16	<LOD	33	<LOD	62	450	15	<LOD	114	<LOD	349	<LOD	35	<LOD	15	10432	161	34	8	<LOD	49	206	50	<LOD	0	258	35	15	3	34	2	<LOD	98	<LOD	5	<LOD	90	78	3	4404	423	188	4
11-Apr-12	115	20.41	wilder_5420	125	NA	1	2	0			1068.48	27.3	<LOD	57.57	<LOD	82.13	843.33	28.34	<LOD	215.62	<LOD	1169.21	<LOD	49.59	<LOD	23.37	23443.63	373.39	217.38	18.06	<LOD	58.3	<LOD	295.37	<LOD	0	313.47	56.72	<LOD	13.61	39.17	3.23	<LOD	136.13	<LOD	8	<LOD	129.96	168.22	5.74	1954.3	382.16	325.08	7.56
11-Apr-12	115	24.56	embree 5434	216	NA	3	2	30			285	11	<LOD	23	<LOD	66	171	10	<LOD	110	<LOD	274	<LOD	30	<LOD	14	6564	126	<LOD	22	<LOD	51	185	43	<LOD	0	218	33	12	3	37	2	<LOD	104	<LOD	5	<LOD	96	79	3	1617	313	218	5
11-Apr-12	116	20.4	wilder_5420	125	NA	1	2	4			1226.87	26.18	<LOD	54.14	<LOD	72.55	604.73	21.05	<LOD	166.43	<LOD	930.32	<LOD	46.33	<LOD	21.45	18212.16	275.38	147.92	13.94	<LOD	50.81	<LOD	224.28	<LOD	0	459.8	52.48	<LOD	11.5	31.23	2.66	<LOD	116.61	<LOD	7.57	<LOD	113.1	161.4	4.97	1362.23	301.75	239.25	5.74
11-Apr-12	116	23.69	embree 5434	216	NA	3	2	30			752	16	<LOD	34	<LOD	59	589	17	<LOD	114	<LOD	291	<LOD	32	<LOD	14	14289	190	42	8	<LOD	46	322	56	<LOD	0	267	35	<LOD	9	31	2	<LOD	91	<LOD	5	<LOD	85	72	3	2178	330	176	4
11-Apr-12	117	18.75	wilder_5420	125	NA	1	2	4			1404.2	30.07	<LOD	60.81	<LOD	79.7	738.8	24.75	<LOD	215.56	1512.31	394.66	<LOD	52.34	<LOD	24.32	23815.95	353.57	154.29	15.03	<LOD	55.17	<LOD	273.05	<LOD	0	496.81	59.96	<LOD	12.75	37.79	3.03	<LOD	129.81	<LOD	8.18	<LOD	126.78	188.06	5.69	1670.76	369.09	299.94	6.81
11-Apr-12	117	22.94	embree 5434	216	NA	3	2	2			343	12	<LOD	25	<LOD	65	225	11	<LOD	104	<LOD	323	<LOD	32	<LOD	12	9334	156	<LOD	24	<LOD	50	189	49	<LOD	0	302	37	<LOD	10	34	2	<LOD	103	<LOD	5	<LOD	95	80	3	1665	345	214	5
11-Apr-12	118	20.22	wilder_5420	125	NA	1	2	4			1117.03	24.51	<LOD	51.75	<LOD	71.95	623.33	21.14	<LOD	188.81	<LOD	937.27	<LOD	42.44	<LOD	18.14	19858.41	289.64	140.91	13.5	<LOD	50.27	<LOD	229.86	<LOD	0	449.55	52.65	<LOD	11.17	35.53	2.72	<LOD	116.27	<LOD	6.67	<LOD	111.36	133.66	4.5	1449.81	304.8	220.16	5.44
11-Apr-12	118	23.74	embree 5434	216	NA	3	2	2			461	15	<LOD	31	<LOD	69	500	18	<LOD	116	<LOD	372	<LOD	34	<LOD	17	11616	194	<LOD	25	<LOD	54	220	59	<LOD	0	244	39	<LOD	10	23	2	<LOD	104	<LOD	5	<LOD	98	66	3	1737	389	126	4
11-Apr-12	119	21.42	wilder_5420	125	NA	1	2	8			542.2	17.32	<LOD	38.07	<LOD	75.9	284.02	15.03	<LOD	171.55	<LOD	974.13	<LOD	44.39	<LOD	17.44	16722	270.73	55.35	10.87	<LOD	53.19	<LOD	227.78	<LOD	0	311.57	48.72	<LOD	12.36	47.54	3.12	<LOD	123.35	<LOD	5.56	<LOD	117.51	119.98	4.5	1885.97	329	335.85	7.03
11-Apr-12	119	23.05	embree 5434	216	NA	3	2	2			567	15	<LOD	32	<LOD	65	366	14	<LOD	108	<LOD	291	<LOD	34	<LOD	13	10677	172	43	9	<LOD	51	<LOD	155	<LOD	0	204	35	<LOD	10	27	2	<LOD	102	<LOD	5	<LOD	95	67	3	1873	335	157	4
11-Apr-12	120	18.91	wilder_5420	125	NA	1	2	8			712.62	19.45	<LOD	41.93	<LOD	74.82	384.72	16.92	<LOD	182.98	<LOD	874.47	<LOD	42.1	<LOD	17.5	16068.48	255.26	102.04	12.34	<LOD	52.31	251.87	74.02	<LOD	0	404.53	50.64	<LOD	11.62	46.42	3.01	<LOD	125.57	<LOD	6.5	<LOD	120.57	135.21	4.61	1520.29	296.53	248.91	5.88
11-Apr-12	120	22.52	embree 5434	216	NA	3	3	30			436	12	<LOD	27	<LOD	59	392	14	<LOD	98	<LOD	298	<LOD	31	<LOD	14	9373	146	28	7	<LOD	47	197	46	<LOD	0	144	29	12	3	31	2	<LOD	91	<LOD	5	<LOD	84	77	3	<LOD	835	144	4
11-Apr-12	121	20.15	wilder_5420	125	NA	1	2	8			909.88	23.12	<LOD	49.38	<LOD	74.3	540.04	20.81	<LOD	184.36	<LOD	1007.44	<LOD	47.32	<LOD	18.77	19441.1	302.85	112.13	13.32	<LOD	52.54	<LOD	243.35	<LOD	0	318.79	50.72	<LOD	12.08	43.47	3.08	<LOD	118.93	<LOD	6.38	<LOD	115.15	146.69	4.98	1805.69	334.95	221.77	5.81
11-Apr-12	121	22.93	embree 5434	216	NA	3	3	30			462	14	<LOD	29	<LOD	66	354	14	<LOD	114	<LOD	368	<LOD	36	<LOD	15	13590	202	<LOD	24	<LOD	51	261	59	<LOD	0	265	38	17	3	40	2	<LOD	102	<LOD	5	<LOD	96	85	3	2370	396	169	4
11-Apr-12	122	21.62	wilder_5420	125	NA	1	4	0			1566.68	33.9	<LOD	68.48	<LOD	81.43	852.85	28.16	<LOD	224.56	<LOD	1140.52	<LOD	60.95	<LOD	21.47	28059.7	421.97	192.9	17.28	<LOD	57.34	<LOD	310.07	<LOD	0	403.34	61.32	14.2	4.36	24.75	2.85	<LOD	130.12	<LOD	8.47	<LOD	128.07	233.78	6.7	<LOD	1020.28	175.01	5.73
11-Apr-12	122	23.25	embree 5434	216	NA	3	3	30			794	18	<LOD	38	<LOD	63	572	18	<LOD	112	<LOD	348	<LOD	37	<LOD	16	13344	197	55	9	<LOD	49	232	58	<LOD	0	246	37	17	3	23	2	<LOD	96	<LOD	5	<LOD	88	71	3	<LOD	1029	97	3
11-Apr-12	123	20.95	wilder_5420	125	NA	1	4	6			310.13	12.51	<LOD	28.04	<LOD	71.38	153.6	10.83	<LOD	169.36	<LOD	879.37	<LOD	36.53	<LOD	12.57	12650.2	214.96	<LOD	26.7	<LOD	50.43	<LOD	186.75	<LOD	0	361.22	46.89	<LOD	11.83	53.94	3.1	<LOD	118.47	<LOD	5.1	<LOD	112.96	93.35	3.85	1595.14	296.38	339.22	6.74
11-Apr-12	123	23.71	embree 5434	216	NA	3	3	2			92	7	<LOD	17	<LOD	74	104	9	<LOD	131	<LOD	329	<LOD	32	<LOD	14	6712	143	<LOD	23	<LOD	58	<LOD	136	<LOD	0	<LOD	94	<LOD	11	27	2	<LOD	121	<LOD	5	<LOD	110	63	3	1268	351	219	5
11-Apr-12	124	21.22	wilder_5420	125	NA	1	4	6			306.86	12.35	<LOD	27.74	<LOD	71.47	162.33	11.07	<LOD	159.12	<LOD	899.89	<LOD	34.69	<LOD	13.53	11290.35	198.57	45.34	9.82	<LOD	49.66	<LOD	174.16	<LOD	0	317.96	44.35	<LOD	11.89	40.81	2.78	<LOD	116.35	<LOD	3.99	<LOD	110.89	97.6	3.9	1445.46	295.2	303.91	6.33
11-Apr-12	124	23.54	embree 5434	216	NA	3	3	2			549	16	<LOD	33	<LOD	68	246	12	<LOD	121	<LOD	340	<LOD	37	<LOD	15	11915	194	<LOD	25	<LOD	53	230	59	<LOD	0	269	40	<LOD	10	36	2	<LOD	106	<LOD	5	<LOD	99	76	3	1955	375	157	4
11-Apr-12	125	20.76	wilder_5420	125	NA	1	4	6			332.04	12.49	<LOD	28.27	<LOD	69.36	178.71	11.19	<LOD	146.64	<LOD	863.96	<LOD	35.37	<LOD	14.92	12363.99	204.25	31.86	8.89	<LOD	47.91	<LOD	181.18	<LOD	0	374.17	45.24	<LOD	11.23	44.24	2.78	<LOD	111.63	<LOD	5.48	<LOD	107.16	92.62	3.7	1705.22	291.59	310.27	6.2
11-Apr-12	125	22.03	embree 5434	216	NA	3	3	2			468	12	<LOD	25	<LOD	56	602	16	<LOD	78	<LOD	238	<LOD	26	<LOD	12	8106	126	41	7	<LOD	43	181	41	<LOD	0	165	27	<LOD	8	21	2	<LOD	84	<LOD	4	<LOD	77	62	3	<LOD	717	106	3
11-Apr-12	125	20.49	stroh 5444	125	NA	1	3	0			1467.87	32.5	40.68	18.13	47.31	27.63	1028.98	30.98	86.29	77.02	ND		7.9	18.39	8.66	7.77	29084.11	432.73	181.57	17.03	28.26	21.4	189.72	100.58	ND		288.26	58.82	0.71	4.15	45.32	3.37	53.02	44.6	-3.88	2.62	87.79	40.48	266.92	7.2	1857.76	454.57	216.88	6.23
11-Apr-12	126	20.12	wilder_5420	125	NA	1	4	4			323.37	12.2	<LOD	27.64	<LOD	68.65	211.04	11.92	<LOD	158.54	<LOD	777.03	<LOD	39.11	<LOD	13.95	11895.81	197.16	<LOD	25.86	<LOD	48.12	<LOD	176.86	<LOD	0	423.64	46.51	<LOD	11.59	54.12	2.97	<LOD	110.88	<LOD	5	<LOD	107.66	110.83	3.96	1360.21	264.54	350.22	6.56
11-Apr-12	126	22.95	embree 5434	216	NA	3	3	4			511	14	<LOD	30	<LOD	65	274	12	<LOD	107	<LOD	331	<LOD	33	<LOD	13	11331	177	27	8	<LOD	50	259	54	<LOD	0	222	35	<LOD	10	34	2	<LOD	102	<LOD	5	<LOD	94	78	3	1893	357	170	4
11-Apr-12	126	14.6	stroh 5444	125	NA	1	3	0			907.7	27.52	19.33	16.05	-42.94	30.66	584.55	25.73	131.08	80.45	ND		21.51	19.37	-8.73	6.47	20942.4	380.53	105.74	15.76	11.69	23.75	158.43	96.83	ND		333.85	63.37	2.63	4.7	48.17	3.8	36.9	49.86	-4.28	2.41	71.6	45.29	258.7	7.94	1469.18	434.72	243.34	7.35
11-Apr-12	127	19.99	wilder_5420	125	NA	1	4	4			299.15	12.48	<LOD	28.47	<LOD	72.84	199.3	12.35	<LOD	159.4	<LOD	918.19	<LOD	36.48	<LOD	13.97	11219.86	201.89	29.38	9.26	<LOD	50.56	<LOD	179.99	<LOD	0	341.58	46.08	<LOD	11.9	44.05	2.91	<LOD	116.19	<LOD	5.31	<LOD	112.75	94.19	3.92	1421.26	300.4	315.85	6.59
11-Apr-12	127	24.23	embree 5434	216	NA	3	3	4			395	12	<LOD	26	<LOD	62	260	12	<LOD	98	<LOD	309	<LOD	30	<LOD	12	10914	166	<LOD	22	<LOD	48	173	50	<LOD	0	199	33	11	3	36	2	<LOD	97	<LOD	4	<LOD	89	83	3	1277	320	176	4
11-Apr-12	127	21.12	stroh 5444	125	NA	1	3	0			1775.61	37.67	44.53	20.43	83.39	28.32	992.39	31.27	124.6	77.54	ND		21.08	18.58	-1.71	7.51	26138.57	410.81	245.55	19.58	9.75	21.91	111.88	97.43	ND		325.76	60.38	12.63	4.3	28.53	3.05	25.2	45.51	-3.57	2.89	33.85	41.37	332.69	8.37	1504.61	416.48	120.54	5.28
11-Apr-12	128	19.73	wilder_5420	125	NA	1	4	4			283.71	12.25	<LOD	27.4	<LOD	73.57	201.88	12.48	<LOD	161.87	<LOD	972.67	<LOD	37.22	<LOD	14.47	11487.13	206.4	<LOD	25.09	<LOD	51.73	<LOD	182.82	<LOD	0	443.39	50.28	<LOD	12.37	51.56	3.12	<LOD	119.64	<LOD	5.04	<LOD	115.6	105.14	4.14	2029.38	327.8	374.51	7.28
11-Apr-12	128	22.87	embree 5434	216	NA	3	3	4			439	13	<LOD	27	<LOD	61	341	13	<LOD	105	<LOD	269	<LOD	31	<LOD	13	9931	155	<LOD	22	<LOD	47	211	49	<LOD	0	232	33	<LOD	9	27	2	<LOD	93	<LOD	5	<LOD	86	71	3	913	281	120	3
11-Apr-12	128	20.16	stroh 5444	125	NA	1	3	4			487.42	15.77	32.07	9.82	29.82	24.33	347.39	15.91	6.52	55.26	ND		19.03	13.85	-4.48	4.95	16858.58	261.8	100.93	12.21	-66.32	18.58	9.71	68.37	ND		411.2	51.04	-0.16	3.74	52.33	3.08	9.51	39.46	0.11	1.88	59.2	35.64	128.86	4.49	2217.74	369.57	253.51	5.88
11-Apr-12	129	20.33	wilder_5420	125	NA	3	3	30			338.55	12.34	<LOD	27.87	<LOD	67.85	348.84	14.98	<LOD	162.19	<LOD	813.33	<LOD	33.84	<LOD	14.84	12842.32	205.04	36.22	8.94	<LOD	47.3	<LOD	174.03	<LOD	0	309.27	42.62	<LOD	10.75	36.18	2.53	<LOD	108.49	<LOD	4.83	<LOD	104.37	95.84	3.67	986.83	260.8	230.6	5.25
11-Apr-12	129	23.52	embree 5434	216	NA	3	3	6			356	12	<LOD	26	<LOD	65	256	12	<LOD	105	<LOD	299	<LOD	31	<LOD	14	9194	159	<LOD	23	<LOD	51	186	50	<LOD	0	147	32	15	3	25	2	<LOD	100	<LOD	5	<LOD	93	70	3	1699	334	128	4
11-Apr-12	129	19.8	stroh 5444	125	NA	1	3	4			470.48	14.8	8.26	8.96	54.36	23.07	340.12	15.02	-87.23	43.07	ND		-3.45	11.84	4.71	5.31	12594.15	205.35	53.23	9.7	-76.05	17.66	124.2	58.71	ND		266.57	41.54	2.62	3.6	46.9	2.82	48.11	37.05	-2.12	1.62	52.95	33.82	104.81	3.91	1283.27	295.18	256.16	5.63
11-Apr-12	130	21.98	wilder_5420	125	NA	3	3	30			364.97	13.8	<LOD	31.17	<LOD	72.06	272.42	14.33	<LOD	153.02	<LOD	880.73	<LOD	37.45	<LOD	14.78	13327.95	226.76	32.46	9.48	<LOD	50.58	<LOD	193.35	<LOD	0	332.26	46.48	<LOD	10.96	33.01	2.65	<LOD	115.48	<LOD	5.23	<LOD	109.5	93.23	3.91	<LOD	802.23	140.9	4.61
11-Apr-12	130	22.76	embree 5434	216	NA	3	3	6			315	10	34	8	<LOD	56	426	14	<LOD	94	<LOD	241	<LOD	25	<LOD	12	6452	114	32	7	<LOD	44	<LOD	111	<LOD	0	235	31	16	3	21	2	<LOD	84	<LOD	4	<LOD	78	62	3	<LOD	734	82	3
11-Apr-12	130	18.7	stroh 5444	125	NA	1	3	4			672.88	18.93	65.68	11.83	33.43	24.46	479.53	18.88	39.69	57.31	ND		10.9	14.79	-1.69	5.49	17298.19	269.53	94.82	12.17	-84.14	18.7	235.19	73.12	ND		249.74	46.2	-0.58	3.76	46.66	3	-14.99	39.45	-2.46	1.89	20.84	36.02	116.64	4.34	1737.28	346.38	238.91	5.77
11-Apr-12	131	19.17	wilder_5420	125	NA	3	3	30			438.8	13.6	<LOD	30.38	<LOD	62.38	304.69	13.59	<LOD	143.16	<LOD	708.07	<LOD	32.96	<LOD	12.48	12995.14	200.17	31.76	8.38	<LOD	43.43	<LOD	174.84	<LOD	0	191.66	36.64	<LOD	9.82	19.52	2.03	<LOD	96.36	<LOD	4.6	<LOD	94.01	89.78	3.45	<LOD	642.24	86.09	3.52
11-Apr-12	131	23.22	embree 5434	216	NA	3	3	6			264	11	<LOD	23	<LOD	67	202	11	<LOD	109	<LOD	298	<LOD	35	<LOD	14	10870	176	<LOD	22	<LOD	52	386	57	<LOD	0	302	39	10	3	34	2	<LOD	105	<LOD	4	<LOD	96	72	3	<LOD	910	148	4
11-Apr-12	131	19.5	stroh 5444	125	NA	2	3	30			176.14	9.41	1.69	5.78	34.39	24.12	123.15	9.62	70.42	53.89	ND		8.7	12.12	-2.96	4.5	12201.19	205.22	23.51	8.52	-0.53	18.38	9.66	57.29	ND		550.43	52.58	8.67	3.84	53.71	3	45.29	39.01	0.88	1.64	75.06	35.66	91.25	3.75	2864.98	367.31	350.4	6.74
11-Apr-12	132	21.9	wilder_5420	125	NA	3	3	2			743.18	21.25	<LOD	44.85	<LOD	78.81	787.14	25.99	<LOD	175.35	<LOD	932.53	<LOD	44.97	<LOD	18.93	14064.65	249.65	74.34	12.24	<LOD	55.23	<LOD	212.75	<LOD	0	357.09	50.95	<LOD	12.18	30.58	2.8	<LOD	127.87	<LOD	6.25	<LOD	125.01	163.86	5.4	1609.65	318	146.99	5.09
11-Apr-12	132	23.01	embree 5434	124	NA	3	2	30			204	9	<LOD	20	<LOD	67	156	10	<LOD	112	<LOD	362	<LOD	32	<LOD	14	9071	156	<LOD	22	<LOD	52	212	50	<LOD	0	294	38	<LOD	10	36	2	<LOD	107	<LOD	4	<LOD	98	80	3	1937	379	239	5
11-Apr-12	132	19.76	stroh 5444	125	NA	1	3	8			592.94	17.2	24.57	10.46	27.69	23.72	352.44	15.77	52.67	56.73	ND		30.16	14.47	-2.62	5.1	16094.42	249.32	92.66	11.76	-44.83	18.38	104.93	67.14	ND		306.27	46.65	3.52	3.73	52.04	3.03	2.53	38.89	-1.03	1.85	102.87	35.26	113.19	4.17	1403.2	338.95	265.18	5.9
11-Apr-12	133	20.18	wilder_5420	125	NA	3	3	2			617.16	19.01	<LOD	40.99	<LOD	77.77	478.62	19.84	<LOD	177.93	<LOD	994.51	<LOD	42.74	<LOD	13.04	14473.81	251.56	46.11	10.74	<LOD	54.5	<LOD	214.5	<LOD	0	256.79	46.84	<LOD	12.32	39.61	3	<LOD	128.04	<LOD	6.01	<LOD	122.61	126.41	4.72	1654.44	329.94	198.67	5.61
11-Apr-12	133	23.28	embree 5434	124	NA	3	2	30			97	7	<LOD	16	<LOD	72	94	8	<LOD	125	<LOD	383	<LOD	34	<LOD	12	11714	193	<LOD	22	<LOD	56	209	58	<LOD	0	331	42	<LOD	11	55	3	<LOD	115	<LOD	5	<LOD	106	97	4	3392	443	293	6
11-Apr-12	133	20.14	stroh 5444	125	NA	1	3	8			284.16	11.75	6.38	7.24	45.13	23.72	196.11	11.83	115.77	56.63	ND		27.78	12.89	-0.4	4.83	11534.89	198.34	33.32	9.06	-65.85	18.12	-1.26	55.74	ND		410.54	48.17	-2.8	3.68	51.21	2.96	65.33	38.01	-3.69	1.38	88.18	34.52	89.72	3.73	1820.3	343.09	302.34	6.25
11-Apr-12	134	21.4	wilder_5420	125	NA	3	3	2			412.1	14.89	<LOD	32.78	<LOD	76.13	403.83	17.61	<LOD	161.47	<LOD	814.39	<LOD	41.92	<LOD	17.95	13377.55	230.2	68.25	11.32	<LOD	52.94	<LOD	199.57	<LOD	0	347.56	47.79	<LOD	11.87	46.69	3.05	<LOD	123.01	<LOD	6.32	<LOD	119.37	149.24	4.91	998.69	271.19	184.03	5.26
11-Apr-12	134	22.72	embree 5434	124	NA	3	2	30			186	9	<LOD	19	<LOD	65	133	9	<LOD	111	<LOD	309	<LOD	31	<LOD	11	7363	133	<LOD	20	<LOD	50	214	44	<LOD	0	247	34	<LOD	10	35	2	<LOD	103	<LOD	4	<LOD	95	79	3	1323	323	225	5
11-Apr-12	134	20.52	stroh 5444	125	NA	1	3	8			497.41	15.59	51.68	9.92	-22.45	22.96	356.45	15.7	23.66	52.31	ND		43.2	13.62	-2.23	4.97	13752.44	222.69	48.27	9.79	-153.54	17.67	-66.22	59.5	ND		376.47	47.37	1.39	3.62	36.57	2.63	-24.63	36.54	3.55	2.02	5.8	33.37	94.36	3.81	1527.84	328.77	210.8	5.25
11-Apr-12	135	19.38	wilder_5420	125	NA	3	3	4			299.53	10.78	<LOD	24.56	<LOD	61.64	263.63	12.17	<LOD	115.03	<LOD	673.48	<LOD	28.05	<LOD	12.69	7033.96	130.81	40.17	8.39	<LOD	43.25	<LOD	123.85	<LOD	0	275.65	35.41	<LOD	9.78	23.36	2.02	<LOD	100.04	<LOD	4.47	<LOD	95.8	64.57	2.89	<LOD	615.05	169.97	4.23
11-Apr-12	135	22.85	embree 5434	124	NA	3	3	30			87	6	<LOD	12	<LOD	56	113	8	<LOD	90	<LOD	258	<LOD	25	<LOD	10	9107	140	<LOD	17	<LOD	44	<LOD	129	<LOD	0	146	28	18	3	17	2	<LOD	83	<LOD	4	<LOD	77	34	2	<LOD	772	90	3
11-Apr-12	135	19.63	stroh 5444	125	NA	3	4	30			335.96	12.26	21.83	7.73	32.05	22.81	371.17	15.38	39.08	49.59	ND		9.79	11	-4.75	4.45	9485.98	167.99	50.41	9.34	-59.2	17.4	7.91	48.96	ND		291.69	41.1	-0.78	3.45	35.14	2.47	-30.9	36.66	1	1.67	28.79	33.4	73.51	3.29	1399.84	321.15	213.48	5.04
11-Apr-12	136	19.72	wilder_5420	125	NA	3	3	4			299.79	11.09	<LOD	24.48	<LOD	64.68	247.96	12.14	<LOD	140.55	<LOD	700.15	<LOD	29.21	<LOD	11.98	8986.1	156.06	<LOD	23.47	<LOD	44.55	<LOD	143.13	<LOD	0	292.99	38.25	<LOD	9.89	28.27	2.21	<LOD	104.36	<LOD	4.35	<LOD	99.33	67.87	3.04	1055.17	235.17	194.81	4.62
11-Apr-12	136	23.36	embree 5434	124	NA	3	3	30			301	12	<LOD	26	<LOD	73	272	13	<LOD	136	<LOD	403	<LOD	37	<LOD	18	13261	214	<LOD	27	<LOD	56	283	64	<LOD	0	381	46	<LOD	11	53	3	<LOD	116	<LOD	5	<LOD	107	85	4	2841	445	290	6
11-Apr-12	136	19.72	stroh 5444	125	NA	3	4	30			304.41	11.83	21.74	7.5	11.75	22.89	308.24	14.22	55.76	51.23	ND		30.23	12.81	-1.94	4.67	10495.44	181.39	42.84	9.24	-61.48	17.61	74.44	53.09	ND		401.52	45.92	-0.76	3.58	40.06	2.62	5.45	36.96	1.56	1.72	75.38	33.8	79.24	3.44	1776.57	329.2	285.11	5.88
11-Apr-12	137	18.08	wilder_5420	125	NA	3	3	4			188.48	9.14	<LOD	20.53	<LOD	67.37	174.05	10.58	<LOD	137.37	<LOD	756.13	<LOD	31.71	<LOD	12.29	9227.25	162.57	<LOD	24.16	<LOD	46.38	<LOD	151.32	<LOD	0	352.76	41.39	<LOD	10.41	33.89	2.4	<LOD	110.11	<LOD	3.84	<LOD	105.1	69.52	3.14	962.94	246.1	256.89	5.38
11-Apr-12	137	25.2	embree 5434	124	NA	3	3	30			348	13	<LOD	28	<LOD	74	288	14	<LOD	128	<LOD	419	<LOD	40	<LOD	16	13343	221	<LOD	28	<LOD	59	<LOD	188	<LOD	0	425	48	<LOD	11	42	3	<LOD	119	<LOD	5	<LOD	109	85	4	2451	449	254	6
11-Apr-12	137	20.24	stroh 5444	125	NA	3	4	30			427.55	14.16	16.83	8.72	-17.13	22.75	426.79	16.87	-19.31	45.62	ND		15.5	11.38	0.11	4.98	9308.12	169.81	48.02	9.48	-134.01	17.44	-19.25	49.18	ND		188.89	37.39	-5.78	3.5	30.3	2.41	-22.87	36.1	-0.1	1.7	40.79	33.15	68.33	3.28	1278.51	303.34	227.55	5.32
11-Apr-12	138	19.67	wilder_5420	217	NA	3	1	30			224.26	11.04	27.11	8.72	<LOD	74.09	184.27	12.09	<LOD	190.33	1331.07	357	<LOD	45.62	<LOD	17.19	22230.48	325.8	<LOD	28.11	<LOD	51.55	<LOD	253.13	<LOD	0	435.19	54.84	<LOD	11.91	33.38	2.68	<LOD	119.97	<LOD	4.86	<LOD	115.8	130.1	4.58	1050.3	326.48	243.01	5.89
11-Apr-12	138	24.23	embree 5434	125	NA	1	1	0			1710	39	<LOD	74	<LOD	93	936	32	<LOD	205	<LOD	558	<LOD	65	<LOD	22	34092	537	126	17	<LOD	73	616	126	<LOD	0	453	69	17	5	26	3	<LOD	148	<LOD	10	<LOD	136	177	6	1724	571	151	6
11-Apr-12	138	19.85	stroh 5444	125	NA	3	4	2			276.78	11.23	20.79	7.15	24.64	23.08	255.21	12.93	38.12	48.98	ND		19.47	11.73	-4.41	4.38	9056.04	164.76	35.56	8.74	-49.66	17.6	57.12	49.16	ND		431.52	46.01	-5.17	3.43	32.55	2.42	18.45	37.3	-2.17	1.42	5.76	33.99	72.35	3.3	1707.04	323.55	205.5	5
11-Apr-12	139	21.01	wilder_5420	217	NA	3	1	30			189.82	10.13	<LOD	22.77	<LOD	74.81	159.83	11.24	<LOD	174.33	<LOD	962.99	<LOD	39.38	<LOD	15.63	15510.9	250.66	33.01	9.52	<LOD	52.13	<LOD	207.49	<LOD	0	391.49	50.01	<LOD	12.06	48.56	3.03	<LOD	123.02	<LOD	4.68	<LOD	117.76	124.82	4.45	1510.51	313.45	299.94	6.46
11-Apr-12	139	24.09	embree 5434	125	NA	1	1	0			1975	42	<LOD	77	<LOD	88	1186	35	<LOD	196	<LOD	577	<LOD	63	<LOD	23	33016	504	246	20	<LOD	71	<LOD	347	<LOD	0	468	67	19	4	18	3	<LOD	143	<LOD	10	<LOD	132	195	6	2058	586	155	5
11-Apr-12	139	21.16	stroh 5444	125	NA	3	4	2			212.41	10.75	4.39	6.64	-0.01	25.12	230.22	13.3	-8.08	48.6	ND		14.26	12.01	0.63	5.09	8414.25	170.41	7.51	8	-0.92	19.34	6.3	50.5	ND		338.75	45.67	0.95	3.82	38.33	2.78	2.08	40.7	-0.63	1.59	39	36.45	96.7	4.04	1741.95	335.67	220.76	5.63
11-Apr-12	140	19.74	wilder_5420	217	NA	3	1	30			237.68	11.53	<LOD	26.39	<LOD	75.11	207.26	12.92	<LOD	213.98	<LOD	1039.18	<LOD	51.23	<LOD	18.08	26415.09	375.21	<LOD	28.29	<LOD	52.5	<LOD	275.04	<LOD	0	459.7	58.19	<LOD	12.12	49.28	3.13	<LOD	121.35	<LOD	5.41	<LOD	116.36	133.99	4.71	1430.13	332.51	257.87	6.15
11-Apr-12	140	24.24	embree 5434	125	NA	1	1	0			999	27	<LOD	56	<LOD	90	648	25	<LOD	194	<LOD	499	<LOD	55	<LOD	22	24764	403	139	16	<LOD	70	431	103	<LOD	0	310	58	16	4	29	3	<LOD	142	<LOD	8	<LOD	132	182	6	3138	563	184	6
11-Apr-12	140	18.33	stroh 5444	125	NA	3	4	2			302.69	10.79	8.2	6.67	40.94	20.89	292.76	12.7	0.94	40.12	ND		9.64	9.6	2.88	4.52	7706.12	137.03	27.82	7.59	-110.28	15.85	-20.68	40.79	ND		199.65	33.38	4.09	3.23	30.6	2.18	55.57	33.66	-1.84	1.33	36.51	30.3	65.3	2.91	1456.24	262.82	206.61	4.6
11-Apr-12	141	18.93	wilder_5420	217	NA	3	1	2			155.59	8.47	<LOD	19.12	<LOD	66.57	107.41	8.68	<LOD	136.68	<LOD	764.41	<LOD	34.99	<LOD	12.05	9587.26	168.31	<LOD	22.57	<LOD	45.83	<LOD	154.28	<LOD	0	228.57	37.33	<LOD	10.38	29.9	2.32	<LOD	106.71	<LOD	3.41	<LOD	102.37	72.72	3.23	<LOD	674.01	189.89	4.73
11-Apr-12	141	24.28	embree 5434	125	NA	1	1	4			600	19	<LOD	40	<LOD	81	324	17	<LOD	130	<LOD	411	<LOD	39	<LOD	19	11497	220	70	12	<LOD	63	<LOD	193	<LOD	0	327	48	16	4	34	3	<LOD	129	<LOD	6	<LOD	118	81	4	2598	467	195	5
11-Apr-12	142	19.01	wilder_5420	217	NA	3	1	2			143	8.17	<LOD	19.04	<LOD	65.93	120.85	9.1	<LOD	138.41	<LOD	694.05	<LOD	32.57	<LOD	14	10071.29	173.29	<LOD	21.72	<LOD	45.47	<LOD	157.6	<LOD	0	232.3	37.44	<LOD	10.17	32.19	2.37	<LOD	104.86	<LOD	4.09	<LOD	100.72	74.33	3.25	1314.1	245.26	196.58	4.8
11-Apr-12	142	22.61	embree 5434	125	NA	1	1	4			855	19	<LOD	40	<LOD	68	490	17	<LOD	127	<LOD	391	<LOD	39	<LOD	15	15777	223	103	11	<LOD	52	302	64	<LOD	0	413	44	14	3	41	2	<LOD	107	<LOD	5	<LOD	98	124	4	2340	413	230	5
11-Apr-12	143	18.55	wilder_5420	217	NA	3	1	2			121.43	7.43	<LOD	16.52	<LOD	64.52	87.89	7.8	<LOD	132.28	<LOD	696.06	<LOD	29.4	<LOD	12.39	9043.61	157.8	<LOD	22.83	<LOD	44.46	<LOD	142.09	<LOD	0	226.95	35.83	<LOD	10.13	34.86	2.37	<LOD	103.75	<LOD	3.95	<LOD	99.23	68.21	3.06	1022.2	234.3	196.55	4.67
11-Apr-12	143	23.23	embree 5434	125	NA	1	1	4			714	19	<LOD	39	<LOD	72	505	18	<LOD	125	<LOD	406	<LOD	41	<LOD	16	14419	225	79	11	<LOD	56	207	65	<LOD	0	422	47	<LOD	11	33	2	<LOD	115	<LOD	6	<LOD	106	100	4	1838	419	224	5
11-Apr-12	144	20.18	wilder_5420	217	NA	3			children playing		215.78	10.17	<LOD	23.09	<LOD	70.45	174.39	11.02	<LOD	162.56	<LOD	895.17	<LOD	38.34	<LOD	12.56	14820.42	229.52	26.85	8.65	<LOD	48.56	<LOD	197.45	<LOD	0	346.4	45.44	<LOD	11.08	47.21	2.83	<LOD	114.24	<LOD	5.4	<LOD	109.76	132.18	4.32	1808.97	300.52	311.4	6.23
11-Apr-12	144	22.53	embree 5434	125	NA	1	1	8			354	12	<LOD	26	<LOD	67	199	11	<LOD	119	<LOD	354	<LOD	38	<LOD	12	13860	202	<LOD	24	<LOD	52	<LOD	173	<LOD	0	272	38	<LOD	10	53	3	<LOD	106	<LOD	5	<LOD	98	103	4	3139	408	298	5
11-Apr-12	145	19.77	wilder_5420	217	NA	3			children playing		236.69	10.35	<LOD	23.5	<LOD	68.87	185.48	11.04	<LOD	158.31	<LOD	850.37	<LOD	35.49	<LOD	12.88	13002.37	205.35	<LOD	23.18	<LOD	47.08	<LOD	176.93	<LOD	0	234.48	39.72	<LOD	10.71	34.44	2.46	<LOD	112.27	<LOD	5.15	<LOD	106.29	106.06	3.81	1264.6	275.13	246.72	5.39
11-Apr-12	145	23.38	embree 5434	125	NA	1	1	8			327	13	<LOD	26	<LOD	72	171	11	<LOD	143	434	141	<LOD	35	<LOD	17	12578	206	35	9	<LOD	57	265	62	<LOD	0	339	44	15	4	50	3	<LOD	116	<LOD	6	<LOD	107	91	4	1493	419	280	6
11-Apr-12	146	19.66	wilder_5420	217	NA	3	4	30			182	8.32	<LOD	18.62	<LOD	58.6	222.51	10.9	<LOD	115.33	<LOD	675.04	<LOD	29.69	<LOD	9.9	7470.64	132.17	<LOD	19.53	<LOD	40.84	<LOD	126.48	<LOD	0	245.12	33.58	<LOD	9.16	27.27	2.05	<LOD	92.15	<LOD	4.18	<LOD	88.24	65.57	2.83	775.64	217.05	169.36	4.11
11-Apr-12	146	22.74	embree 5434	125	NA	1	1	8			405	13	<LOD	27	<LOD	66	233	11	<LOD	110	<LOD	353	<LOD	34	<LOD	15	10072	163	<LOD	24	<LOD	51	223	51	<LOD	0	185	33	11	3	40	2	<LOD	103	<LOD	5	<LOD	95	86	3	1662	363	232	5
11-Apr-12	147	20.42	wilder_5420	217	NA	3	4	30			268.62	12.4	<LOD	27.82	<LOD	76.74	244.96	14.2	<LOD	180.12	<LOD	998.54	<LOD	41.63	<LOD	17.19	12506.01	226.38	<LOD	29.32	<LOD	53.71	<LOD	198.85	<LOD	0	356.77	49.64	<LOD	12.42	58.25	3.39	<LOD	123.3	<LOD	5.36	<LOD	119.38	104.91	4.3	1445.26	322.62	334.45	7.11
11-Apr-12	147	24.85	embree 5434	125	NA	3	1	2	30 is concrete		561	16	<LOD	33	<LOD	70	324	14	<LOD	124	<LOD	377	<LOD	41	<LOD	15	13218	208	40	9	<LOD	55	235	61	<LOD	0	321	42	<LOD	10	38	2	<LOD	112	<LOD	5	<LOD	103	89	4	2351	411	220	5
11-Apr-12	148	20.94	wilder_5420	217	NA	3	4	30			338.12	12.74	<LOD	28.14	<LOD	70.35	383.9	16.2	<LOD	157.75	<LOD	849.07	<LOD	35.84	<LOD	12.88	11314.33	195.33	34.12	9.16	<LOD	48.93	<LOD	176	<LOD	0	514.22	50.29	<LOD	11.49	47.01	2.87	<LOD	112.77	<LOD	5.01	<LOD	110.19	97.29	3.82	1200.03	276.45	285.94	6.02
11-Apr-12	148	22.79	embree 5434	125	NA	3	1	2	30 is concrete		611	15	<LOD	32	<LOD	63	327	13	<LOD	92	<LOD	284	<LOD	29	<LOD	12	9213	150	54	9	<LOD	49	192	48	<LOD	0	130	29	14	3	30	2	<LOD	95	<LOD	5	<LOD	88	83	3	1094	298	134	4
11-Apr-12	149	20.18	wilder_5420	176	NA	3	2	30			224.04	10.33	<LOD	23.54	<LOD	70.69	268.01	13.44	<LOD	164.79	<LOD	879.56	<LOD	36.14	<LOD	13.88	11978.37	199.72	29.99	8.84	<LOD	48.7	<LOD	175.15	<LOD	0	387.48	45.88	<LOD	11.32	49.32	2.88	<LOD	115.75	<LOD	4.68	<LOD	111.6	109.07	3.96	2086.68	303.77	336.41	6.47
11-Apr-12	149	23.07	embree 5434	125	NA	3	1	2	30 is concrete		677	18	<LOD	37	<LOD	71	363	15	<LOD	116	<LOD	368	<LOD	39	<LOD	17	14464	221	176	14	<LOD	55	220	64	<LOD	0	340	43	<LOD	10	35	2	<LOD	116	<LOD	6	<LOD	105	92	4	2291	406	218	5
11-Apr-12	149	19.87	stroh 5444		BLANK						-0.7	2.87	2.27	1.72	-5.04	21.65	0.99	3.31	64.54	37.16	ND		3.62	6.99	-6.87	3.31	19.7	14.76	15.68	6.66	8.63	16.62	-6.99	9.59	ND		-34.56	15.9	-0.04	3.03	0.33	1.21	45.46	34.55	0.22	1.14	58.96	31.46	-0.44	1.42	34.9	171.77	1.55	2.19
11-Apr-12	150	21.25	wilder_5420	176	NA	3	2	30			229.26	10.76	<LOD	24.3	<LOD	71.39	367.72	16.14	<LOD	157.77	<LOD	927.64	<LOD	38.89	<LOD	15.64	12247.15	209.2	<LOD	25.82	<LOD	49.9	<LOD	182.85	<LOD	0	260.15	42.48	<LOD	11.89	47.22	2.93	<LOD	113.91	<LOD	4.28	<LOD	110.15	102.61	3.98	2288.99	322.2	305.3	6.35
11-Apr-12	150	23.12	embree 5434	125	NA	3	1	4	30 is concrete		600	16	<LOD	33	<LOD	64	426	15	<LOD	113	<LOD	319	<LOD	35	<LOD	16	11917	183	52	9	<LOD	50	182	55	<LOD	0	232	36	<LOD	10	29	2	<LOD	98	<LOD	4	<LOD	91	68	3	1946	352	145	4
11-Apr-12	150	20.47	stroh 5444		nist 2711						1195.09	27.23	92.36	16.05	43.19	25.85	355.96	16.95	140.56	69.04	ND		-22.19	14.47	4.92	6.61	24390.96	358.64	87.17	12.46	-5.83	19.94	77.04	86.48	ND		475.78	59.25	0.69	3.95	118.56	4.67	78.21	40.8	2.92	2.66	50.12	37.07	245.84	6.52	2958.33	404.24	247.73	6.23
11-Apr-12	151	20.73	wilder_5420	176	NA	3	2	30			170.97	8.83	<LOD	20	<LOD	65.79	154.43	10.08	<LOD	125.96	<LOD	736.8	<LOD	30.83	<LOD	11.37	7242.3	141.26	<LOD	21.99	<LOD	45.79	<LOD	132.21	<LOD	0	168.5	33.39	<LOD	10.7	36.07	2.47	<LOD	105.43	<LOD	4.47	<LOD	101.75	78.09	3.31	<LOD	695.4	228.66	5.14
11-Apr-12	151	23.04	embree 5434	125	NA	3	1	4	30 is concrete		405	13	<LOD	28	<LOD	67	276	13	<LOD	125	<LOD	338	<LOD	35	<LOD	14	13162	200	48	9	<LOD	53	<LOD	174	<LOD	0	322	41	<LOD	10	39	2	<LOD	105	<LOD	5	<LOD	97	94	3	2197	376	208	5
11-Apr-12	151	20.32	stroh 5444		NIST 2586						392.88	15.47	21.95	9.63	39.5	26.87	330.2	17	185.62	89.01	ND		77.49	23.28	16.75	6.99	49617.15	654.38	58.81	12.16	14.12	21.02	122.49	126.78	ND		658.97	76.04	3.19	4.16	53.05	3.38	68.85	44.08	0.37	2.05	158.65	40.61	84.12	4.09	6284.78	598.26	244.74	6.26
11-Apr-12	152	19.98	wilder_5420	176	NA	4		3	play area		495.53	16.61	<LOD	36.62	<LOD	75.75	319.15	15.94	<LOD	172.62	<LOD	993.33	<LOD	44.87	<LOD	16.81	18018.32	286.19	54.93	10.91	<LOD	52.89	<LOD	231.77	<LOD	0	282.19	48.28	<LOD	12.58	56.32	3.34	<LOD	121.98	<LOD	5.94	<LOD	116.9	138.04	4.82	2598.45	351.89	313.6	6.83
11-Apr-12	152	22.96	embree 5434	125	NA	3	1	4	30 is concrete		381	13	<LOD	26	<LOD	65	233	12	<LOD	105	<LOD	316	<LOD	32	<LOD	14	10557	170	40	9	<LOD	51	280	53	<LOD	0	262	36	14	3	39	2	<LOD	103	<LOD	5	<LOD	95	79	3	2399	363	197	4
11-Apr-12	152	21.18	stroh 5444		PES 5861						46.36	5.86	41.99	4.7	132.51	25.31	122.8	13.13	971.94	93.64	ND		919.41	38.72	1.08	4.98	14530.46	235.1	2785.69	57.44	86.45	19.22	215.11	66.41	ND		261.18	48.67	8.16	3.61	21.42	2.21	49.1	41.43	8.55	2.04	107.82	37.27	129.64	4.45	659.56	299.59	88.22	3.91
11-Apr-12	153	20.34	wilder_5420	176	NA	4		3	play area		419.73	14.01	<LOD	30.2	<LOD	69.7	263.99	13.38	<LOD	163.81	1132.37	320.05	<LOD	37.12	<LOD	13.38	15115.43	232.89	53.51	9.8	<LOD	48.74	<LOD	202.8	<LOD	0	354.31	46.08	<LOD	11.27	56.95	3.07	<LOD	112.99	<LOD	5.09	<LOD	107.09	129.38	4.29	1316.65	301.13	331.62	6.44
11-Apr-12	153	23.33	embree 5434	125	NA	3	1	6	30 is concrete		102	8	<LOD	17	<LOD	73	72	8	<LOD	112	<LOD	388	<LOD	32	<LOD	16	8721	163	<LOD	23	<LOD	57	<LOD	152	<LOD	0	351	42	16	4	46	3	<LOD	117	<LOD	4	<LOD	108	95	4	3845	460	328	6
11-Apr-12	153	20.5	stroh 5444		PES4315						297.49	11.75	12.63	7.33	43.76	23.19	865.59	24.28	86.1	47.87	ND		-17.22	7.87	-3.07	4.92	2729.75	84.33	106.68	11.68	-26.78	17.86	27.68	29.67	ND		492.8	46.31	2.09	3.35	9.94	1.83	44.91	37.17	-0.64	1.53	13.2	33.49	277.13	6.32	-19.72	234.92	43.57	3.45
11-Apr-12	154	21.23	wilder_5420	176	NA	4		3	play area		462.5	15.3	<LOD	33.52	<LOD	71.18	321.06	15.28	<LOD	166.25	<LOD	904.38	<LOD	37.59	<LOD	16.28	14577.34	236.46	65.33	10.75	<LOD	49.57	<LOD	202.41	<LOD	0	336.61	46.74	<LOD	11.55	50.46	3.04	<LOD	113.74	<LOD	5.58	<LOD	109.33	110.85	4.16	1666.28	303.55	266.18	5.98

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

In-Situ XRF Data

Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment		Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
11-Apr-12	154	23.02	embree 5434	125	NA	3	1	6	30 is concrete		523	15	<LOD	32	<LOD	66	367	14	<LOD	118	<LOD	343	<LOD	37	<LOD	15	13034	196	32	9	<LOD	51	<LOD	170	<LOD	0	293	39	<LOD	10	33	2	<LOD	103	<LOD	5	<LOD	94	88	3	1841	367	174	4
11-Apr-12	154	18.99	stroh 5444		nist2710						5520.81	85.66	654.27	39.62	54.33	28.33	7084.94	113.8	2.56	93.51	ND		-4.8	21	86.93	16.34	37588.44	561.76	2995.79	70.51	-122.98	22.39	-276.96	116.28	ND		9797.55	246.21	16.51	4.52	141.01	5.94	35.61	45.04	-4.2	5.07	29.12	41.43	333.02	8.7	1723.42	495.65	117.31	5.43
11-Apr-12	155	18.95	wilder_5420	176	NA	4		3	play area		283.26	12	<LOD	27	<LOD	72.78	215.58	12.64	<LOD	171.97	<LOD	914.51	<LOD	39.96	<LOD	15.17	16761.69	259.23	52.07	10.16	<LOD	50.58	<LOD	215.38	<LOD	0	215.9	43.21	<LOD	11.97	75.33	3.56	<LOD	117.57	<LOD	5.39	<LOD	113.28	133.45	4.51	2301.58	322.17	352.6	6.91
11-Apr-12	155	23.33	embree 5434	125	NA	3	1	6	30 is concrete		479	15	<LOD	32	<LOD	72	319	14	<LOD	135	<LOD	388	<LOD	40	<LOD	16	14369	224	29	9	<LOD	56	247	65	<LOD	0	371	45	18	4	45	3	<LOD	113	<LOD	5	<LOD	104	98	4	2144	415	225	5
11-Apr-12	156	19.51	wilder_5420	176	NA	4		3	play area		331.36	13.31	<LOD	30.69	<LOD	75.35	247.63	13.85	<LOD	191.21	<LOD	992.76	<LOD	38.46	<LOD	15.22	14763.79	244.78	46.62	10.18	<LOD	52.61	<LOD	212.28	<LOD	0	283.1	46.73	<LOD	12.5	66.91	3.49	<LOD	121.48	<LOD	5.5	<LOD	117.25	126.94	4.54	1975.7	332.06	352.89	7.11
11-Apr-12	156	24.09	embree 5434	217	NA	1	1	0			514	18	<LOD	37	<LOD	82	296	16	<LOD	142	<LOD	411	<LOD	42	<LOD	19	12409	231	34	11	<LOD	64	<LOD	205	<LOD	0	239	45	13	4	44	3	<LOD	132	<LOD	7	<LOD	120	136	5	3039	483	302	7
11-Apr-12	157	20.11	wilder_5420	176	NA	4		3	play area		153.79	9.52	<LOD	21.74	<LOD	76.07	111.12	9.93	<LOD	157.75	<LOD	952.3	<LOD	40.63	<LOD	16.62	14543.14	247.39	31.23	9.71	<LOD	53.23	<LOD	209.2	<LOD	0	583.75	57.22	<LOD	12.73	59.75	3.38	<LOD	125.52	<LOD	4.92	<LOD	121.35	108.67	4.31	2102.26	330.78	364.19	7.36
11-Apr-12	157	23.27	embree 5434	217	NA	1	1	0			425	14	<LOD	30	<LOD	74	230	12	<LOD	123	<LOD	399	<LOD	39	<LOD	17	11224	191	<LOD	26	<LOD	57	226	58	<LOD	0	290	41	<LOD	11	47	3	<LOD	119	<LOD	6	<LOD	107	126	4	3363	456	374	7
11-Apr-12	158	20.77	wilder_5420		4315						269.33	11.05	<LOD	25.4	<LOD	67.75	841.56	23.57	173.39	53.14	<LOD	635.68	<LOD	27.63	<LOD	14.45	2504.75	80.67	91.32	11.14	<LOD	47.9	<LOD	85.24	<LOD	0	576.37	47.75	<LOD	9.91	8.87	1.79	<LOD	109.06	<LOD	4.79	<LOD	104.5	303.4	6.49	<LOD	506.28	44.35	3.46
11-Apr-12	158	23.45	embree 5434	217	NA	1	1	0			347	13	<LOD	28	<LOD	74	223	13	<LOD	121	<LOD	391	<LOD	39	<LOD	15	10987	193	36	10	<LOD	58	302	60	<LOD	0	314	43	12	4	38	3	<LOD	120	<LOD	5	<LOD	108	109	4	2207	423	325	6
11-Apr-12	159	19.45	wilder_5420		5861						62.09	6.67	49.16	6.24	<LOD	78.2	143.24	15.01	1064.35	101.51	<LOD	822.79	972.66	41.91	<LOD	12.76	14751.9	247.4	2516.26	56.14	54.47	17.98	<LOD	214.55	<LOD	0	190.56	47.69	<LOD	11.18	23.81	2.41	<LOD	128.46	<LOD	5.3	<LOD	122.37	116.61	4.39	<LOD	739.31	70.88	3.83
11-Apr-12	159	22.89	embree 5434	217	NA	1	1	2			316	11	<LOD	24	<LOD	64	217	11	<LOD	99	<LOD	307	<LOD	31	<LOD	15	7623	137	<LOD	23	<LOD	51	258	46	<LOD	0	188	32	14	3	37	2	<LOD	101	<LOD	5	<LOD	93	97	3	1714	335	278	5
11-Apr-12	160	19.59	wilder_5420		2586						459.13	17.12	<LOD	37.17	<LOD	82.5	312.58	16.95	502.32	102.67	<LOD	1463.62	<LOD	70.73	<LOD	19.66	50465.86	672.75	85.66	13.28	<LOD	58.34	<LOD	416.79	<LOD	0	651.37	78.21	<LOD	13.06	41.81	3.21	<LOD	136.04	<LOD	6.74	<LOD	130.59	80.04	4.08	4071.55	493.84	267.6	6.69
11-Apr-12	160	24.39	embree 5434	217	NA	1	1	2			306	14	<LOD	31	<LOD	82	208	14	<LOD	126	<LOD	423	<LOD	35	<LOD	19	8888	189	39	11	<LOD	65	198	60	<LOD	0	223	43	15	4	41	3	<LOD	131	<LOD	6	<LOD	121	91	4	<LOD	1288	265	6
11-Apr-12	161	20.9	wilder_5420		2711						1129.47	25.75	125.01	18.92	<LOD	75.1	293.56	15.22	<LOD	172.44	<LOD	942.14	<LOD	48.68	<LOD	21.02	24910.77	355.98	117.8	13.19	<LOD	52.75	<LOD	274.72	<LOD	0	457.54	56.31	<LOD	11.69	107.5	4.39	<LOD	118.66	<LOD	7.94	<LOD	113.39	256.77	6.5	1915.58	324.04	238.86	6.02
11-Apr-12	161	23.61	embree 5434	217	NA	1	1	2			250	11	<LOD	25	<LOD	75	163	11	<LOD	124	<LOD	362	<LOD	34	<LOD	14	9430	177	<LOD	26	<LOD	58	<LOD	162	<LOD	0	233	39	16	4	39	3	<LOD	120	<LOD	5	<LOD	111	92	4	2159	404	301	6
11-Apr-12	162	18.55	wilder_5420		2710						5628.12	87.91	595.87	48.8	<LOD	86.92	6979.54	114.18	<LOD	292.86	<LOD	1406.56	<LOD	72.2	<LOD	47.9	38795.24	584.83	3066.28	72.22	<LOD	62.01	<LOD	389.83	<LOD	0	9814.55	249.56	<LOD	13.74	129.31	5.84	<LOD	136.76	<LOD	16.26	<LOD	133.1	342.58	8.94	1800.77	436.93	122.15	5.68
11-Apr-12	162	24.99	embree 5434	217	NA	1	2	0			295	12	<LOD	24	<LOD	70	223	12	<LOD	102	<LOD	342	<LOD	31	<LOD	14	8356	156	<LOD	24	<LOD	55	199	50	<LOD	0	228	36	12	3	32	2	<LOD	112	<LOD	5	<LOD	103	120	4	1559	363	192	5
11-Apr-12	163	19.36	wilder_5420		Blank						<LOD	9.4	<LOD	6.22	<LOD	67.13	<LOD	10.71	<LOD	95.49	<LOD	549.87	<LOD	21.93	<LOD	12.18	<LOD	53.28	<LOD	17.44	<LOD	45.66	<LOD	29.35	<LOD	0	<LOD	53.89	<LOD	9.5	<LOD	3.89	<LOD	105.01	<LOD	4.17	<LOD	101.83	<LOD	4.37	<LOD	477.47	<LOD	6.71
11-Apr-12	163	23.2	embree 5434	217	NA	1	2	0			217	9	<LOD	20	<LOD	61	173	10	<LOD	95	<LOD	303	<LOD	29	<LOD	12	7620	134	23	7	<LOD	48	<LOD	128	<LOD	0	232	33	15	3	24	2	<LOD	92	<LOD	4	<LOD	85	76	3	1396	317	123	4
11-Apr-12	164	24.76	embree 5434	217	NA	1	2	0			334	12	<LOD	25	<LOD	65	234	12	<LOD	107	<LOD	316	<LOD	31	<LOD	14	10386	169	<LOD	23	<LOD	51	207	52	<LOD	0	273	37	11	3	35	2	<LOD	100	<LOD	5	<LOD	93	121	4	2267	360	191	4
11-Apr-12	165	22.97	embree 5434	217	NA	1	2	2			213	9	<LOD	19	<LOD	63	152	9	<LOD	91	<LOD	321	<LOD	30	<LOD	11	8662	145	<LOD	22	<LOD	49	<LOD	135	<LOD	0	223	33	<LOD	9	37	2	<LOD	99	<LOD	4	<LOD	91	83	3	1630	338	185	4
11-Apr-12	166	23.84	embree 5434	217	NA	1	2	2			200	10	<LOD	23	<LOD	74	139	10	<LOD	110	<LOD	361	<LOD	36	<LOD	14	9279	175	<LOD	25	<LOD	58	204	55	<LOD	0	283	41	<LOD	11	37	3	<LOD	118	<LOD	6	<LOD	108	82	4	1676	387	203	5
11-Apr-12	167	23.68	embree 5434	217	NA	1	2	2			233	11	<LOD	24	<LOD	72	147	10	<LOD	118	<LOD	356	<LOD	35	<LOD	15	10858	190	<LOD	26	<LOD	56	248	59	<LOD	0	223	38	12	4	39	3	<LOD	111	<LOD	6	<LOD	103	91	4	2300	400	221	5
11-Apr-12	168	22.52	embree 5434	217	NA	3	2	30			544	14	<LOD	29	<LOD	61	452	15	<LOD	102	<LOD	308	<LOD	29	<LOD	14	8138	135	23	7	<LOD	47	<LOD	128	<LOD	0	241	33	<LOD	9	21	2	<LOD	95	<LOD	4	<LOD	87	62	3	979	306	161	4
11-Apr-12	169	23.15	embree 5434	217	NA	3	2	30			488	15	<LOD	31	<LOD	68	629	19	<LOD	101	<LOD	336	<LOD	32	<LOD	15	8196	149	40	9	<LOD	53	<LOD	142	<LOD	0	297	38	<LOD	10	30	2	<LOD	107	<LOD	5	<LOD	98	71	3	2257	375	181	4
11-Apr-12	170	21.27	embree 5434	217	NA	3	2	30			266	8	<LOD	18	<LOD	52	270	10	<LOD	78	<LOD	212	<LOD	22	<LOD	11	4975	87	<LOD	17	<LOD	40	118	30	<LOD	0	178	25	<LOD	7	14	1	<LOD	80	<LOD	3	<LOD	74	39	2	1112	231	105	3
11-Apr-12	171	24.14	embree 5434	217	NA	3	2	2			252	9	<LOD	20	<LOD	61	175	9	<LOD	91	<LOD	290	<LOD	26	<LOD	11	4978	100	<LOD	20	<LOD	47	<LOD	101	<LOD	0	133	27	<LOD	9	23	2	<LOD	96	<LOD	4	<LOD	87	50	2	975	291	142	4
11-Apr-12	172	22.25	embree 5434	217	NA	3	2	2			285	10	<LOD	21	<LOD	58	180	9	<LOD	80	<LOD	261	<LOD	25	<LOD	12	5287	100	<LOD	18	<LOD	45	117	34	<LOD	0	131	26	<LOD	8	19	2	<LOD	91	<LOD	4	<LOD	84	59	3	<LOD	764	144	3
11-Apr-12	173	22.01	embree 5434	217	NA	3	2	2			251	9	<LOD	19	<LOD	57	178	9	<LOD	85	<LOD	256	<LOD	25	<LOD	11	5097	96	<LOD	17	<LOD	44	154	33	<LOD	0	187	27	9	3	20	2	<LOD	88	<LOD	4	<LOD	82	53	2	1093	267	140	3
11-Apr-12	174	23.72	embree 5434	217	NA	3	3	2			431	15	<LOD	31	<LOD	72	483	18	<LOD	120	<LOD	359	<LOD	35	<LOD	14	10381	184	34	9	<LOD	56	<LOD	168	<LOD	0	389	45	<LOD	10	32	2	<LOD	114	<LOD	5	<LOD	104	81	4	1871	389	168	5
11-Apr-12	175	23.47	embree 5434	217	NA	3	3	2			396	14	<LOD	30	<LOD	72	402	16	<LOD	120	<LOD	392	<LOD	39	<LOD	15	12129	201	<LOD	24	<LOD	56	187	60	<LOD	0	412	46	11	4	39	3	<LOD	113	<LOD	5	<LOD	104	90	4	2242	420	224	5
11-Apr-12	176	23.2	embree 5434	217	NA	3	3	2			320	12	<LOD	26	<LOD	70	373	15	<LOD	113	<LOD	387	<LOD	34	<LOD	14	10520	177	<LOD	25	<LOD	54	178	54	<LOD	0	398	43	<LOD	10	38	2	<LOD	111	<LOD	5	<LOD	102	85	4	1869	400	237	5
11-Apr-12	177	24.01	embree 5434	176	NA	1	1	0			386	15	<LOD	31	<LOD	75	417	18	<LOD	122	<LOD	358	<LOD	38	<LOD	15	11446	207	30	10	<LOD	59	204	62	<LOD	0	285	43	17	4	28	2	<LOD	115	<LOD	6	<LOD	107	119	4	1185	374	165	5
11-Apr-12	178	23.53	embree 5434	176	NA	1	1	0			302	12	<LOD	26	<LOD	72	203	12	<LOD	115	<LOD	377	<LOD	34	<LOD	13	10843	187	<LOD	25	<LOD	56	208	57	<LOD	0	352	43	12	4	35	2	<LOD	115	<LOD	5	<LOD	104	138	4	2491	418	233	5
11-Apr-12	179	23.19	embree 5434	176	NA	1	1	0			423	14	<LOD	29	<LOD	68	326	14	<LOD	117	<LOD	331	<LOD	35	<LOD	15	12016	191	45	9	<LOD	53	304	59	<LOD	0	337	41	11	3	25	2	<LOD	105	<LOD	5	<LOD	97	225	5	1814	362	172	4
11-Apr-12	180	21.94	embree 5434	176	NA	1	1	2			217	8	<LOD	18	<LOD	56	172	9	<LOD	90	<LOD	268	<LOD	27	<LOD	11	7959	125	<LOD	18	<LOD	44	209	41	<LOD	0	229	30	11	3	30	2	<LOD	87	<LOD	4	<LOD	80	102	3	1437	286	172	4
11-Apr-12	181	25	embree 5434	176	NA	1	1	2			272	11	<LOD	24	<LOD	69	218	12	<LOD	117	<LOD	323	<LOD	34	<LOD	14	10696	180	<LOD	24	<LOD	54	<LOD	163	<LOD	0	325	41	<LOD	10	37	2	<LOD	109	<LOD	5	<LOD	99	111	4	2337	375	210	5
11-Apr-12	182	23.99	embree 5434	176	NA	1	1	2			253	9	<LOD	21	<LOD	60	195	10	<LOD	102	<LOD	292	<LOD	29	<LOD	12	8662	139	23	7	<LOD	47	164	44	<LOD	0	233	32	<LOD	9	36	2	<LOD	94	<LOD	4	<LOD	87	94	3	1053	297	188	4
11-Apr-12	183	23.2	embree 5434	176	NA	1	2	0			269	11	<LOD	23	<LOD	66	218	11	<LOD	115	<LOD	346	<LOD	34	<LOD	15	11809	186	34	9	<LOD	52	<LOD	163	<LOD	0	426	43	12	3	38	2	<LOD	103	<LOD	5	<LOD	96	116	4	1790	368	206	5
11-Apr-12	184	23.76	embree 5434	176	NA	1	2	0			265	11	<LOD	23	<LOD	70	181	11	<LOD	103	<LOD	328	<LOD	36	<LOD	13	8692	163	<LOD	24	<LOD	55	222	53	<LOD	0	222	37	<LOD	11	30	2	<LOD	110	<LOD	5	<LOD	101	115	4	1332	349	178	5
11-Apr-12	185	22.46	embree 5434	176	NA	1	2	0			273	10	<LOD	21	<LOD	60	223	10	<LOD	104	<LOD	305	<LOD	32	<LOD	12	9696	150	<LOD	20	<LOD	47	237	47	<LOD	0	257	34	<LOD	9	38	2	<LOD	94	<LOD	4	<LOD	86	120	4	1360	316	193	4
11-Apr-12	186	23.33	embree 5434	176	NA	3	1	30			405	13	<LOD	29	<LOD	68	190	11	<LOD	113	<LOD	321	<LOD	33	<LOD	17	9166	161	<LOD	23	<LOD	53	157	50	<LOD	0	458	44	11	3	44	3	<LOD	107	<LOD	4	<LOD	98	89	3	2124	363	236	5
11-Apr-12	187	22.56	embree 5434	176	NA	3	1	30			330	11	<LOD	23	<LOD	64	138	9	<LOD	102	<LOD	294	<LOD	27	<LOD	12	7482	131	<LOD	22	<LOD	49	<LOD	126	<LOD	0	252	33	<LOD	9	37	2	<LOD	99	<LOD	5	<LOD	91	79	3	2366	340	210	4
11-Apr-12	188	22.4	embree 5434	176	NA	3	1	30			261	10	<LOD	21	<LOD	59	119	8	<LOD	86	<LOD	286	<LOD	26	<LOD	11	6598	116	<LOD	20	<LOD	46	136	38	<LOD	0	228	31	9	3	29	2	<LOD	92	<LOD	4	<LOD	85	68	3	1625	307	171	4
11-Apr-12	189	23.38	embree 5434	176	NA	3	3	30			175	9	<LOD	20	<LOD	68	133	9	<LOD	103	<LOD	339	<LOD	31	<LOD	14	9883	170	<LOD	22	<LOD	53	170	52	<LOD	0	215	36	<LOD	10	35	2	<LOD	108	<LOD	5	<LOD	99	71	3	2194	378	215	5
11-Apr-12	190	22.86	embree 5434	176	NA	3	3	30			163	8	<LOD	18	<LOD	64	130	9	<LOD	110	<LOD	299	<LOD	29	<LOD	12	9047	150	<LOD	21	<LOD	50	197	48	<LOD	0	162	31	<LOD	9	28	2	<LOD	100	<LOD	4	<LOD	93	69	3	1468	321	181	4
11-Apr-12	191	24.48	embree 5434	176	NA	3	3	30			155	8	<LOD	18	<LOD	66	114	8	<LOD	108	<LOD	330	<LOD	31	<LOD	12	9174	154	<LOD	20	<LOD	51	<LOD	141	<LOD	0	230	34	14	3	43	2	<LOD	105	<LOD	4	<LOD	95	90	3	2528	373	221	5
11-Apr-12	192	23.2	stroh 5434		5861						46	6	59	6	<LOD	79	133	14	678	74	<LOD	365	1002	41	<LOD	16	14754	237	2677	55	88	20	275	69	<LOD	0	258	46	17	4	20	2	<LOD	126	<LOD	5	<LOD	115	119	4	<LOD	1082	86	4
11-Apr-12	193	24.74	stroh 5434		2586						458	16	<LOD	33	<LOD	80	325	16	308	75	<LOD	585	<LOD	64	<LOD	18	51080	629	73	12	<LOD	63	861	130	<LOD	0	795	74	<LOD	12	46	3	<LOD	129	<LOD	6	<LOD	119	81	4	8939	724	239	6
11-Apr-12	194	24.15	stroh 5434		2710						5576	81	686	43	<LOD	83	6868	103	<LOD	217	<LOD	610	<LOD	63	56	14	37153	519	2678	61	<LOD	66	465	117	<LOD	0	9261	222	22	4	122	5	<LOD	128	<LOD	14	<LOD	119	318	8	2926	627	108	5
11-Apr-12	195	24.87	stroh 5434		2711						1227	26	67	18	<LOD	77	314	15	<LOD	150	<LOD	483	<LOD	46	<LOD	21	25760	353	65	12	<LOD	60	488	90	<LOD	0	542	57	<LOD	11	114	4	<LOD	119	<LOD	8	<LOD	111	246	6	2104	490	223	5
11-Apr-12	196	15	stroh 5434		4315						258	11	<LOD	23	<LOD	68	788	22	<LOD	113	<LOD	302	<LOD	26	<LOD	16	2418	76	124	12	<LOD	54	<LOD	81	<LOD	0	574	46	12	3	9	2	<LOD	108	<LOD	5	<LOD	99	266	6	<LOD	799	38	3
11-Apr-12	197	23.1	stroh 5434		blank						<LOD	9	<LOD	6	<LOD	65	<LOD	10	<LOD	75	<LOD	219	<LOD	22	<LOD	11	<LOD	44	<LOD	18	<LOD	50	<LOD	29	<LOD	0	<LOD	47	<LOD	9	<LOD	4	<LOD	101	<LOD	3	<LOD	94	<LOD	4	<LOD	611	<LOD	6
12-Apr-12	1	53.44																																																			
12-Apr-12	1	48.14																																																			
12-Apr-12	1	54.97																																																			
12-Apr-12	2	19.43	wilder_5420		2586						442.37	16.68	<LOD	36.4	<LOD	82.79	340.06	17.5	441.78	98.58	<LOD	1392.1	72.94	23.14	<LOD	20.08	50449.71	667.74	72.28	12.7	79.04	19.54	<LOD	404.27	<LOD	0	838.02	82.23	<LOD	12.84	53.64	3.49	<LOD	134.54	<LOD	6.35	<LOD	130.1	82.28	4.09	4529.77	488.7	256.78	6.51
12-Apr-12	2	22.98	wilder 5434		5861						55	6	47	6	<LOD	78	145	14	952	82	<LOD	372	928	40	<LOD	14	15097	237	2800	55	98	20	463	71	<LOD	0	233	46	15	3	25	2	<LOD	126	7	2	<LOD	115	117	4	<LOD	1137	61	3
12-Apr-12	2	20.16	jackson 5444		NIST 2586						423.7	15.93	5.04	9.63	40.22	26.98	351.93	17.38	226.5	88.34	ND		50.04	22.69	-1.75	5.57	48333.59	634.95	82.12	12.97	-0.69	20.74	333.2	126.09	ND		708.79	76.34	4.01	4.14	52.6	3.35	48.93	43.62	-0.85	1.95	76.47	39.25	80.98	3.99	5447.89	553.94	255.68	6.34
12-Apr-12	3	19.65	wilder_5420		2710						5621.02	85.34	628.18	47.56	<LOD	84.23	6959.93	110.71	<LOD	278.91	<LOD	1291.82	<LOD	69.36	63.15	16.07	38423.69	563.89	2994.74	69.2	<LOD	60.35	<LOD	367.58	<LOD	0	9468.32	237.43	26.74	4.62	124.17	5.58	<LOD	132.79	<LOD	15.51	<LOD	129.38	327.35	8.47	1792.14	409.2	108.55	5.33
12-Apr-12	3	22.5	wilder 5434		2710						6011	90	687	47	<LOD	90	7409	114	<LOD	253	<LOD	666	<LOD	72	90	17	39393	570	2867	66	89	24	464	127	<LOD	0	10020	244	35	4	134	5	<LOD	144	<LOD	16	<LOD	133	342	8	3030	681	111	5
12-Apr-12	3	19.79	jackson 5444		PES 5861						65.23	6.67	50.33	5.35	86.44	26.01	138.37	14.17	887.28	93.36	ND		955.66	40.2	2.55	5.26	14471.75	239.88	3122.94	63	107.75	19.79	111.56	66.34	ND		109	43.92	2.74	3.6	27.03	2.43	107.5	42.24	7.24	2.02	123.82	37.79	115.7	4.32	441.87	310.71	58.41	3.59
12-Apr-12	4	19.93	wilder_5420		2711						1201.12	27.54	67.22	19.58	<LOD	77.08	339.07	16.81	<LOD	177.05	<LOD	1043.94	<LOD	51.24	<LOD	21.08	25414.88	373.03	114.66	13.54	<LOD	54.19	<LOD	285.82	<LOD	0	380.36	55.85	<LOD	12.12	113.91	4.65	<LOD	121.2	<LOD	7.28	<LOD	118.55	242.03	6.5	1236.96	330.11	238.32	6.2
12-Apr-12	4	23.21	wilder 5434		2586						474	17	<LOD	34	<LOD	80	343	16	321	78	<LOD	626	<LOD	72	<LOD	18	50666	634	48	12	<LOD	64	937	132	<LOD	0	781	75	<LOD	12	45	3	<LOD	129	<LOD	7	<LOD	120	93	4	7156	716	245	6
12-Apr-12	4	18.88	jackson 5444		nist2710						5666.4	89.23	633.22	40.73	93.77	29.31	7125.91	116.69	232.85	104.98	ND		-18.41	21.6	55.83	15.68	37028.94	566.62	3089.8	73.33	-46.88	23.33	-102.87	119.72	ND		9357.66	244.96	11.11	4.56	139.7	6.05	87.33	48.22	-6.37	5.16	198.59	44.08	347.67	9.1	2420.49	527.6	119.08	5.59
12-Apr-12	5	20.11	wilder_5420		4315						287.63	11.82	<LOD	27.03	<LOD	69.69	896.33	25.33	<LOD	136.83	<LOD	714.27	<LOD	24.94	<LOD	13.99	2707.86	87.39	122.75	12.66	<LOD	49.32	<LOD	88.59	<LOD	0	727.11	53.92	<LOD	10.45	9.38	1.88	<LOD	109.8	<LOD	4.42	<LOD	105.5	280.44	6.45	<LOD	590.63	32.29	3.41
12-Apr-12	5	24.18	wilder 5434		4315						279	11	<LOD	23	<LOD	67	843	22	<LOD	106	<LOD	287	<LOD	24	<LOD	14	2708	77	95	10	<LOD	52	<LOD	84	<LOD	0	623	45	<LOD	9	9	2	<LOD	109	<LOD	5	<LOD	99	277	6	<LOD	804	36	3
12-Apr-12	5	16.55	jackson 5444		nist 2711						1133.33	29.25	115.24	17.6	30.24	29.11	309.66	17.62	111.52	77.84	ND		-4.85	17.55	15.07	8.03	24382.62	397.16	99.9	14.44	40.86	22.41	176.01	97.15	ND		388.43	62.97	3.01	4.41	110.65	5.01	8.33	47.34	3.89	2.99	106.12	43.19	243.67	7.2	2023.33	455.58	253.36	6.97
12-Apr-12	6	20.62	wilder_5420		5861						49.47	6.09	40.77	5.62	<LOD	76.39	135.02	14.74	941.19	94.97	<LOD	774.1	952.85	40.41	<LOD	16.66	15015.27	245.38	2673.26	56.96	71.89	17.69	<LOD	205.55	<LOD	0	276.64	49.35	<LOD	10.98	17.61	2.17	<LOD	125.21	<LOD	5.4	135.37	39.91	116.15	4.29	<LOD	739.2	87.02	3.97
12-Apr-12	6	23.12	wilder 5434		2711						1224	27	80	18	<LOD	78	346	16	<LOD	158	<LOD	508	<LOD	51	24	8	25446	357	66	12	<LOD	61	457	91	<LOD	0	437	55	<LOD	11	101	4	<LOD	127	<LOD	8	<LOD	115	252	6	2796	528	238	6
12-Apr-12	6	19.48	jackson 5444		BLANK						0.65	2.88	0.8	1.66	33.42	21.47	11.79	3.96	41.03	35.01	ND		2.83	6.67	3.85	4.11	65.8	17.23	7.35	6.04	1.23	16.2	-19.3	8.91	ND		-15.66	16.91	1.8	2.96	0.11	1.17	7.57	33.53	-0.08	1.1	64.43	30.8	0.26	1.41	79.26	173.3	-7.03	2.01
12-Apr-12	7	20.29	wilder_5420		Blank						<LOD	9.27	<LOD	6.03	<LOD	63.8	<LOD	9.87	<LOD	96.49	<LOD	551.14	<LOD	20.43	<LOD	11.37	63.94	19.04	<LOD	16.16	<LOD	44.06	<LOD	31.19	<LOD	0	<LOD	46.5	<LOD	9.02	<LOD	3.45	<LOD	100.53	<LOD	3.48	<LOD	96.88	<LOD	4.58	<LOD	456.32	<LOD	6.35
12-Apr-12	7	24.26	wilder 5434		blank						<LOD	8	<LOD	5	<LOD	60	<LOD	10	<LOD	69	<LOD	201	<LOD	19	<LOD	11	<LOD	46	<LOD	16	<LOD	47	<LOD	27	<LOD	0	<LOD	43	<LOD	8	<LOD	3	<LOD	94	<LOD	3	<LOD	86	<LOD	4	<LOD	572	<LOD	6
12-Apr-12	7	19.41	jackson 5444		PES4315						253.25	10.77	19.98	6.88	71.38	23.75	823.8	23.37	39.96	45.44	ND		-14.87	8.27	-1.99	4.96	2639.06	81.87	102.43	11.43	66.97	18.11	60.88	29.96	ND		444	44.1	9.49	3.4	11.46	1.85	-35.44	38.91	2.31	1.69	93.65	35.32	273.01	6.19	105.46	249.94	50.98	3.49
12-Apr-12	8	56.51																																																			
12-Apr-12	8	45.62																																																			
12-Apr-12	8	21.28	embree 5444	222	NA	1	2	0			113.77	8.22	12.3	5.33	-25.79	24.98	217.39	13.04	-50.52	45.95	ND		5.43	11.77	-4.59	4.59	7848.65	164.61	2.05	7.66	-32.27	19.34	70.16	50.57	ND		243.21	41.65	-4.3	3.77	37.33	2.77	8.5	41.1	-2.37	1.35	149.03	37.18	114.08	4.38	671.56	298.41	201.06	5.46
12-Apr-12	9	18.68	wilder_5420	221	NA	1	2	0			83.7	7.12	<LOD	16.53	<LOD	73.46	113.06	9.44	<LOD	188.59	1265.56	350.64	<LOD	42.77	<LOD	12.86	19148.02	283.25	<LOD	25.25	<LOD	50.59	<LOD	226.39	<LOD	0	370.15	50.07	<LOD	11.75	68.26	3.39	<LOD	118.76	<LOD	4.87	<LOD	114.92	151.1	4.76	1778.34	335.66	365.52	7.03
12-Apr-12	9	23.19	counihan_5434	222	NA	su3	1	30in			62	6	<LOD	13	<LOD	71	75	8	<LOD	131	<LOD	418	<LOD	37	<LOD	16	13230	209	<LOD	24	<LOD	56	189	61	<LOD	0	467	47	<LOD	11	55	3	<LOD	112	<LOD	4	<LOD	105	103	4	2802	448	336	6
12-Apr-12	9	22.38	embree 5444	222	NA	1	2	0			110.31	8.79	-2.53	5.3	-16.81	27.15	273.5	15.67	-0.13	51.44	ND		10.4	12.84	6.15	5.93	8009.59	179.38	10.38	8.92	-1.05	21.08	36	54.15	ND		21.29	32.98	-4.36	4.04	28.92	2.74	-16.63	44.73	0.12	1.68	41.29	40.5	144.93	5.28	1707.64	344.67	170.32	5.54
12-Apr-12	10	20.76	wilder_5420	221	NA	1	2	0			85.3	7.18	<LOD	16.83	<LOD	73.71	118.82	9.73	<LOD	180.78	1016.44	328.67	<LOD	45.34	<LOD	15.27	16981.62	262.34	<LOD	26.72	<LOD	51.12	<LOD	216.18	<LOD	0	446.81	51.84	<LOD	11.69	57.78	3.18	<LOD	120.84	<LOD	4.58	<LOD	114.78	131.75	4.49	1274.92	310.29	309.21	6.46
12-Apr-12	10	23.11	counihan_5434	222	NA	su3	1	30in			47	6	<LOD	12	<LOD	69	61	7	<LOD	118	<LOD	383	<LOD	33	<LOD	13	10513	177	<LOD	23	<LOD	54	161	54	<LOD	0	578	49	12	4	50	3	<LOD	109	<LOD	4	<LOD	101	107	4	3785	448	455	7
12-Apr-12	10	22.31	embree 5444	222	NA	1	2	0			90.5	7.84	8.22	5.01	14.58	25.5	192.96	12.88	-10.16	46.41	ND		18.36	12.42	-11.02	3.99	6360.83	151.42	33.74	9.8	-118.32	19.72	45.24	47.49	ND		208.13	40.49	3.82	3.94	24.21	2.5	28.39	40.99	0.34	1.58	83.85	37.58	133.93	4.91	1927.68	327.17	126.57	4.79
12-Apr-12	11	21.88	wilder_5420	221	NA	1	2	0			80.95	7.27	<LOD	16.64	<LOD	74.01	135.14	10.53	<LOD	176.46	<LOD	950.09	<LOD	42.16	<LOD	13.91	17517.57	276.76	<LOD	23.87	<LOD	52.08	<LOD	223	<LOD	0	464.12	53.78	<LOD	11.88	58.93	3.31	<LOD	119.45	<LOD	4.71	<LOD	115.81	121.05	4.45	2136.91	329.71	245.94	5.95
12-Apr-12	11	23.47	counihan_5434	222	NA	su3	1	30in			75	6	<LOD	13	<LOD	65	58	7	<LOD	108	<LOD	332	<LOD	31	<LOD	12	10349	172	<LOD	23	<LOD	52	183	53	<LOD	0	729	52	16	3	42	2	<LOD	98	<LOD	4	<LOD	93	109	4	2666	384	214	5
12-Apr-12	11	19.83	embree 5444	222	NA	1	2	2			102.04	6.68	0.04	4.09	0.43	20.37	143.37	9.21	75.09	44.51	ND		-14.19	8.7	-0.07	4.05	6484.39	125.26	21.37	7.16	-203.06	15.61	120.35	40.64	ND		270.89	36.18	1.89	3.23	27.87	2.11	-36.79	32.09	-1.2	1.18	6.84	29.21	64.7	2.93	1243.37	268.97	181.18	4.4
12-Apr-12	12	21.22	wilder_5420	221	NA	1	2	2			57.16	6.26	<LOD	13.73	<LOD	72.83	91.72	8.79	<LOD	170.22	<LOD	909.95	<LOD	43.86	<LOD	14.45	15241.92	244.95	<LOD	25.91	<LOD	50.74	<LOD	206.91	<LOD	0	425.16	50.37	<LOD	11.59	55.96	3.15	<LOD	119.67	<LOD	4.28	<LOD	114.69	116.08	4.25	1416.8	299.1	292.87	6.3
12-Apr-12	12	25.43	counihan_5434	222	NA	su3	1	2			66	7	<LOD	15	<LOD	74	83	8	<LOD	120	<LOD	403	<LOD	37	<LOD	15	9806	183	<LOD	23	<LOD	59	<LOD	168	<LOD	0	448	48	12	4	41	3	<LOD	118	<LOD	5	<LOD	110	95	4	2510	441	269	6
12-Apr-12	12	19.91	embree 5444	222	NA	1	2	2			148.99	8.4	6.02	5.26	-22.77	22.28	212.13	11.77	-26.76	44.85	ND		30.93	11.97	1.48	4.63	10281.01	177.17	29	8.39	-96.39	17.23	-45.26	50.02	ND		388.43	44.33	1.48	3.52	45.87	2.71	36.44	36.32	-0.92	1.39	76.68	32.84	90.13	3.59	1865.54	319.6	249.16	5.45
12-Apr-12	13	21.4	wilder_5420	221	NA	1	2	2			50.45	6.02	18.74	4.98	<LOD	72.91	118.33	9.78	<LOD	172.33	<LOD	974.99	<LOD	40.76	<LOD	14.36	16531.1	260.15	<LOD	26.05	<LOD	50.6	<LOD	219.35	<LOD	0	446.36	51.86	<LOD	11.66	55.94	3.17	<LOD	116.93	<LOD	3.63	<LOD	112.51	151.77	4.84	1497.18	314.58	261.93	6.03
12-Apr-12	13	24.76	counihan_5434	222	NA	su3	1	2			64	6	<LOD	13	<LOD	66	53	6	<LOD	110	<LOD	351	<LOD	30	<LOD	12	8790	154	<LOD	21	<LOD	52	<LOD	143	<LOD	0	398	41	14	3	36	2	<LOD	104	<LOD	4	<LOD	96	95	3	1974	373	291	5
12-Apr-12	13	19.65	embree 5444	222	NA	1	2	2			146.39	8.04	-0.75	4.9	-28.07	21.26	191.73	10.81	54.34	45.53	ND		17.06	10.66	-9.32	3.51	7569.64	141.49	20.77	7.54	-131	16.43	44.94	43.28	ND		420.22	42.95	-1	3.33	32.64	2.3	14.25	34.67	0.69	1.41	-11.51	31.03	70.85	3.13	1145.2	273.11	208.45	4.82
12-Apr-12	14	20.67	wilder_5420	221	NA	1	2	2			50.42	5.77	<LOD	13.39	<LOD	68.89	123.41	9.52	<LOD	170.76	<LOD	831.12	<LOD	39.07	<LOD	13.61	15988.59	243.44	<LOD	23.77	<LOD	48.28	<LOD	205.39	<LOD	0	334.96	45.83	<LOD	11.23	52.42	2.95	<LOD	112.92	<LOD	4.05	<LOD	107.09	120.91	4.17	1196.96	273.68	261.48	5.73
12-Apr-12	14	25.11	counihan_5434	222	NA	su3	1	2			51	6	<LOD	12	<LOD	66	74	7	<LOD	99	<LOD	341	<LOD	27	<LOD	12	7898	145	<LOD	20	<LOD	52	<LOD	133	<LOD	0	402	41	14	3	32	2	<LOD	101	<LOD	4	<LOD	94	72	3	1650	357	194	4
12-Apr-12	14	19.72	embree 5444	222	NA	1	2	4			75.71	6.24	-0.16	3.79	-2.96	22.01	82.89	7.63	44.44	45.16	ND		-13.05	9.1	-5.08	3.83	6582.26	131.39	11.19	7.06	-97.54	16.78	72.1	41.74	ND		232.55	36.27	-2.91	3.42	39.37	2.49	-37.02	35.44	1.52	1.45	24.07	31.85	79.63	3.32	1663.41	296.99	277.46	5.6
12-Apr-12	15	20.62	wilder_5420	221	NA	1	2	4			50.87	5.94	<LOD	13.48	<LOD	70.1	113.33	9.54	<LOD	142.52	<LOD	805.1	<LOD	38.21	<LOD	13.78	11521.28	203.41	<LOD	24.67	<LOD	48.92	<LOD	176.65	<LOD	0	259.95	41.98	<LOD	11.28	34.2	2.61	<LOD	109.31	<LOD	3.51	<LOD	106.43	93.42	3.85	1137.41	269.57	188.61	5.1
12-Apr-12	15	24.26	counihan_5434	222	NA	su3	3	30in			130	7	<LOD	16	<LOD	64	172	10	<LOD	104	<LOD	342	<LOD	29	<LOD	13	8122	138	<LOD	19	<LOD	49	<LOD	129	<LOD	0	189	31	<LOD	9	38	2	<LOD	101	<LOD	5	<LOD	92	81	3	3495	397	192	4
12-Apr-12	15	19.28	embree 5444	222	NA	1	2	4			92.42	6.7	1.76	4.13	-7.59	21.76	100.94	8.26	26.64	45.92	ND		18.31	10.77	5.37	4.68	8289.41	150.56	13.09	7.29	-66.9	16.88	-17.02	44.41	ND		313.38	40.02	-1.9	3.42	42.57	2.56	-5.28	35.63	-0.68	1.32	16.14	32.4	79.24	3.31	1820.29	314.19	284.08	5.65
12-Apr-12	16	21.35	wilder_5420	221	NA	1	2	4			47.41	5.81	<LOD	13.34	<LOD	71.15	89.29	8.57	<LOD	160.46	<LOD	818.86	<LOD	37.27	<LOD	13.5	13693.36	225.14	<LOD	24.84	<LOD	49.9	<LOD	192.86	<LOD	0	293	44.19	<LOD	11.45	51.6	3.01	<LOD	115.97	<LOD	4.3	<LOD	111.34	112.87	4.14	1256.77	275.3	224.35	5.47
12-Apr-12	16	23.16	counihan_5434	222	NA	su3	3	30in			74	6	<LOD	14	<LOD	70	109	9	<LOD	116	<LOD	356	<LOD	36	<LOD	12	10371	175	<LOD	23	<LOD	54	<LOD	159	<LOD	0	244	37	15	4	43	3	<LOD	112	<LOD	4	<LOD	102	86	3	3289	419	242	5
12-Apr-12	16	19.93	embree 5444	222	NA	1	2	4			92.19	6.71	2.01	4.15	24.09	22.01	95.64	8.12	-45.1	40.49	ND		9.45	10.05	0.99	4.35	6625.76	132.26	16.72	7.41	-106.11	16.8	8.76	40.7	ND		199.62	34.74	-9.1	3.34	40.12	2.51	22.14	35.3	-1.79	1.22	18.81	32.23	64.11	3.05	836.75	276.63	244.99	5.27
12-Apr-12	17	20.95	wilder_5420	221	NA	1	2	4			68.69	6.44	<LOD	14.41	<LOD	70.08	92.22	8.51	<LOD	172.32	<LOD	799.8	<LOD	38.3	<LOD	14.64	14461.18	228.66	<LOD	24.54	<LOD	48.48	<LOD	192.36	<LOD	0	369.55	46.6	<LOD	11.11	61.53	3.17	<LOD	113.81	<LOD	4.2	<LOD	108.56	123.12	4.22	1781.04	283.63	264.28	5.8
12-Apr-12	17	22.1	counihan_5434	222	NA	su3	1	30in			82	6	<LOD	12	<LOD	57	115	7	<LOD	77	<LOD	225	<LOD	24	<LOD	10	4557	90	<LOD	17	<LOD	44	140	32	<LOD	0	91	23	11	3	26	2	<LOD	89	<LOD	4	<LOD	81	67	3	786	238	150	3
12-Apr-12	17	18.52	embree 5444	222	NA	1	2	6			60.43	5.39	9.57	3.52	2.98	20.82	68.65	6.67	-54.19	37.47	ND		-9.97	8.44	-3.08	3.75	6189.9	119.57	1.86	6.1	-107.68	15.74	41.88	37.78	ND		372.25	38.68	5.89	3.28	37.75	2.31	17.17	33.04	-0.29	1.23	26.45	30	68.37	2.94	764.7	258.39	264.3	5.14
12-Apr-12	18	22.37	wilder_5420	221	NA	1	2	6			59.52	6.6	<LOD	15.39	<LOD	74.48	98.89	9.39	<LOD	161.66	<LOD	947.04	<LOD	41.25	<LOD	16.21	13470.49	235.03	<LOD	23.27	<LOD	52.42	<LOD	202.63	<LOD	0	214.64	43.26	<LOD	12.04	47.45	3.08	<LOD	122.23	<LOD	4.47	<LOD	116.89	106.93	4.27	1343.48	308.86	228.8	5.82
12-Apr-12	18	23.44	counihan_5434	221	NA	su3	4	30in			74	6	<LOD	13	<LOD	66	153	10	<LOD	104	<LOD	306	<LOD	31	<LOD	14	6062	124	<LOD	21	<LOD	52	201	43	<LOD	0	135	30	<LOD	10	32	2	<LOD	103	<LOD	4	<LOD	95	57	3	1189	320	156	4
12-Apr-12	18	18.47	embree 5444	222	NA	1	2	6			57.65	5.21	0.19	3.17	34.65	20.25	60.5	6.27	-34.67	34.97	ND		-4.53	8.21	-5.52	3.46	5076.04	105.21	6.59	6.23	-115.18	15.49	18.34	33.78	ND		217.38	31.91	0.35	3.18	36.98	2.26	-15.84	32.56	-2.15	1.05	26.07	29.14	70.78	2.94	1003.16	232.73	250.92	4.95
12-Apr-12	19	20.56	wilder_5420	221	NA	1	2	6			67.89	6.16	<LOD	13.18	<LOD	66.64	88.06	8.02	<LOD	157.05	<LOD	808.55	<LOD	34.43	<LOD	12.77	12679.15	201.86	<LOD	21.5	<LOD	46.78	<LOD	176.44	<LOD	0	290.9	41.44	<LOD	10.66	45.07	2.7	<LOD	107.13	<LOD	4.08	<LOD	103.22	113.91	3.92	1218.92	265.19	240.79	5.33
12-Apr-12	19	24.27	counihan_5434	221	NA	su3	4	30in			51	5	<LOD	10	<LOD	56	78	6	<LOD	71	<LOD	213	<LOD	22	<LOD	11	3365	78	<LOD	16	<LOD	44	104	28	<LOD	0	<LOD	61	19	3	28	2	<LOD	86	<LOD	3	<LOD	79	63	3	<LOD	616	124	3
12-Apr-12	19	19.37	embree 5444	222	NA	1	2	6			86.55	6.52	3.31	4.06	-8.59	21.91	94.88	8.06	43.93	46.17	ND		-0.35	10.18	5.96	4.7	8738.35	155.35	22.41	7.68	-82.52	16.78	50.06	46.6	ND		283.06	38.97	-5.92	3.37	46.59	2.65	18.67	35.17	-1.48	1.25	79.98	32	78.34	3.29	2078.27	310.97	277.53	5.57
12-Apr-12	20	19.43	wilder_5420	221	NA	1	2	6			78.78	6.84	<LOD	15.07	<LOD	70.49	89.08	8.51	<LOD	157.94	<LOD	861.65	<LOD	38.97	<LOD	13.72	13763.29	223.73	<LOD	25.79	<LOD	49.18	<LOD	192.65	<LOD	0	329.32	45.21	<LOD	11.27	52.42	3.01	<LOD	115.5	<LOD	4.47	<LOD	109.97	130.17	4.38	1446.73	287.61	252.15	5.74
12-Apr-12	20	22.22	counihan_5434	221	NA	su3	4	30in			53	5	<LOD	10	<LOD	56	105	7	<LOD	63	<LOD	215	<LOD	22	<LOD	9	3818	81	<LOD	16	<LOD	43	120	29	<LOD	0	117	23	10	3	18	2	<LOD	86	<LOD	3	<LOD	79	40	2	<LOD	655	121	3
12-Apr-12	20	20.82	embree 5444	222	NA	3	2	30			33.57	5.09	6.98	3.29	14.97	23.07	79.14	7.95	39.33	51.91	ND		2.46	11.26	-0.45	4.46	10643.93	187.82	5	7.24	-97.07	17.9	41.1	54.05	ND		226.01	40.36	5.15	3.62	42.73	2.73	18.18	37.37	-0.64	1.33	66.09	33.7	115.07	4.14	2483.84	373.65	180.18	4.91
12-Apr-12	21	19.75	wilder_5420	224	NA	1	1	0			199.89	10.54	<LOD	24.2	<LOD	74.29	225.96	13.28	<LOD	186.92	<LOD	1014	<LOD	45.97	<LOD	14.94	20042.25	303.62	31.24	9.55	<LOD	52.21	<LOD	247.57	<LOD	0	719.83	62.83	<LOD	12	49.41	3.11	<LOD	118.52	<LOD	5.37	<LOD	114.08	250.61	6.37	1936.73	336.8	240.53	6.01
12-Apr-12	21	25.41	counihan_5434	221	NA	su3	3	30in			101	8	<LOD	16	<LOD	75	158	11	<LOD	120	<LOD	423	<LOD	35	<LOD	14	9663	180	<LOD	25	<LOD	59	220	57	<LOD	0	273	41	15	4	40	3	<LOD	119	<LOD	5	<LOD	109	96	4	1726	429	242	5
12-Apr-12	21	20.47	embree 5444	222	NA	3	2	30			44.02	5.34	7.17	3.45	30.5	22.68	59.43	6.97	40.43	48.07	ND		5.29	11.34	-8.63	3.57	9524.35	170.86	18.62	7.76	-137	17.24	129.42	51.66	ND		195.58	37.32	-0.05	3.47	36.65	2.52	-42.97	36.45	-1.55	1.21	-29.66	33.09	96.4	3.73	906.31	280.18	178.02	4.75
12-Apr-12	22	22.3	wilder_5420	224	NA	1	1	0			159.29	10.06	<LOD	23.26	<LOD	78.89	167.2	12.19	255.67	75.54	<LOD	1067.17	<LOD	44.9	<LOD	17.51	20756.85	328.47	<LOD	27.36	<LOD	55.41	<LOD	255.72	<LOD	0	804.83	69.39	<LOD	12.65	37.45	2.97	<LOD	127.27	<LOD	5.86	<LOD	122.47	256.8	6.81	2008.93	356.7	184.46	5.68
12-Apr-12	22	25.04	counihan_5434	221	NA	su3	4	30in			95	7	<LOD	16	<LOD	72	150	10	<LOD	131	<LOD	365	<LOD	37	<LOD	13	11606	194	<LOD	24	<LOD	56	205	58	<LOD	0	303	41	13	4	44	3	<LOD	114	<LOD	4	<LOD	105	90	4	2545	410	262	5
12-Apr-12	22	21.55	embree 5444	222	NA	3	2	30			39.32	5.34	1.13	3.24	-10.28	23.11	41.28	6.28	108.29	51.61	ND		-23.73	9.45	-3.03	4.18	7188.3	148	-3	6.59	-124.06	17.84	150.6	47.66	ND		100.59	33.12	2.12	3.6	38.09	2.63	72.49	36.89	0.23	1.38	85.95	33.3	97.94	3.87	806.18	276.28	168.74	4.8
12-Apr-12	23	21.79	wilder_5420	224	NA	1	1	0			187.45	10.37	<LOD	23.55	<LOD	74.15	209.18	12.96	<LOD	169.91	<LOD	988.02	<LOD	44.49	<LOD	15.72	20383.34	310.96	<LOD	27.72	<LOD	52.41	<LOD	246.6	<LOD	0	594.83	59.41	13.54	4.19	55.87	3.3	<LOD	119.5	<LOD	5.58	<LOD	114.46	202.16	5.76	2487.17	347.72	278	6.45
12-Apr-12	23	23.71	counihan_5434	221	NA	su3	4	30in			82	7	<LOD	16	<LOD	75	129	10	<LOD	137	<LOD	394	<LOD	36	<LOD	15	10976	195	<LOD	21	<LOD	58	183	59	<LOD	0	319	44	<LOD	11	49	3	<LOD	120	<LOD	4	<LOD	110	96	4	2339	429	249	6
12-Apr-12	23	21.16	embree 5444	222	NA	3	2	2			37.3	5.28	3.87	3.3	13.84	23.25	54.32	6.99	0.38	47.78	ND		8.44	11.87	1.3	4.61	10434.2	187.65	8.2	7.51	-137.95	17.88	79.34	54.81	ND		291.53	42.76	-8.43	3.53	42.13	2.75	65.21	37.51	-1.64	1.25	43.31	34.04	108.56	4.08	1355.43	305.77	188.42	5.06
12-Apr-12	24	22.42	wilder_5420	224	NA	1	1	2			145.58	10.64	<LOD	24.1	<LOD	86.21	177.96	13.86	<LOD	194.77	<LOD	1018.77	<LOD	43.77	<LOD	16.78	13440.88	269.47	<LOD	31.52	<LOD	60.39	<LOD	234.56	<LOD	0	607.48	66.05	<LOD	14.01	50	3.61	<LOD	137.44	<LOD	5.34	<LOD	132.8	95.2	4.66	1142.18	333.77	229.51	6.68
12-Apr-12	24	23.49	twellman_5434	224	NA	su3	1	30in			160	9	<LOD	20	<LOD	75	209	12	<LOD	121	<LOD	430	<LOD	41	<LOD	16	14270	231	<LOD	25	<LOD	59	293	68	<LOD	0	444	49	<LOD	12	48	3	<LOD	119	<LOD	5	<LOD	110	101	4	3912	496	388	7
12-Apr-12	24	21.55	embree 5444	222	NA	3	2	2			41.57	5.75	6.55	3.68	-21.29	24.76	52.97	7.26	95.97	57.57	ND		-4.69	11.74	-4.69	4.33	11478	208.93	4.23	7.68	-81.39	19.07	42.65	59.26	ND		273.42	45.15	-0.85	3.81	45.56	2.97	25.82	39.85	-0.95	1.39	30.22	36.01	117.55	4.43	1683.35	348.86	206.61	5.52
12-Apr-12	25	19.98	wilder_5420	224	NA	1	1	2			193.38	10.48	<LOD	24.07	<LOD	74.31	217.51	13.2	<LOD	193.74	<LOD	932.48	<LOD	44.88	<LOD	15.8	19806.82	304.46	<LOD	28.27	<LOD	52.82	<LOD	250.46	<LOD	0	640.25	61.02	<LOD	12.14	61.48	3.4	<LOD	122	<LOD	5	<LOD	115.82	104.06	4.2	2664.76	342.49	308.59	6.69
12-Apr-12	25	23.54	twellman_5434	224	NA	su3	1	30in			317	13	<LOD	28	<LOD	75	296	15	<LOD	133	<LOD	452	<LOD	40	<LOD	18	15966	251	<LOD	27	<LOD	59	<LOD	211	<LOD	0	549	54	<LOD	12	51	3	<LOD	120	<LOD	5	<LOD	109	157	5	3361	498	338	7
12-Apr-12	25	19.59	embree 5444	222	NA	3	2	2			43.12	5.3	2.29	3.25	23.8	22.75	56.14	6.74	31.73	49.84	ND		10.42	11.41	-3.39	4.07	11641.5	191.28	1.69	6.86	-55.18	17.39	12.08	53.81	ND		304.97	42.19	2.67	3.5	48.33	2.76	-32.3	37.18	1.11	1.44	86.55	33.7	131.32	4.23	1529.33	321.5	233.78	5.31
12-Apr-12	26	20.17	wilder_5420	224	NA	1	1	2			67.64	6.63	<LOD	16.03	<LOD	72.04	103.23	9.25	<LOD	151.88	<LOD	834.66	<LOD	33.6	<LOD	14.3	11286.92	202.5	<LOD	24.44	<LOD	50.16	<LOD	181.88	<LOD	0	629.1	55.54	<LOD	11.7	37.78	2.73	<LOD	114.68	<LOD	4.34	<LOD	110.85	91	3.84	1021.83	272.56	286.34	6.24
12-Apr-12	26	25.42	twellman_5434	224	NA	su3	1	30in			218	11	<LOD	23	<LOD	73	311	15	<LOD	127	<LOD	385	<LOD	36	<LOD	15	10312	188	<LOD	24	<LOD	57	230	58	<LOD	0	786	59	12	4	40	3	<LOD	113	<LOD	5	<LOD	106	86	4	1238	388	246	5
12-Apr-12	26	20.94	embree 5444	222	NA	3	2	4			38.56	5.17	2.11	3.18	0.57	22.79	54.88	6.85	12.43	46.84	ND		13.55	11.13	-2.2	4.19	8286.76	158.66	13.5	7.57	-138.41	17.46	35.46	47.54	ND		229.95	38.54	1.04	3.51	36.69	2.55	-41.38	36.99	-2.72	1.1	3.4	33.35	83.42	3.55	1265.81	307.41	161.91	4.61
12-Apr-12	27	21.31	wilder_5420	224	NA	1	1	4			111.14	8.92	<LOD	20.31	<LOD	80.53	155.36	12.24	<LOD	191.56	<LOD	1000.22	<LOD	45.95	<LOD	16.72	14889.66	270.01	<LOD	30.36	<LOD	57.32	<LOD	231.45	<LOD	0	690.39	65.49	14.3	4.56	50.06	3.38	<LOD	132.41	<LOD	4.94	<LOD	127.89	104.46	4.54	1193.3	323.75	297.65	7.1
12-Apr-12	27	23.01	stroh 5434	161	NA	1	1	2			56	6	<LOD	12	<LOD	70	119	9	<LOD	128	<LOD	408	<LOD	37	<LOD	14	12888	202	<LOD	22	<LOD	55	226	60	<LOD	0	521	48	<LOD	10	53	3	<LOD	113	<LOD	4	<LOD	104	100	4	4033	470	313	6
12-Apr-12	27	20.03	embree 5444	222	NA	3	2	4			21.96	4.24	5.44	2.71	-29.65	21.43	50.59	6.27	-30.78	39.6	ND		-14.92	8.62	-7.6	3.44	6381.8	128.8	7.51	6.63	-167.16	16.4	80.75	41.09	ND		136.56	31.38	-3.05	3.27	31.66	2.29	-4.9	34.19	0.09	1.25	9.87	30.87	74.75	3.22	440.49	246.49	143.86	4.18
12-Apr-12	28	19.04	wilder_5420	224	NA	1	1	4			190.71	9.84	<LOD	22.82	<LOD	70.67	188.03	11.67	<LOD	185.89	<LOD	930.81	<LOD	42.75	<LOD	14.78	20327.25	292.57	<LOD	26.3	<LOD	49.61	<LOD	232.02	<LOD	0	525.11	54.55	<LOD	11.45	69.99	3.39	<LOD	115.01	<LOD	4.87	<LOD	110.39	110.19	4.07	2589.14	330.69	308.83	6.33
12-Apr-12	28	23.46	stroh 5434	161	NA	1	1	2			87	7	<LOD	16	<LOD	77	87	8	<LOD	135	<LOD	411	<LOD	41	<LOD	15	10706	192	<LOD	23	<LOD	60	227	59	<LOD	0	532	51	<LOD	11	56	3	<LOD	123	<LOD	5	<LOD	114	101	4	3159	464	346	7
12-Apr-12	28	20.63	embree 5444	222	NA	3	2	4			50.42	5.65	5.07	3.58	-19.77	23.14	68.46	7.43	83.7	51.72	ND		4.02	10.91	3.49	4.72	9731.59	175.29	-0.29	6.83	-90.56	17.69	20.8	50.95	ND		234.26	39.76	5.17	3.59	42.01	2.68	-4.97	37.46	-2.92	1.13	39.56	33.53	104.36	3.91	993.49	293.6	198.68	5.05
12-Apr-12	29	21.67	wilder_5420	224	NA	1	1	4			195.4	10.57	<LOD	24.64	<LOD	75.94	262.96	14.48	<LOD	183.81	<LOD	1006.91	<LOD	43.57	<LOD	14.53	18688.79	294.11	<LOD	27.34	<LOD	53.09	<LOD	238.08	<LOD	0	608.69	59.92	<LOD	12.79	57.14	3.33	<LOD	121.48	<LOD	4.56	<LOD	119.03	108.27	4.31	2370.08	348.73	340.57	7.1
12-Apr-12	29	23.69	stroh 5434	161	NA	1	1	2			61	6	<LOD	14	<LOD	74	77	8	<LOD	120	<LOD	403	<LOD	35	<LOD	14	9698	179	<LOD	23	<LOD	58	<LOD	161	<LOD	0	462	48	<LOD	11	46	3	<LOD	118	<LOD	4	<LOD	109	71	3	2209	429	282	6
12-Apr-12	29	21.67	embree 5444	221	NA	3	2	30			183.26	10.49	-1.78	6.37	-16.5	26	368.85	17.43	88.79	60.17	ND		-4.22	12.57	3.71	5.65	11996	222.89	20.38	9.26	-36.99	20.05	27.38	62.57	ND		467.48	54.74	0.3	4.09	43.69	3.04	36.78	42.36	-0.89	1.65	76.65	38.16	87.24	4.04	3233.31	419.19	307.17	6.9
12-Apr-12	30	21.7	wilder_5420	224	NA	1	1	6			160.02	9.55	<LOD	22	<LOD	74.44	164.14	11.51	<LOD	178.16	<LOD	959.7	<LOD	40.99	<LOD	13	15872.44	258.66	<LOD	27.92	<LOD	51.78	<LOD	216.26	<LOD	0	551.78	56.24	<LOD	12.26	53.08	3.18	<LOD	121.74	<LOD	5.18	<LOD	115.97	105.5	4.19	1662.99	318.78	301.07	6.55
12-Apr-12	30	23.5	stroh 5434	175	NA	1	1	0			339	14	<LOD	29	<LOD	76	227	13	<LOD	151	<LOD	478	<LOD	46	<LOD	18	20387	305	<LOD	28	<LOD	61	403	83	<LOD	0	443	53	14	4	55	3	<LOD	123	<LOD	5	<LOD	113	112	4	3455	523	272	6
12-Apr-12	30	22.3	embree 5444	221	NA	3	2	30			134.32	9.44	-0.7	5.75	-0.42	26.4	269.25	15.52	29.86	55.96	ND		-7.74	12.75	4.06	5.73	10274.38	207.53	139.11	14.82	-59.39	20.52	101.16	61.3	ND		404.36	52.73	0.91	4.22	48.31	3.25	25.86	43.46	0.51	1.75	180.49	38.93	89.66	4.2	3214.84	414.85	300.92	7.03
12-Apr-12	31	18.4	wilder_5420	224	NA	1	1	6			211.28	9.99	<LOD	22.26	<LOD	68.52	200.24	11.65	<LOD	175.36	<LOD	895.41	<LOD	42.8	<LOD	13.64	18487.45	265.95	<LOD	24.09	<LOD	47.84	<LOD	214.38	<LOD	0	752.26	58.75	<LOD	11.21	58.65	3.07	<LOD	111.47	<LOD	4.25	<LOD	107.7	117.5	4.07	1826.26	301.34	281.05	5.87
12-Apr-12	31	23.63	stroh 5434	175	NA	1	1	0			232	11	<LOD	24	<LOD	75	201	12	<LOD	132	<LOD	428	<LOD	43	<LOD	14	17797	273	<LOD	28	<LOD	59	344	76	<LOD	0	445	51	15	4	58	3	<LOD	118	<LOD	4	<LOD	109	133	5	3137	479	268	6
12-Apr-12	31	20.76	embree 5444	221	NA	3	2	30			122.13	8.37	7.4	5.29	-31.66	24.66	190.84	12.41	146.22	59	ND		3.89	12.67	-3.6	4.64	10405.98	193.05	277.53	17.89	-3.27	19.16	119.38	57.35	ND		405.64	49.44	-0.1	3.91	58.17	3.23	-30.37	40.57	0	1.59	30.35	36.93	97.17	4.01	2768.12	374.43	341.38	6.94
12-Apr-12	32	21.26	wilder_5420	224	NA	1	1	6			163.66	9.13	<LOD	20.03	<LOD	69.59	186.87	11.55	<LOD	157.74	<LOD	814.43	<LOD	39.24	<LOD	13.59	14374.32	229.17	<LOD	25.98	<LOD	48.39	<LOD	199.82	<LOD	0	648.8	55.39	<LOD	11.26	55.75	3.06	<LOD	110.41	<LOD	4.83	<LOD	106.74	107.37	3.99	1499.2	279.19	236.82	5.52
12-Apr-12	32	23.59	stroh 5434	175	NA	1	1	0			208	11	<LOD	24	<LOD	75	187	12	<LOD	144	<LOD	423	<LOD	41	<LOD	14	17463	269	<LOD	29	<LOD	59	407	76	<LOD	0	474	52	13	4	56	3	<LOD	119	<LOD	5	<LOD	110	131	4	2554	460	273	6
12-Apr-12	32	22.66	embree 5444	224	NA	1	2	0			106.55	8.84	-5.1	5.25	12.12	27.73	135.54	11.64	-6.05	58.95	ND		-0.73	13.8	0.01	5.43	14264.75	266.25	17.11	9.61	-70.46	21.19	-2.89	71.43	ND		375.57	55.01	5.34	4.36	46.57	3.31	-57.78	44.53	-2.89	1.46	125.01	40.77	114.46	4.83	2354.22	410.57	258.06	6.75
12-Apr-12	33	20.71	wilder_5420	161	NA	1	1	0			103.3	7.5	<LOD	17.13	<LOD	70.33	124.84	9.62	<LOD	156.66	<LOD	921.77	<LOD	39.64	<LOD	12.37	12500.97	208.23	<LOD	22.24	<LOD	49.34	<LOD	187.59	<LOD	0	523.33	50.97	<LOD	11.67	55.04	3.04	<LOD	115.3	<LOD	4.28	<LOD	110.89	95.14	3.78	1850.61	307.87	322.42	6.4
12-Apr-12	33	23.66	stroh 5434	175	NA	1	1	0			206	11	<LOD	23	<LOD	74	207	12	<LOD	144	<LOD	440	<LOD	41	<LOD	17	17400	268	<LOD	26	<LOD	59	454	77	<LOD	0	487	52	19	4	56	3	<LOD	117	<LOD	5	<LOD	108	128	4	2418	465	274	6
12-Apr-12	33	22.26	embree 5444	224	NA	1	2	0			78.76	7.5	8.53	4.8	3.66	25.49	150.75	11.56	98.92	60.88	ND		27.5	14.33	-7.35	4.38	13530.21	244.12	15.22	8.98	-132.58	19.72	-26.84	65.81	ND		501.68	56.8	-7.53	3.96	46.52	3.14	-49.35	41.2	1.54	1.72	45.77	37.65	107.43	4.45	2245.8	374.21	235.44	6.13
12-Apr-12	34	20.34	wilder_5420	161	NA	1	1	0			91.73	7.19	<LOD	16.92	<LOD	71.16	143.31	10.21	<LOD	165.02	<LOD	898.95	<LOD	34.06	<LOD	12.56	11967.62	202.25	<LOD	22.8	<LOD	49.5	<LOD	180.5	<LOD	0	517.7	50.76	<LOD	11.81	57.9	3.1	<LOD	118.21	<LOD	4.76	<LOD	111.63	111.36	4.05	1696.61	299.47	374.37	6.95
12-Apr-12	34	23.6	stroh 5434	175	NA	1	1	0			239	11	<LOD	24	<LOD	75	216	13	<LOD	151	<LOD	409	<LOD	45	<LOD	16	17897	274	<LOD	27	<LOD	59	268	75	<LOD	0	508	54	<LOD	11	59	3	<LOD	120	<LOD	5	<LOD	110	132	4	2844	460	272	6
12-Apr-12	34	20.59	embree 5444	224	NA	1	2	0			86.11	7.34	13.02	4.82	9.84	24.96	125.09	10.16	-72.16	52.56	ND		11.36	13.85	-1.46	4.81	16264.85	261.43	21.18	8.93	-25.98	19.22	36.7	69.15	ND		606.81	58.14	6.84	4.02	67.44	3.46	45.78	40.68	-2.03	1.43	170.92	37.2	120.13	4.44	2902.61	411.81	352.42	7.11
12-Apr-12	35	19.34	wilder_5420	161	NA	1	1	0			156.37	9.12	<LOD	20.34	<LOD	72.93	185.72	11.76	<LOD	174.18	<LOD	895.39	<LOD	37.65	<LOD	15.15	12520.25	213.26	<LOD	25.59	<LOD	50.07	<LOD	187.3	<LOD	0	470.54	50.65	<LOD	11.74	51.82	3.04	<LOD	118.83	<LOD	4.51	<LOD	113.97	94.94	3.87	1956.1	308.81	312.79	6.45
12-Apr-12	35	23.65	stroh 5434	175	NA	1	1	0			224	11	<LOD	24	<LOD	76	204	12	<LOD	141	<LOD	440	<LOD	45	<LOD	16	17675	273	<LOD	28	<LOD	59	359	76	<LOD	0	485	53	<LOD	11	55	3	<LOD	120	<LOD	5	<LOD	110	131	4	2022	456	275	6
12-Apr-12	35	21.12	embree 5444	224	NA	1	2	2			119.7	8.59	10.1	5.49	-32.72	25.14	193.39	12.61	49.14	61.07	ND		28.44	14.98	6.15	5.58	16689.38	273.5	20.68	9.17	-48.99	19.63	22.38	71.59	ND		443.15	54.81	1.53	4	54.14	3.24	-59.63	41.6	-0.85	1.57	48.47	37.5	95.72	4.12	1694.83	384.19	288.4	6.56
12-Apr-12	36	20.16	wilder_5420	161	NA	4			swingset		65.39	6.26	<LOD	14.31	<LOD	70.39	70.92	7.63	<LOD	175.32	<LOD	919.04	<LOD	38.89	<LOD	15.1	13109.7	212.12	<LOD	24.1	<LOD	48.78	<LOD	188.56	<LOD	0	493.05	50.07	<LOD	11.43	55.86	3.02	<LOD	116.09	<LOD	3.98	<LOD	111.59	120.74	4.15	1669.21	301.43	340.79	6.53

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

In-Situ XRF Data

Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment		Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
12-Apr-12	36	23.61	stroh 5434	175	NA	1	1	0			234	11	<LOD	25	<LOD	76	206	12	<LOD	141	<LOD	438	<LOD	43	<LOD	17	18237	280	<LOD	28	<LOD	60	353	78	<LOD	0	455	52	14	4	62	3	<LOD	121	<LOD	6	<LOD	111	123	4	3152	488	273	6
12-Apr-12	36	20.87	embree 5444	224	NA	1	2	2			65.69	6.78	9.28	4.38	6.8	25.31	138.97	10.76	43.22	59.75	ND		22.66	14.68	3.82	5.28	16006.05	262.03	15.13	8.76	-7.2	19.59	67.83	69.99	ND		278.72	47.98	2.49	4.02	58.16	3.29	-83.7	41.38	1.6	1.71	92.08	37.97	89.86	3.96	2349.27	402.88	345.01	7.11
12-Apr-12	37	20.42	wilder_5420	161	NA	4			swingset		62.65	6.87	<LOD	15.41	<LOD	78.1	81.76	8.95	<LOD	199.57	<LOD	1000.8	<LOD	43.8	<LOD	17.4	15428.85	262.38	<LOD	27.92	<LOD	54.58	<LOD	223.77	<LOD	0	372.66	52.16	<LOD	12.92	62.78	3.51	<LOD	128.69	<LOD	4.68	<LOD	122.27	115.4	4.51	1592.69	329.23	343.85	7.28
12-Apr-12	37	23.65	stroh 5434	175	NA	1	1	0			231	11	<LOD	24	<LOD	75	195	12	<LOD	150	<LOD	417	<LOD	40	<LOD	16	17706	272	<LOD	27	<LOD	59	<LOD	217	<LOD	0	484	53	13	4	58	3	<LOD	118	<LOD	5	<LOD	110	136	5	2268	448	269	6
12-Apr-12	37	20.8	embree 5444	224	NA	1	2	2			62.36	6.63	6.66	4.22	54.14	25.72	128.74	10.42	172.93	65.6	ND		17.49	14.85	-2.52	4.76	15514.47	256.75	10.87	8.56	-41.29	19.44	159.06	70.43	ND		364.52	51.41	2.18	4.06	57.26	3.27	-56.02	42.27	-1.94	1.43	75.3	38.22	100.82	4.17	2869.6	407.14	378.66	7.5
12-Apr-12	38	19.49	wilder_5420	175	NA	1	1	2			154.55	8.87	<LOD	20.05	<LOD	68.53	199.38	11.85	<LOD	171.6	<LOD	864.11	<LOD	38.31	<LOD	12.79	16078.47	246.13	<LOD	25.24	<LOD	48.15	<LOD	209.16	<LOD	0	399.71	48.38	<LOD	11.37	52.07	2.97	<LOD	110.27	<LOD	4.76	<LOD	104.87	99.71	3.85	1559.45	290.43	246.48	5.59
12-Apr-12	38	23.58	stroh 5434	175	NA	1	1	0			256	12	<LOD	25	<LOD	75	209	12	<LOD	138	<LOD	403	<LOD	44	<LOD	17	17107	262	<LOD	28	<LOD	58	292	73	<LOD	0	397	49	20	4	51	3	<LOD	117	<LOD	5	<LOD	108	110	4	2711	449	259	6
12-Apr-12	38	21.79	embree 5444	224	NA	1	2	4			120.09	8.67	6.17	5.45	-3.54	25.36	225.09	13.65	61.87	60.29	ND		25.5	14.81	9.77	5.9	14757.4	253.91	21.97	9.28	-79.49	19.66	72.1	68.96	ND		355.73	51.26	-5.22	3.95	45.87	3.06	0.32	41.08	-0.88	1.56	0.73	36.91	84.9	3.96	2135.14	390.83	264.28	6.33
12-Apr-12	39	19.34	wilder_5420	175	NA	1	1	2			139.79	8.62	27.59	7.01	<LOD	71.2	161.47	10.96	<LOD	172.11	<LOD	910.99	<LOD	36.23	<LOD	13.6	15094.38	239.36	<LOD	26.23	<LOD	49.32	<LOD	206.2	<LOD	0	340.79	46.77	<LOD	11.49	53.64	3.05	<LOD	115.1	<LOD	4.58	<LOD	108.99	103.53	3.98	1416.45	297.29	277.93	6.03
12-Apr-12	39	24.02	stroh 5434	175	NA	1	1	0			260	13	<LOD	27	<LOD	82	245	14	<LOD	144	<LOD	439	<LOD	43	<LOD	18	15873	269	<LOD	26	<LOD	63	301	77	<LOD	0	375	51	17	4	47	3	<LOD	129	<LOD	6	<LOD	119	129	5	<LOD	1308	248	6
12-Apr-12	39	20.57	embree 5444	224	NA	1	2	4			89.76	7.38	1.14	4.52	-1.26	24.59	167.21	11.35	-4.72	54.39	ND		18.92	13.67	7.38	5.41	14723.75	241.54	2.38	7.71	-56.81	18.83	40.6	65.3	ND		449.28	51.99	-4.32	3.79	59.03	3.23	25.84	39.67	0.46	1.57	53.5	35.95	98.39	4.02	2107.74	377.75	292.73	6.36
12-Apr-12	40	20.5	wilder_5420	175	NA	1	1	2			158.33	8.6	24.55	6.88	<LOD	65.87	190.51	11.16	<LOD	155.43	<LOD	796.38	<LOD	37.03	<LOD	13.71	15744.95	232.96	25.75	8.34	<LOD	45.99	<LOD	198.38	<LOD	0	411.34	46.51	<LOD	10.78	45.4	2.71	<LOD	106.05	<LOD	4.41	<LOD	100.85	109.76	3.86	1107.4	260.61	253.18	5.45
12-Apr-12	40	24.24	stroh 5434	164	NA	1	1	0			96	8	38	7	<LOD	80	120	10	<LOD	160	<LOD	433	<LOD	44	<LOD	16	14976	261	<LOD	29	<LOD	63	409	77	<LOD	0	378	52	15	4	56	3	<LOD	126	<LOD	5	<LOD	117	108	4	2432	475	238	6
12-Apr-12	40	20.25	embree 5444	224	NA	1	2	4			57.23	6.44	2.73	3.98	8.06	25.4	86.42	8.83	54.6	58.04	ND		-3.29	13.37	2.42	5.17	14133.12	238.75	-8.16	7.54	-1.31	19.48	59.2	65.84	ND		372.14	50.49	-4.94	4.3	65.01	3.42	-5.25	41.93	-1.57	1.54	85.7	37.84	109.2	4.3	3422.48	410.15	686.65	10.76
12-Apr-12	41	20.72	wilder_5420	164	NA	3	1	30			212.5	9.9	<LOD	23.02	<LOD	66.58	183.03	11.06	<LOD	150.81	<LOD	734.7	<LOD	35.06	<LOD	12.88	11374.55	189.87	<LOD	23.87	<LOD	46.48	<LOD	173.34	<LOD	0	336.29	42.66	12.22	3.69	43.2	2.68	<LOD	104.08	<LOD	4.77	<LOD	100.35	94.16	3.64	1226.84	251.68	222.33	5.17
12-Apr-12	41	24.51	stroh 5434	164	NA	1	1	0			133	8	<LOD	18	<LOD	67	119	9	<LOD	122	<LOD	358	<LOD	38	<LOD	14	14788	216	<LOD	24	<LOD	53	362	64	<LOD	0	314	41	12	3	51	3	<LOD	107	<LOD	4	<LOD	98	107	4	1769	377	250	5
12-Apr-12	41	20.19	embree 5444	224	NA	1	2	6			95.22	7.2	0.42	4.4	34.16	23.27	150.91	10.39	155.67	56.39	ND		32.74	13.04	-5.9	4.06	13209.38	215.05	19.84	8.23	-111.98	17.69	-31.92	58.37	ND		464.77	49.75	5.88	3.69	43.18	2.73	-24.53	37.56	0.41	1.48	39.68	34.05	86.09	3.62	2899.73	344.42	260.48	5.73
12-Apr-12	42	19.98	wilder_5420	164	NA	3	1	30			327.07	12.21	<LOD	27.3	<LOD	68.62	268.9	13.28	<LOD	168.16	<LOD	878.6	<LOD	39.9	<LOD	14.36	14320.75	221.47	26.3	8.62	<LOD	47.62	<LOD	188.88	<LOD	0	394.2	46.45	<LOD	10.97	55.17	2.97	<LOD	112.46	<LOD	5.21	<LOD	107.15	98.72	3.74	1673.05	292.36	287.32	5.87
12-Apr-12	42	25.48	stroh 5434	164	NA	1	1	0			98	8	46	7	<LOD	75	127	10	204	56	<LOD	440	<LOD	39	<LOD	14	15355	250	59	11	<LOD	59	<LOD	206	<LOD	0	497	53	15	4	50	3	<LOD	118	<LOD	6	<LOD	110	112	4	2610	472	225	5
12-Apr-12	42	20.53	embree 5444	224	NA	1	2	6			84.9	7.13	7.84	4.54	-6.28	24.18	151.99	10.72	2.23	53.18	ND		6.17	12.52	-0.03	4.75	13539.39	224.78	6.75	7.78	-69.19	18.47	22.69	61.62	ND		432.28	50.22	-9.09	3.73	47.24	2.91	-22.42	39.28	1.78	1.65	51.18	35.57	91.21	3.83	2086.46	369.05	330.66	6.67
12-Apr-12	43	19.49	wilder_5420	164	NA	3	1	30			281.99	12.26	38.73	9.73	<LOD	74.37	274.82	14.46	<LOD	173.24	<LOD	984.36	<LOD	38.45	<LOD	14.47	16327.29	261.24	<LOD	27.7	<LOD	51.75	<LOD	214.56	<LOD	0	452.94	52.67	<LOD	12.22	58.18	3.28	<LOD	121.56	<LOD	5.47	<LOD	116.62	113.31	4.29	2404.65	341.39	319.9	6.71
12-Apr-12	43	21.82	stroh 5434	158	NA	4			play area		68	5	<LOD	11	<LOD	58	118	7	<LOD	86	<LOD	294	<LOD	28	<LOD	11	7968	126	<LOD	18	<LOD	45	127	40	<LOD	0	608	41	<LOD	9	36	2	<LOD	90	<LOD	3	<LOD	84	73	3	1672	309	217	4
12-Apr-12	43	20.94	embree 5444	224	NA	1	2	6			52.65	6.48	3.63	4	12.01	25.96	107.97	9.88	8.83	59.34	ND		4.43	14.97	3.77	5.36	17065.43	279.31	14.24	8.9	15.1	20.1	200.94	75.4	ND		369.7	52.59	0.83	4.13	62.79	3.46	-34.2	42.66	3.75	1.9	80.24	38.7	107.25	4.36	3347.4	438.14	376.71	7.62
12-Apr-12	44	20.67	wilder_5420	164	NA	3	2	30			306.13	13.41	<LOD	30.02	<LOD	75.9	258.45	14.74	<LOD	204.21	<LOD	1059.07	<LOD	42.85	<LOD	16.69	17503.76	287.79	<LOD	28.64	<LOD	54.09	<LOD	241.22	<LOD	0	383.43	53.77	<LOD	12.99	58.5	3.45	<LOD	123.67	<LOD	6.48	<LOD	118.31	96.28	4.2	2120.37	355.65	318.27	7.01
12-Apr-12	44	21.88	stroh 5434	158	NA	4			play area		71	5	<LOD	11	<LOD	56	84	6	<LOD	85	<LOD	243	<LOD	27	<LOD	11	5749	102	<LOD	18	<LOD	44	126	34	<LOD	0	246	29	<LOD	8	32	2	<LOD	89	<LOD	3	<LOD	81	65	3	1198	262	201	4
12-Apr-12	44	21.98	embree 5444	224	NA	3	2	30			379.3	14.64	12.72	9.01	1.17	25.02	500.41	20.03	4.6	54.33	ND		13.62	12.52	-9.29	4.69	10844.47	206.05	11.49	8.55	-98.88	19.46	-36.38	57.61	ND		411.49	51.2	-2.46	3.79	28.93	2.61	21.36	41.41	-0.28	1.79	101.54	36.96	59.46	3.41	1724	374.57	128.71	4.61
12-Apr-12	45	19.1	wilder_5420	164	NA	3	2	30			277.7	11.92	<LOD	27.22	<LOD	72.44	267.01	13.99	<LOD	185.84	<LOD	967.88	<LOD	44.18	<LOD	17.21	16879.66	261.77	<LOD	27.44	<LOD	50.79	<LOD	219.47	<LOD	0	537.34	54.88	<LOD	12	59.57	3.24	<LOD	120.2	<LOD	5.03	<LOD	115.01	106.44	4.09	1951.08	324.13	328.23	6.65
12-Apr-12	45	22.61	stroh 5434	158	NA	4			play area		82	6	<LOD	13	<LOD	63	61	6	<LOD	96	<LOD	286	<LOD	26	<LOD	13	6267	117	<LOD	19	<LOD	49	<LOD	116	<LOD	0	210	31	<LOD	9	34	2	<LOD	99	<LOD	4	<LOD	92	72	3	1741	316	238	5
12-Apr-12	45	21.75	embree 5444	224	NA	3	2	30			505.92	17.26	18.55	10.54	6.15	25.81	512.65	20.67	-24.8	57.52	ND		22.27	13.7	6.61	6.26	12925.22	235.19	25.99	9.73	-90.56	19.92	-77.77	63.23	ND		417.4	53.64	-3.53	3.95	44.39	3.11	-35.85	42.76	-3.54	1.74	23.16	38.47	79.82	3.92	1470.64	402.53	205.8	5.7
12-Apr-12	46	20.77	wilder_5420	164	NA	3	2	30			364.24	13.7	<LOD	30.74	<LOD	73.71	328.9	15.54	<LOD	186.12	<LOD	942.54	<LOD	42.03	<LOD	14.39	18199.13	277.46	36.07	9.6	<LOD	51.03	<LOD	228.68	<LOD	0	410.05	51.45	12.52	4.11	74.48	3.59	<LOD	119.41	<LOD	6.01	<LOD	115.54	118.66	4.32	2631.83	337.29	338.07	6.82
12-Apr-12	46	22.13	stroh 5434	158	NA	4			play area		101	6	<LOD	14	<LOD	63	118	8	<LOD	107	<LOD	301	<LOD	27	<LOD	11	7532	128	<LOD	20	<LOD	48	222	43	<LOD	0	463	40	<LOD	9	42	2	<LOD	100	<LOD	4	<LOD	91	86	3	1266	311	259	5
12-Apr-12	46	21.42	embree 5444	224	NA	3	2	30			455.18	16.24	38.64	10.25	-10.6	26.35	492.43	20.08	104.41	66.3	ND		7.25	13.23	0.12	5.72	13449.09	239.77	0.98	8.12	-24.26	20.14	12.67	65.4	ND		419.19	54.24	-0.76	3.84	26.46	2.58	-11.86	43.37	0.97	2.01	67.16	38.91	64.98	3.58	1825.18	437.06	120.99	4.56
12-Apr-12	47	20.82	wilder_5420	157	NA	1	1	0			213.8	13.25	<LOD	30.16	<LOD	92.01	334.18	19.24	<LOD	250.74	1999.91	502.88	<LOD	64.57	<LOD	22.79	31136.65	507.03	81.28	14.19	87.53	21.89	<LOD	364.57	<LOD	0	436.77	70.63	<LOD	14.78	36.35	3.66	<LOD	152.81	<LOD	7.01	<LOD	145.8	1406.73	23.3	2067.79	466.14	275.96	8.98
12-Apr-12	47	22.73	stroh 5434	180	NA	3	2	30			127	7	<LOD	15	<LOD	62	126	8	<LOD	102	<LOD	302	<LOD	31	<LOD	12	7628	132	<LOD	19	<LOD	48	<LOD	125	<LOD	0	430	39	<LOD	9	30	2	<LOD	97	<LOD	3	<LOD	89	67	3	1831	329	207	4
12-Apr-12	47	22.26	embree 5444	224	NA	3	2	2			306.42	13.45	1.81	8.2	-14.76	25.8	275.75	15.28	27.32	55.54	ND		-7.41	12	-6.5	4.8	11583.02	220.19	19.52	9.14	-129.33	19.76	2.18	61.63	ND		305.26	48.33	-1.09	4.02	34.14	2.82	2.64	41.14	-5.03	1.37	-20.25	37.39	83.98	4.01	1991.44	366.1	220.21	5.92
12-Apr-12	48	20.56	wilder_5420	157	NA	1	1	0			106.75	7.98	<LOD	18.71	<LOD	73.98	133.53	10.37	<LOD	188.57	<LOD	1052.49	<LOD	47.65	<LOD	16.24	22705.92	326.24	32.17	9.55	<LOD	51.92	<LOD	250.37	<LOD	0	358.07	51.7	<LOD	12.37	71.5	3.53	<LOD	121.67	<LOD	5.27	<LOD	115.79	135.25	4.61	2634.49	359.22	417.4	7.7
12-Apr-12	48	22.43	stroh 5434	180	NA	3	2	30			100	7	<LOD	14	<LOD	63	134	9	<LOD	102	<LOD	327	<LOD	32	<LOD	12	10909	165	<LOD	18	<LOD	49	182	50	<LOD	0	575	45	<LOD	9	48	2	<LOD	101	<LOD	4	<LOD	92	84	3	2570	366	250	5
12-Apr-12	48	22.11	embree 5444	224	NA	3	2	2			310.95	12.07	11.02	7.48	29.04	22.73	310.27	14.38	77.34	54.02	ND		25.59	12.35	7.54	5.36	12208.48	202.36	8.71	7.65	-138.77	17.46	-47.82	55.46	ND		453.06	48.78	-6.8	3.52	49.01	2.86	17.68	36.47	-1.69	1.51	-11.26	33.27	101.03	3.86	1564.4	331.32	240.94	5.49
12-Apr-12	49	21.25	wilder_5420	157	NA	1	1	0			255.59	11.86	<LOD	27.06	<LOD	71.22	259.87	14.33	<LOD	173.18	<LOD	818.42	<LOD	38.09	<LOD	13.57	13573.31	234.74	34.02	9.74	<LOD	50.06	<LOD	203.12	<LOD	0	326.61	47.63	13.24	3.97	28.96	2.59	<LOD	111.62	<LOD	4.76	<LOD	106.35	132.88	4.68	<LOD	774.06	139.01	4.75
12-Apr-12	49	23.11	stroh 5434	180	NA	3	2	30			114	7	<LOD	15	<LOD	65	101	8	<LOD	93	<LOD	298	<LOD	31	<LOD	13	7883	141	<LOD	21	<LOD	51	152	45	<LOD	0	400	40	<LOD	10	38	2	<LOD	102	<LOD	4	<LOD	93	81	3	1667	329	227	5
12-Apr-12	49	22	embree 5444	224	NA	3	2	2			190.2	9.49	18.06	6.13	-36.43	22.71	236.34	12.51	103.03	52.14	ND		16.56	11.63	0.2	4.64	10505.59	182.21	6.32	7.3	-142.7	17.26	5.36	52.01	ND		427.55	46.67	-7.65	3.44	43.75	2.71	20.74	36.1	-1	1.43	45.14	32.9	106.62	3.91	1440.9	296.63	210.64	5.13
12-Apr-12	50	19.4	wilder_5420	157	NA	1	1	2			105.84	7.58	<LOD	17.6	<LOD	69.68	119.35	9.46	<LOD	149.21	<LOD	803.61	<LOD	38.02	<LOD	13.19	12734.08	210.84	<LOD	22.66	<LOD	48.72	<LOD	187.95	<LOD	0	299.48	43.19	<LOD	11.06	41.22	2.72	<LOD	112.56	<LOD	4.46	<LOD	107.9	93.12	3.74	<LOD	756.07	233.8	5.46
12-Apr-12	50	22.8	stroh 5434	180	NA	3	1	30			34	5	<LOD	11	<LOD	70	50	6	<LOD	106	<LOD	403	<LOD	37	<LOD	14	13834	209	<LOD	21	<LOD	55	278	61	<LOD	0	808	55	<LOD	10	46	3	<LOD	113	<LOD	4	<LOD	103	103	4	3634	454	281	5
12-Apr-12	50	22.91	embree 5444	175	NA	3	1	30			186.94	10.98	2.48	6.76	-48.65	26.17	253.65	15.12	50.55	57.37	ND		7.83	13.54	9.52	6.17	10126.67	207.79	28.16	9.89	-173.85	20.09	115.07	61.61	ND		147.22	41.7	3.73	4.12	37.18	2.98	-7.68	41.77	-2.09	1.53	27.99	38.23	75.66	3.96	1133.7	338.76	160.32	5.31
12-Apr-12	51	17.51	wilder_5420	157	NA	1	1	2			99.93	6.41	<LOD	14.82	<LOD	59.41	125.11	8.4	<LOD	119.74	<LOD	661.11	<LOD	30.2	<LOD	10.42	8713.28	144.6	<LOD	18.84	<LOD	40.86	<LOD	138.96	<LOD	0	238.1	33.82	<LOD	9.43	28.33	2.06	<LOD	94.47	<LOD	3.25	<LOD	89.35	74.09	2.96	<LOD	608.56	143.32	3.84
12-Apr-12	51	23.2	stroh 5434	180	NA	3	4	30			136	9	<LOD	18	<LOD	75	137	10	<LOD	133	<LOD	411	<LOD	40	<LOD	16	14311	227	<LOD	27	<LOD	58	255	66	<LOD	0	728	57	<LOD	11	70	3	<LOD	120	<LOD	4	<LOD	109	128	4	4660	500	334	6
12-Apr-12	51	20.3	embree 5444	175	NA	3	1	30			118.37	7.88	10.22	5.04	-2.92	23.16	134.5	9.9	57.89	51.45	ND		19.59	13.07	-4.26	4.25	11914.27	201.37	11.13	7.76	-87.45	17.86	147.51	58.5	ND		335.82	44.79	-2.14	3.62	50.12	2.9	-58.27	37.74	-1.01	1.4	73.55	34.35	98.45	3.85	1708.41	312.51	258.53	5.74
12-Apr-12	52	19.13	wilder_5420	157	NA	1	1	2			100.01	7.21	<LOD	16.72	<LOD	68.3	123.22	9.36	<LOD	143.63	<LOD	726.96	<LOD	31.31	<LOD	11.81	10823.47	185.56	<LOD	22.28	<LOD	47.15	<LOD	170.1	<LOD	0	386.59	44.42	<LOD	10.78	40.54	2.63	<LOD	109.74	<LOD	3.9	<LOD	105.02	96.48	3.71	746.28	237.43	204.13	5.01
12-Apr-12	52	22.92	stroh 5434	180	NA	3	4	30			131	8	<LOD	17	<LOD	67	246	12	<LOD	108	<LOD	360	<LOD	37	<LOD	15	10159	168	<LOD	23	<LOD	52	<LOD	153	<LOD	0	727	51	<LOD	10	53	3	<LOD	103	<LOD	5	<LOD	97	107	4	2822	403	346	6
12-Apr-12	52	21.58	embree 5444	175	NA	3	1	30			236.69	11.45	4.46	7.05	-7.6	24.6	277.66	14.72	79.35	58.17	ND		-0.55	12.9	0.31	5.15	12403.05	220.97	15.71	8.59	-94.02	19.12	135.42	63.31	ND		337.9	48.5	-5.8	3.79	52.81	3.18	-4.38	40.06	-0.39	1.65	31.6	36.41	92.88	4.02	1339.9	344.47	216.89	5.65
12-Apr-12	53	21.19	wilder_5420	158	NA	1	1	0			254.17	11.32	<LOD	24.59	<LOD	70.86	221.87	12.71	<LOD	154.15	<LOD	864.61	<LOD	37.43	<LOD	14.35	14250.45	231.45	27.58	8.98	<LOD	49.8	<LOD	200.42	<LOD	0	389.43	47.9	<LOD	11.58	41.49	2.79	<LOD	115.31	<LOD	5.09	<LOD	110.83	98.41	3.91	1222.13	283.38	251.86	5.77
12-Apr-12	53	23.39	stroh 5434	180	NA	3	4	30			109	8	<LOD	17	<LOD	72	223	12	<LOD	141	<LOD	459	<LOD	41	<LOD	16	12963	211	<LOD	24	<LOD	57	274	63	<LOD	0	947	63	16	4	63	3	<LOD	114	<LOD	5	<LOD	106	114	4	4082	510	380	7
12-Apr-12	53	21.7	embree 5444	175	NA	3	2	30			345.49	14.16	11.94	8.74	-1.01	25.25	401.68	18.18	69.62	62.58	ND		-17.93	13.58	-8.93	4.73	16201.09	272.87	32.45	9.91	-121.15	19.63	190.55	74.36	ND		365.77	52.88	4.23	4.07	61.86	3.51	-0.99	41.12	-1.6	1.74	31.46	37.26	105.85	4.39	2283.06	403.93	251.53	6.25
12-Apr-12	54	19.09	wilder_5420	158	NA	1	1	0			232.92	10.77	<LOD	24.4	<LOD	70.82	213.48	12.39	<LOD	177.69	1100.71	320.93	<LOD	38.22	<LOD	15.12	16521.64	253.25	34.39	9.19	<LOD	49.53	<LOD	213.17	<LOD	0	376.05	48.55	<LOD	11.5	42.81	2.8	<LOD	115.17	<LOD	4.82	<LOD	110.36	106.07	4	952.02	295.55	251.06	5.71
12-Apr-12	54	48.02																																																					
12-Apr-12	54	22.29	embree 5444	175	NA	3	2	30			332.49	14.17	33.51	9.11	-6.94	25.83	389.12	18.3	116.04	64.51	ND		-21.53	12.97	1.78	5.74	14793.92	261.7	74.84	12.08	-148.18	19.88	146.3	72.14	ND		285.19	50.14	1.37	4.07	44.74	3.15	-37.24	41.32	-2.38	1.69	-21.46	37.49	102.25	4.41	2030.84	388.07	209.98	5.87
12-Apr-12	55	18.92	wilder_5420	158	NA	1	1	0			210.69	10.06	<LOD	23.52	<LOD	68.8	209.69	11.98	<LOD	157.34	<LOD	850.56	<LOD	36.26	<LOD	12.06	13011.27	210.91	<LOD	24.65	<LOD	47.89	<LOD	184.41	<LOD	0	297.27	42.94	<LOD	11.1	38.89	2.63	<LOD	112.43	<LOD	5.23	<LOD	107.47	93.56	3.7	1099.17	273.54	233.06	5.38
12-Apr-12	55	23.49	stroh 5434		2586						357	15	<LOD	30	<LOD	81	256	14	225	72	693	208	<LOD	61	<LOD	18	41707	549	35	11	<LOD	63	687	121	<LOD	0	669	70	13	4	39	3	<LOD	127	<LOD	6	<LOD	117	71	4	4860	666	196	5
12-Apr-12	55	22.99	embree 5444	175	NA	3	2	30			316.84	14.24	-1.24	8.61	25.87	26.25	323.16	17.14	6.83	56.9	ND		-11.85	12.85	-5.18	5.16	12080.01	235.53	12.39	9.15	-150.01	20.47	84.08	66.81	ND		313.45	50.78	7.9	4.28	47.2	3.31	-68.35	41.85	-2.87	1.64	52.48	38.37	86.73	4.24	1859.72	376.78	209.23	6.03
12-Apr-12	56	19.72	wilder_5420	158	NA	1	1	2			145.55	7.83	<LOD	17.82	<LOD	62.53	204.01	10.89	<LOD	137.87	<LOD	734.35	<LOD	29.62	<LOD	10.76	9352.58	157.44	<LOD	20.56	<LOD	43.33	155.2	50.15	<LOD	0	267.72	36.97	<LOD	10.02	36.16	2.35	<LOD	100.27	<LOD	3.86	<LOD	95.76	66.16	2.95	<LOD	682.58	193.67	4.53
12-Apr-12	56	23.32	stroh 5434		2586						413	16	<LOD	33	<LOD	81	290	15	246	74	<LOD	597	<LOD	64	<LOD	21	47430	609	45	11	<LOD	64	934	130	<LOD	0	782	74	<LOD	12	42	3	<LOD	132	<LOD	7	<LOD	121	83	4	7766	716	227	6
12-Apr-12	56	22.54	embree 5444	175	NA	3	3	30			223.52	11.9	18.45	7.61	13.69	26.2	354.14	17.71	296.1	73.79	ND		15.28	13.94	-2.31	5.33	14023.06	256.58	48.7	11.09	-117.12	20.36	-61.86	68.08	ND		484.89	58.7	-3.04	4.08	41.95	3.11	-3.19	42.09	-0.29	1.77	38.45	38.24	93.28	4.3	2781.16	408.28	204.45	5.88
12-Apr-12	57	18.82	wilder_5420	158	NA	1	1	2			160.94	8.73	<LOD	19.7	<LOD	67.88	165.35	10.55	<LOD	142.89	<LOD	856.06	<LOD	32.04	<LOD	13.17	9387.89	168.24	<LOD	21.05	<LOD	47.12	<LOD	155.92	<LOD	0	360.42	42.87	<LOD	11.18	37.17	2.54	<LOD	110.14	<LOD	4.11	<LOD	105.24	86.8	3.52	1074.72	270.87	330.18	6.28
12-Apr-12	57	22.99	stroh 5434	159	NA	3	2	30			242	10	<LOD	22	<LOD	69	215	11	<LOD	125	<LOD	368	<LOD	39	<LOD	14	12256	194	<LOD	23	<LOD	55	187	57	<LOD	0	363	42	<LOD	10	46	3	<LOD	111	<LOD	4	<LOD	103	134	4	2601	408	308	6
12-Apr-12	57	20.97	embree 5444	175	NA	3	3	30			172.67	9.71	1.6	5.97	4.68	24.57	644.34	22.03	-46.93	48.64	ND		-1.67	12.13	-4.21	4.89	11617.08	207.6	24.64	9.02	-62.01	18.91	60.16	59.22	ND		402.92	49.19	1.84	3.81	51.05	3.07	33.15	40.11	-0.82	1.54	122.32	36.6	79.8	3.69	1443.92	332.56	230.15	5.67
12-Apr-12	58	18.73	wilder_5420	158	NA	1	1	2			165.56	7.98	<LOD	18.05	<LOD	60.59	204.09	10.49	<LOD	103.82	<LOD	717.67	<LOD	31.4	<LOD	13.95	8555.95	143.35	<LOD	21.18	<LOD	41.72	<LOD	133.92	<LOD	0	413.08	39.44	<LOD	9.42	27.8	2.06	<LOD	96.98	<LOD	4.19	<LOD	92.55	72.16	2.94	955.56	230.48	197.64	4.39
12-Apr-12	58	23.26	stroh 5434	159	NA	3	1	30			402	14	<LOD	28	<LOD	73	367	15	<LOD	133	<LOD	381	<LOD	39	<LOD	16	11903	198	<LOD	25	<LOD	56	<LOD	175	<LOD	0	259	40	<LOD	11	38	3	<LOD	115	<LOD	6	<LOD	106	146	4	2033	407	244	5
12-Apr-12	58	21.55	embree 5444	175	NA	3	3	30			434.97	15.87	26.33	9.88	-8.51	25.66	465.3	19.52	61.91	60.76	ND		-8.11	12.97	-2.15	5.48	14649.81	253.85	29.7	9.8	-77.76	19.79	34.63	68.56	ND		526.49	57.73	1.74	4.06	51.82	3.26	51.71	41.27	1.46	2.04	37.54	37.99	86.7	4.02	2180.89	390.14	281.56	6.57
12-Apr-12	59	19.07	wilder_5420	158	NA	3	4	30			62.91	5.77	19.26	4.76	<LOD	62.83	123.91	8.93	<LOD	127.31	<LOD	761.17	<LOD	26.48	<LOD	12.22	6034.71	123.88	<LOD	19.04	<LOD	43.89	<LOD	119.73	<LOD	0	133.53	30.64	<LOD	10.28	36.39	2.4	<LOD	101.11	<LOD	3.77	<LOD	96.64	68.53	3.07	780.8	239.2	229.92	5.01
12-Apr-12	59	22.72	stroh 5434	159	nist low	3	1	30			314	12	<LOD	24	<LOD	68	343	14	<LOD	127	<LOD	342	<LOD	34	<LOD	13	11653	183	36	9	<LOD	53	290	57	<LOD	0	327	40	<LOD	10	50	3	<LOD	108	<LOD	5	<LOD	100	110	4	1604	360	267	5
12-Apr-12	59	20.38	embree 5444	175	NA	3	3	2			276.21	10.89	7.9	6.74	-9.83	21.2	318.2	13.93	72.53	47.18	ND		3.03	10.03	-5.72	4.07	8374.96	152.18	35.62	8.33	-196.01	16.33	23.27	45.41	ND		219.57	36.58	3.22	3.36	32.25	2.34	4.04	33.6	-0.36	1.46	58.69	30.45	69.16	3.14	1453.76	286.38	163.44	4.4
12-Apr-12	60	16.69	wilder_5420	158	NA	3	4	30			75.47	5.71	14.41	4.59	<LOD	60.57	111.83	7.97	<LOD	110.75	<LOD	635.81	<LOD	24.93	<LOD	11.8	5476.32	109.15	<LOD	18.32	<LOD	41.35	<LOD	109.3	<LOD	0	148.52	28.63	<LOD	9.57	35.91	2.22	<LOD	96.7	<LOD	3.05	<LOD	92.75	69.65	2.87	936.13	212.45	240.02	4.76
12-Apr-12	60	24.08	stroh 5434	159	NA	3	1	30			306	11	<LOD	24	<LOD	66	341	14	<LOD	126	<LOD	360	<LOD	35	<LOD	15	13034	191	25	8	<LOD	51	218	56	<LOD	0	422	42	<LOD	10	49	3	<LOD	105	<LOD	5	<LOD	97	108	4	3158	407	266	5
12-Apr-12	60	23.01	embree 5444	175	NA	3	3	2			226.32	12.47	20.58	8	-22.59	27.84	263.7	15.94	-27.97	53.4	ND		11.56	13.62	-7.19	5.03	10058.19	214.46	18.26	9.81	-76.69	21.43	-10.47	61.18	ND		274.38	48.96	0.96	4.32	42.93	3.26	27.24	45.46	1.75	2	65.59	40.87	65.5	3.88	2156.42	385.48	213.09	6.21
12-Apr-12	61	19.84	wilder_5420	158	NA	3	4	30			51.01	5.07	14.24	4.13	<LOD	60.29	94.33	7.57	<LOD	124.49	<LOD	591.12	<LOD	22.4	<LOD	10.47	4615.14	101.13	<LOD	18.26	<LOD	41.44	<LOD	103.86	<LOD	0	201.89	31.16	<LOD	9.77	23.77	1.97	<LOD	94.42	<LOD	3.17	<LOD	90.25	63.95	2.83	599.22	195.61	194.99	4.41
12-Apr-12	61	23.21	stroh 5434	159	NA	3	1	2			363	13	<LOD	27	<LOD	70	1126	27	<LOD	119	<LOD	393	<LOD	41	<LOD	17	13349	211	<LOD	26	<LOD	55	193	61	<LOD	0	386	45	<LOD	10	45	3	<LOD	112	<LOD	5	<LOD	104	116	4	2608	429	229	5
12-Apr-12	61	19.96	embree 5444	175	NA	3	3	2			358.95	13.05	5.37	7.96	-2.3	23.21	452.45	17.45	109.56	55.55	ND		28.33	13.84	3.33	5.24	13709.25	219.71	22.27	8.55	-80.21	17.83	139.69	61.85	ND		478.09	50.46	-0.55	3.63	62.28	3.17	50.31	38.25	-0.16	1.68	51.65	33.81	96.64	3.81	2044.7	327.84	276.52	5.9
12-Apr-12	62	17.23	wilder_5420	158	NA	3	3	30			190.48	8.74	<LOD	20.14	<LOD	63.17	299.45	12.92	<LOD	132.94	<LOD	699.92	<LOD	29.63	<LOD	12.56	6907.94	129.8	<LOD	20.85	<LOD	43.21	<LOD	128.49	<LOD	0	300.76	36.78	<LOD	10.24	34.41	2.29	<LOD	100.66	<LOD	4.12	<LOD	96.89	64.39	2.9	1116.7	233.35	294.49	5.47
12-Apr-12	62	23.39	stroh 5434	159	NA	3	1	2			377	13	<LOD	29	<LOD	71	354	15	<LOD	128	<LOD	399	<LOD	37	<LOD	16	12573	205	29	9	<LOD	56	278	62	<LOD	0	354	44	<LOD	11	38	3	<LOD	111	<LOD	5	<LOD	103	116	4	3382	455	255	5
12-Apr-12	62	20.69	embree 5444	157	NA	3	1	30			32.24	4.88	4.74	3.07	0.14	22.43	41.22	6.07	-12.57	42.77	ND		2.58	10.05	-8.99	3.47	7130.46	142.33	0.51	6.62	-135.64	17.16	33.68	43.7	ND		131.25	32.78	-4.32	3.42	37.8	2.53	-21.75	36.04	1.19	1.41	27.84	32.85	71.89	3.28	1382.64	293.04	185.6	4.79
12-Apr-12	63	18.17	wilder_5420	158	NA	3	3	30			181.33	8.51	<LOD	19.15	<LOD	63.98	198.64	10.61	<LOD	131.65	<LOD	730.42	<LOD	30.57	<LOD	13.66	7812.14	139.09	<LOD	20.66	<LOD	43.84	<LOD	133.68	<LOD	0	487.98	43	<LOD	10.13	39.96	2.4	<LOD	105.43	<LOD	4.08	<LOD	100.26	70.72	2.99	1464.7	248.01	304.46	5.54
12-Apr-12	63	22.57	stroh 5434	159	NA	3	1	2			344	12	<LOD	25	<LOD	65	280	12	<LOD	104	<LOD	349	<LOD	31	<LOD	13	10796	168	<LOD	24	<LOD	51	238	52	<LOD	0	286	37	<LOD	10	38	2	<LOD	103	<LOD	5	<LOD	95	101	3	2575	384	229	5
12-Apr-12	63	18.78	embree 5444	157	NA	3	1	30			37.49	4.98	5.55	3.17	72.44	22.7	62.65	6.99	47.08	50.24	ND		19.55	11.9	-0.33	4.28	11362.92	185.23	41.6	8.77	-19.73	17.28	49.79	53	ND		251.4	39.71	-7.63	3.39	52	2.79	-37.05	37.15	-1.41	1.24	72.9	33.38	108.55	3.82	1635.65	325.78	277.42	5.65
12-Apr-12	64	18.36	wilder_5420	158	NA	3	3	30			209.34	9.01	<LOD	20.09	<LOD	62.96	240.43	11.51	<LOD	120.3	<LOD	702.22	<LOD	27.33	<LOD	12.91	6467.43	123.26	<LOD	22.07	<LOD	43.06	<LOD	123.53	<LOD	0	371.02	38.3	<LOD	9.95	28.18	2.11	<LOD	103.73	<LOD	4.33	<LOD	97.8	66.92	2.9	1313.65	237.63	294.64	5.4
12-Apr-12	64	25.03	stroh 5434	160	NA	1	2	0			1174	27	<LOD	52	<LOD	79	665	23	<LOD	165	<LOD	453	<LOD	49	<LOD	20	24923	358	135	14	<LOD	62	477	92	<LOD	0	395	54	12	4	30	3	<LOD	125	<LOD	7	<LOD	116	276	7	1376	455	116	4
12-Apr-12	64	19.74	embree 5444	157	NA	3	1	30			50.68	5.7	-0.64	3.42	39.5	23.55	50.05	6.7	150.44	57.62	ND		7.52	11.59	-4.53	4.11	11492.45	194.12	22.82	8.24	-45.72	17.88	2.91	54.68	ND		211.47	40.29	-6.65	3.59	52.52	2.92	34.65	38.66	-0.51	1.38	132.41	35.07	109.35	3.99	1669.84	339.8	312.05	6.25
12-Apr-12	65	18.25	wilder_5420	158	NA	3	2	30			298.4	10.4	<LOD	23.07	<LOD	60.62	202.82	10.39	<LOD	138.26	<LOD	648.97	<LOD	28.83	<LOD	11.93	7887.02	135.63	<LOD	20.68	<LOD	41.44	<LOD	130.16	<LOD	0	448.96	40.68	<LOD	9.48	34.17	2.21	<LOD	97.57	<LOD	3.77	<LOD	93.45	64.19	2.79	1194.82	222.59	225.58	4.63
12-Apr-12	65	23.98	stroh 5434	160	NA	1	2	0			1097	28	<LOD	55	<LOD	83	842	28	<LOD	177	<LOD	468	<LOD	52	<LOD	20	24536	382	117	15	<LOD	67	388	97	<LOD	0	465	60	21	4	30	3	<LOD	133	<LOD	8	<LOD	123	211	6	1476	480	85	4
12-Apr-12	65	19.08	embree 5444	157	NA	3	2	2			88.94	6.27	12.24	4.1	0.18	20.31	80.74	7.14	-35.66	37.76	ND		-1.13	9.31	-1.58	3.87	8486.25	145.6	3.35	6.19	-189.02	15.48	34.3	43.53	ND		253.57	35.33	-3.51	3.15	34.67	2.25	20.82	32.19	-0.4	1.23	7.41	29.45	71.55	3.01	1489.35	260.75	193.98	4.48
12-Apr-12	66	17.12	wilder_5420	158	NA	3	2	30			203.59	9.19	<LOD	20.71	<LOD	65.6	127.93	8.95	<LOD	131.59	<LOD	627.96	<LOD	34.09	<LOD	14.02	7333.18	136.94	<LOD	21.04	<LOD	44.98	<LOD	130.96	<LOD	0	312	37.79	<LOD	10.4	42.81	2.53	<LOD	107.01	<LOD	4.42	<LOD	102.26	78.81	3.2	1641.97	236.94	279.71	5.44
12-Apr-12	66	24.67	stroh 5434	160	NA	1	2	0			1730	42	<LOD	81	<LOD	99	979	35	<LOD	213	<LOD	581	<LOD	65	<LOD	27	27651	487	235	22	<LOD	79	708	124	<LOD	0	473	72	24	5	23	3	<LOD	157	<LOD	11	<LOD	146	170	7	1869	600	123	6
12-Apr-12	66	20.85	embree 5444	157	NA	3	2	2			80.02	6.34	-0.48	3.85	-21.96	21.2	78.15	7.43	-59.74	36.58	ND		-4.97	8.69	-3.65	3.86	5471.47	118.55	3.13	6.45	-186.87	16.41	19.78	37.48	ND		179.56	32.76	-3.98	3.28	29.09	2.24	-58.34	33.87	-1.48	1.17	-9.82	30.53	61.58	3	449.6	238.65	144.21	4.2
12-Apr-12	67	17.5	wilder_5420	158	NA	3	2	30			328.19	10.26	<LOD	23.69	<LOD	55.6	179.16	9.26	<LOD	102.97	<LOD	532.47	<LOD	24.96	<LOD	10.61	5119.64	99.21	<LOD	19.59	<LOD	38.31	<LOD	102	<LOD	0	242.79	30.29	<LOD	8.75	31.74	2.02	<LOD	88.06	<LOD	3.92	<LOD	84.17	58.66	2.54	<LOD	501.13	152.15	3.67
12-Apr-12	67	24.68	stroh 5434	160	NA	1	2	2			661	18	60	13	78	24	853	24	<LOD	147	<LOD	468	<LOD	47	<LOD	21	24570	336	101	13	<LOD	58	392	86	<LOD	0	492	54	16	4	34	3	<LOD	116	<LOD	6	<LOD	107	557	10	2336	483	158	5
12-Apr-12	67	19.41	embree 5444	157	NA	3	2	2			66.69	5.6	2.41	3.47	9.03	20.48	75.15	6.94	12.67	40.27	ND		-0.91	9.14	-0.34	3.93	6738.61	126.49	10.37	6.52	-150.62	15.65	76.88	39.96	ND		188.33	32.36	-2.2	3.13	34.77	2.25	-22.3	32.47	-0.95	1.16	7.8	29.49	67.93	2.95	719.36	241.04	164.51	4.18
12-Apr-12	68	56.71																																																				
12-Apr-12	68	24.9	stroh 5434	160	NA	1	2	2			1048	24	<LOD	48	<LOD	72	636	21	<LOD	143	<LOD	368	<LOD	43	<LOD	20	19703	285	102	12	<LOD	57	350	78	<LOD	0	270	45	24	4	23	2	<LOD	112	<LOD	7	<LOD	104	278	6	1560	393	117	4
12-Apr-12	68	20.72	embree 5444	157	NA	3	3	30			43.83	5.66	16.13	3.91	41.85	24.16	94.85	8.78	94.67	57.69	ND		10.15	13.01	1.15	4.76	15015.24	240.99	18.34	8.31	-44.53	18.57	60.26	65.07	ND		360.82	48.34	-3.5	3.64	46.39	2.88	-13.07	39.13	0.16	1.46	123.49	35.52	97.23	3.92	2089.83	356.69	206.78	5.3
12-Apr-12	69	21.82	wilder_5420	159	NA	1	1	0			743.28	21.16	<LOD	45.82	<LOD	78.19	547.04	21.46	<LOD	196.46	<LOD	972.64	<LOD	46.37	<LOD	18.5	21764.58	336.8	121.1	13.94	<LOD	54.73	<LOD	259.21	<LOD	0	531.02	60.27	<LOD	11.65	26.94	2.72	<LOD	127.66	<LOD	5.65	<LOD	122.44	288.85	7.21	967.85	308.58	159.42	5.38
12-Apr-12	69	23.19	stroh 5434	160	NA	1	2	2			1137	25	<LOD	50	<LOD	75	747	23	<LOD	152	<LOD	440	<LOD	49	<LOD	19	23302	329	113	13	<LOD	59	283	84	<LOD	0	478	54	19	4	25	2	<LOD	117	<LOD	8	<LOD	109	286	7	2427	470	136	5
12-Apr-12	69	19.54	embree 5444	157	NA	3	3	30			95.04	7.26	14.32	4.76	35.98	23.71	131.94	9.88	22.63	57.11	ND		28.37	14.32	5.16	5.06	19682.81	283.49	35.68	9.16	-10.49	18.29	11.07	71.48	ND		593.39	56.23	1.58	3.68	66.23	3.26	96.48	38.01	0.06	1.51	109.29	34.55	128.15	4.34	2104.95	374.6	284.05	6.03
12-Apr-12	70	20.53	wilder_5420	159	NA	1	1	0			747.15	21.25	<LOD	45.65	<LOD	77.66	491.2	20.3	<LOD	177.77	<LOD	988.87	<LOD	44.05	<LOD	16.22	17610.6	289.99	80.13	12.29	<LOD	54.15	<LOD	238.31	<LOD	0	418.66	54.67	<LOD	11.91	27.05	2.71	<LOD	123.75	<LOD	6.18	<LOD	119.42	226.68	6.33	<LOD	892.43	138.69	5.05
12-Apr-12	70	23.82	stroh 5434	160	NA	1	2	4			384	15	<LOD	31	<LOD	78	530	20	<LOD	140	<LOD	439	<LOD	44	<LOD	16	16771	272	31	10	<LOD	62	309	77	<LOD	0	338	49	16	4	49	3	<LOD	124	<LOD	5	<LOD	114	217	6	2040	462	216	6
12-Apr-12	70	21.33	embree 5444	157	NA	3	3	30			61.66	6.3	2.6	3.9	16.56	23.68	80.48	8.27	-1.33	50.82	ND		5.83	11.88	-2.36	4.41	12403.48	213.16	36.44	9.16	-139.77	18.17	-4.51	58.8	ND		352.03	46.72	-9.85	3.58	41.62	2.78	-23.28	38.22	-2.03	1.26	48.94	34.82	89.34	3.8	1432.13	331.45	194.04	5.18
12-Apr-12	71	21.3	wilder_5420	159	NA	1	1	0			1729.02	35.71	<LOD	70.29	<LOD	81.04	1016.16	30.67	252.87	80.25	<LOD	1081.11	<LOD	54.24	<LOD	23.29	26198.47	396.8	202.13	17.37	<LOD	57.35	<LOD	289.82	<LOD	0	313.31	57.32	<LOD	12.73	32.37	3.06	<LOD	131.46	<LOD	9.04	<LOD	127.87	222.34	6.48	<LOD	977.69	185.9	5.8
12-Apr-12	71	23.85	stroh 5434	160	NA	1	2	4			476	16	<LOD	34	<LOD	77	546	20	<LOD	130	<LOD	404	<LOD	43	<LOD	17	15395	253	38	10	<LOD	60	352	73	<LOD	0	585	56	14	4	34	3	<LOD	118	<LOD	5	<LOD	110	190	5	<LOD	1216	189	5
12-Apr-12	71	21.7	embree 5444	157	NA	3	4	30			48.92	6.42	7.16	4.1	16.74	26.14	91.42	9.46	7.06	60.15	ND		-6.22	13.79	-2.51	4.88	17624.76	293.48	26.19	9.64	-43.55	20.32	24.85	75.82	ND		401.81	55.09	-2.08	4.1	59.18	3.47	30.06	42.22	-0.36	1.58	40.74	38.71	130.12	4.88	2245.78	403.37	286.21	6.78
12-Apr-12	72	20.36	wilder_5420	159	NA	1	1	2			236.59	10.45	<LOD	23.52	<LOD	67.66	164.01	10.55	<LOD	140.31	<LOD	828.87	<LOD	35.29	<LOD	12.89	13323.41	211.06	<LOD	23.03	<LOD	47.1	<LOD	181.57	<LOD	0	349.67	43.86	<LOD	10.73	37.6	2.58	<LOD	109.59	<LOD	4.86	<LOD	104.87	175.43	4.88	1538.63	278.97	224.66	5.29
12-Apr-12	72	23.06	stroh 5434	160	NA	1	2	4			413	14	33	10	<LOD	69	580	19	<LOD	147	<LOD	390	<LOD	41	<LOD	16	17377	248	46	10	<LOD	55	289	69	<LOD	0	501	50	11	3	36	2	<LOD	110	<LOD	5	<LOD	102	214	5	2183	415	163	4
12-Apr-12	72	53.65																																																				
12-Apr-12	73	20.35	wilder_5420	159	NA	1	1	2			241.38	10.39	<LOD	23.58	<LOD	66.77	254.05	12.72	<LOD	155.68	<LOD	782.33	<LOD	31.41	<LOD	14.81	12148.55	196	<LOD	22.76	<LOD	46.24	<LOD	174.82	<LOD	0	355.04	43.41	<LOD	10.61	44.42	2.7	<LOD	106.78	<LOD	4.08	<LOD	102.94	156.34	4.55	849.1	249.6	225.93	5.21
12-Apr-12	73	23.32	stroh 5434	160	NA	1	2	6			370	13	<LOD	29	<LOD	73	618	20	<LOD	139	<LOD	385	<LOD	42	<LOD	17	14948	232	52	10	<LOD	56	328	68	<LOD	0	451	49	13	4	37	3	<LOD	115	<LOD	5	<LOD	105	201	5	2053	413	177	5
12-Apr-12	73	21.18	embree 5444	157	NA	3	4	30			40.6	5.75	1.86	3.51	26.5	24.79	69.4	8.05	52.96	56.68	ND		0.32	12.51	8.44	5.49	14639.05	245.36	-7.63	7.13	-68.69	19.13	-34.21	65.24	ND		379.33	50.38	9.09	4.04	62.35	3.37	-2.77	40.29	-0.85	1.45	72.74	36.54	108.11	4.27	2556.85	375.11	313.83	6.74
12-Apr-12	74	20.48	wilder_5420	159	NA	1	1	2			278.28	10.99	29.82	8.62	<LOD	64.3	213.5	11.6	<LOD	152.37	<LOD	770.54	<LOD	35.16	<LOD	14.27	13478.38	207.3	<LOD	22.59	<LOD	45.14	<LOD	179.15	<LOD	0	291.16	41.1	<LOD	10.37	40.41	2.57	<LOD	102.79	<LOD	4.68	<LOD	99.23	108.63	3.79	1139.07	254.58	176.97	4.59
12-Apr-12	74	23.07	stroh 5434	160	NA	1	2	6			361	12	<LOD	26	<LOD	64	605	18	<LOD	115	<LOD	316	<LOD	35	<LOD	12	11364	177	<LOD	23	<LOD	50	233	54	<LOD	0	321	39	13	3	25	2	<LOD	98	<LOD	5	<LOD	91	139	4	1357	332	125	4
12-Apr-12	74	20.62	embree 5444	157	NA	3	4	30			57.59	6.18	-2.09	3.67	-6.31	24.15	81.7	8.26	31.32	55.16	ND		-6.07	12.01	4.39	5.01	14234.71	232.13	3.87	7.49	-25.02	18.66	48.58	63.3	ND		370.12	48.35	3.93	3.78	57.19	3.13	-59.91	39.31	-0.26	1.45	88.57	35.31	111.48	4.17	1453.54	350.03	266.24	5.98
12-Apr-12	75	20.64	wilder_5420		2711						1149.18	26.13	108.83	19.02	<LOD	75.94	311.81	15.72	<LOD	197.6	1089.79	359.02	<LOD	49.34	<LOD	21.15	24543.3	353.76	105.36	12.83	<LOD	53.35	<LOD	274.01	<LOD	0	407.09	55.58	<LOD	12.25	111.96	4.49	<LOD	120.83	<LOD	7.6	<LOD	115.17	247.8	6.41	1280.03	334.55	249.84	6.17
12-Apr-12	75	23.52	stroh 5434	160	NA	1	2	6			398	14	<LOD	30	<LOD	74	621	21	<LOD	134	<LOD	411	<LOD	40	<LOD	18	16906	257	35	10	<LOD	57	251	71	<LOD	0	467	50	16	4	36	3	<LOD	116	<LOD	5	<LOD	108	186	5	1819	426	182	5
12-Apr-12	75	20.41	embree 5444	180	NA	1	1	0			139.1	8.42	5.92	5.27	11.48	23.19	137.4	9.96	33.43	50.16	ND		5.56	11.85	-1.99	4.45	12088.11	202.88	4.47	7.31	-76.61	17.88	47.84	57.19	ND		516.61	50.75	3.45	3.66	44.37	2.77	66.37	37.34	-0.02	1.49	59.27	33.69	114.4	4.11	2138.99	328.07	252	5.67
12-Apr-12	76	20.62	wilder_5420		2586						403.08	15.3	<LOD	33.79	<LOD	77.96	299.18	15.84	287.7	89.01	1783.18	464.43	<LOD	66.33	<LOD	18.64	46523.04	601	74.51	12.17	<LOD	55.33	490.81	129.42	<LOD	0	644.31	72.86	<LOD	12.45	43.72	3.1	<LOD	127.51	<LOD	5.81	<LOD	121.78	82.62	3.94	3323.1	454.8	233.02	5.98
12-Apr-12	76	22.93	stroh 5434	179	NA	3	1	30			91	7	<LOD	15	<LOD	69	133	9	<LOD	134	<LOD	430	<LOD	38	<LOD	14	16456	237	<LOD	22	<LOD	54	263	66	<LOD	0	411	46	11	4	55	3	<LOD	111	<LOD	4	<LOD	102	106	4	3403	468	326	6
12-Apr-12	76	20.2	embree 5444	180	NA	1	1	0			112.78	7.65	7.49	4.84	14.46	23.01	93.68	8.42	-28.26	46.43	ND		-11.05	11.36	-0.68	4.48	11807.1	197.91	18.85	7.95	-81.74	17.68	156.14	57.72	ND		503.33	49.62	0.25	3.59	48.96	2.84	6.17	37.22	1.37	1.56	97.9	34.22	110.53	4.01	2153.64	331.59	253.01	5.63
12-Apr-12	77	19.3	wilder_5420	159	NA	1	2	0			401.98	13.03	<LOD	29.13	<LOD	66	556.23	18.33	<LOD	145.27	<LOD	747.73	<LOD	34.13	<LOD	13.41	11320.88	182.96	44.76	9.02	<LOD	45.62	<LOD	165.72	<LOD	0	288.95	39.79	<LOD	10.18	37.65	2.49	<LOD	108.35	<LOD	5.2	<LOD	103.54	132.31	4.11	737.87	237.65	236.57	5.18
12-Apr-12	77	22.94	stroh 5434	179	NA	3	1	30			72	6	<LOD	14	<LOD	68	132	9	<LOD	124	<LOD	380	<LOD	36	<LOD	13	14186	210	<LOD	23	<LOD	53	248	61	<LOD	0	345	42	<LOD	10	49	3	<LOD	108	<LOD	4	<LOD	99	98	4	2995	423	270	5
12-Apr-12	77	20.37	embree 5444	180	NA	1	1	0			128.7	8.1	3.06	5.02	27.39	23.27	164.95	10.76	21.77	48.79	ND		14.45	12.17	4.02	4.91	11250.59	192.83	13.78	7.81	-78.2	17.79	67.22	55.4	ND		564.61	51.71	5.39	3.63	46.87	2.81	30	37.47	-1.21	1.38	42.1	34.12	105.94	3.95	1801.34	313.5	225.18	5.35
12-Apr-12	78	18.19	wilder_5420	159	NA	1	2	0			847.21	20.16	<LOD	42.15	<LOD	69.2	482.34	17.84	<LOD	166.98	<LOD	778.42	<LOD	39.38	<LOD	18.16	14533.54	224.61	95.2	11.42	<LOD	47.9	<LOD	190.83	<LOD	0	256.88	41.9	<LOD	10.27	17.98	2.15	<LOD	111.59	<LOD	6.15	<LOD	107.39	201.07	5.27	1053.84	257.66	118.75	4.21
12-Apr-12	78	23.06	stroh 5434	179	NA	3	1	30			40	6	<LOD	12	<LOD	72	62	7	<LOD	128	<LOD	428	<LOD	39	<LOD	14	17249	251	<LOD	23	<LOD	56	382	71	<LOD	0	240	41	15	4	59	3	<LOD	115	<LOD	5	<LOD	106	109	4	3447	474	350	6
12-Apr-12	78	21.91	embree 5444	180	NA	1	3	30			108.12	8.44	18.62	5.62	4.24	26.03	104.84	9.91	100.32	62.88	ND		10.12	12.78	-2.57	4.93	12338.56	228.61	22.13	9.34	-44.74	20.15	-95.98	61.6	ND		478.06	55.81	3.71	4.15	56.67	3.38	-34.9	42.19	-0.39	1.63	46.42	38.42	100.16	4.31	1715.97	389.56	300.53	6.88
12-Apr-12	79	17.88	wilder_5420	159	NA	1	2	0			547.39	15.37	<LOD	33.37	<LOD	66.02	388.61	15.43	<LOD	155.16	<LOD	782.63	<LOD	34.93	<LOD	14.62	12926.38	200.79	55.31	9.48	<LOD	46.01	<LOD	175.6	<LOD	0	387.45	44.2	<LOD	10.26	34.69	2.45	<LOD	107.09	<LOD	5.2	<LOD	102.36	141.18	4.27	<LOD	726.15	188.84	4.73
12-Apr-12	79	22.21	stroh 5434	179	NA	3	2	30			173	8	<LOD	17	<LOD	64	451	15	<LOD	113	<LOD	357	<LOD	36	<LOD	13	13091	186	<LOD	21	<LOD	50	269	55	<LOD	0	341	39	11	3	38	2	<LOD	101	<LOD	4	<LOD	93	87	3	2379	381	219	4
12-Apr-12	79	19.95	embree 5444	180	NA	1	3	30			99.57	7.49	5.8	4.71	27.53	24	103.77	9.04	109.87	57.9	ND		-14.55	12.43	8.68	5.37	13537.92	221.89	13.09	8.05	-12.75	18.51	222.68	63.87	ND		531.98	53.21	7.96	3.89	70.17	3.38	-56.74	39.27	0.53	1.58	111.31	35.79	117.9	4.24	3076.15	386.85	372.59	7.06
12-Apr-12	80	18.44	wilder_5420	159	NA	1	2	4			195.33	8.84	<LOD	19.75	<LOD	64.04	174.88	10.07	<LOD	141.47	<LOD	755.82	<LOD	31.7	<LOD	13.26	10102.8	163.39	<LOD	22.17	<LOD	43.92	<LOD	148.62	<LOD	0	304.39	38.33	<LOD	9.82	42.69	2.49	<LOD	103.92	<LOD	3.92	<LOD	99.08	146.49	4.13	817.81	237.42	248.03	5.09
12-Apr-12	80	44.34																																																				
12-Apr-12	80	20.76	embree 5444	180	NA	1	3	30			104.22	7.81	7.78	4.96	41.2	24.51	127.79	10.14	97.34	58.24	ND		1.09	12.87	-2.05	4.69	13639.01	229.81	24.95	8.95	-15.1	19.06	83.92	63.83	ND		555.12	55.36	5.73	3.96	63.06	3.33	21.95	40.25	-2.64	1.35	4.11	36.44	113.6	4.29	2999.26	387.25	341.49	6.93
12-Apr-12	81	18.36	wilder_5420	159	NA	1	2	4			232.05	9.06	<LOD	20.19	<LOD	58.31	138.8	8.64	<LOD	123.76	<LOD	597.29	<LOD	25.76	<LOD	12.51	7260.65	126.61	21.65	7.12	<LOD	40.4	<LOD	121.65	<LOD	0	184.11	30.67	<LOD	9.05	28.72	2.05	<LOD	93.01	<LOD	3.51	<LOD	89.91	120.66	3.58	<LOD	541.77	143.4	3.81
12-Apr-12	81	23.44	stroh 5434		2711						1225	27	88	18	<LOD	77	327	16	<LOD	164	<LOD	435	<LOD	47	<LOD	22	24869	351	60	12	<LOD	60	371	89	<LOD	0	389	53	16	4	110	4	<LOD	118	<LOD	8	<LOD	109	230	6	2718	480	230	6
12-Apr-12	81	55.93																																																				
12-Apr-12	82	17.8	wilder_5420	159	NA	1	2	4			222.7	9.16	<LOD	20.59	<LOD	60.26	144.25	9.05	<LOD	110.83	<LOD	605.08	<LOD	25.88	<LOD	12.32	6373.85	120.86	<LOD	21.62	<LOD	41.61	<LOD	115.21	<LOD	0	133.42	28.72	<LOD	9.32	26.29	2.05	<LOD	94.98	<LOD	3.67	<LOD	91.12	100.26	3.39	<LOD	542.25	123.06	3.7
12-Apr-12	82	23.8	wilder 5434	218	blank	1	1	0			193	8	<LOD	18	<LOD	62	101	7	<LOD	102	<LOD	334	<LOD	31	<LOD	11	10750	160	<LOD	20	<LOD	48	174	49	<LOD	0	742	48	10	3	44	2	<LOD	97	<LOD	4	<LOD	90	101	3	2549	366	272	5
12-Apr-12	82	20.07	embree 5444		NIST 2586						417.81	15.53	21.94	9.63	7.59	25.85	383.77	17.79	233.52	88.55	ND		38.81	21.86	0.82	5.7	47888.91	618.83	57.17	11.64	-2.2	20.37	347.07	123.5	ND		679.76	74.41	-2	3.97	50.31	3.23	16.82	42.27	-2.31	1.81	29.76	38.41	74.91	3.79	4838.49	553.6	233.18	5.95
12-Apr-12	83	20.45	wilder_5420	160	NA	1	1	0			1941.99	41.25	<LOD	80.08	<LOD	87.28	1105.57	34.47	<LOD	256.13	<LOD	1247.08	<LOD	69.54	<LOD	23.97	42352.19	619.3	213.12	19.1	<LOD	62.03	<LOD	399.64	<LOD	0	547.45	75.53	<LOD	13.67	18.31	2.89	<LOD	142.03	<LOD	10.1	<LOD	137.56	237.77	7.2	1223.37	390.66	145.9	5.72
12-Apr-12	83	22.71	wilder 5434	218	blank	1	1	0			132	7	<LOD	16	<LOD	64	94	8	<LOD	99	<LOD	331	<LOD	34	<LOD	13	10135	161	<LOD	20	<LOD	49	<LOD	145	<LOD	0	836	52	11	3	43	2	<LOD	100	<LOD	4	<LOD	92	87	3	2318	364	283	5

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

In-Situ XRF Data

Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment		Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
12-Apr-12	83	20.78	embree 5444	160	NA	1	1	0 precision check			1073.05	26.83	43.55	15.6	30.83	27.09	937.35	29.33	79.71	75.56	ND		11.33	18.38	13.87	7.69	30694.98	449.28	258.38	19.2	-0.65	21.07	168.14	102.28	ND		435.97	63.61	12.45	4.11	22.82	2.68	36.33	43.57	-1.97	2.41	82.56	40.05	235.47	6.69	373.87	383.25	97.56	4.66
12-Apr-12	84	20.84	wilder_5420	160	NA	1	1	0			1172.13	28.7	<LOD	60.03	<LOD	81.13	643.64	24.49	<LOD	193.36	<LOD	1045.79	<LOD	50.87	<LOD	21.39	21999.13	355.27	187.33	17.07	<LOD	57.03	<LOD	273.07	<LOD	0	337.23	55.97	<LOD	12.59	22.79	2.76	<LOD	128.82	<LOD	7.6	<LOD	125.07	233.02	6.73	1712.53	350.78	91.01	4.68
12-Apr-12	84	23.37	wilder 5434	218	blank	1	1	0			167	9	<LOD	20	<LOD	70	144	10	<LOD	124	<LOD	378	<LOD	33	<LOD	13	11911	194	<LOD	24	<LOD	54	<LOD	172	<LOD	0	934	60	<LOD	11	47	3	<LOD	109	<LOD	5	<LOD	100	107	4	2708	419	255	5
12-Apr-12	84	20.86	embree 5444	160	NA	1	1	0 precision check			1042.98	26.29	70.97	15.6	39.42	26.89	878.76	28.21	58.53	72.31	ND		26.18	18.79	-2.5	6.54	29971.04	439.48	247.46	18.81	-9.76	20.92	165.22	100.74	ND		356.76	60.1	5.27	4.01	25.78	2.75	-37.71	44.38	-3.12	2.31	72.46	39.88	233.78	6.64	999.13	380.41	91.47	4.56
12-Apr-12	85	20.31	wilder_5420	160	NA	1	1	0			938.42	24.76	<LOD	52.97	<LOD	80.47	886.23	28.5	<LOD	223.35	<LOD	1044.82	<LOD	54.17	<LOD	20.62	21698.69	344.96	279.08	19.67	<LOD	56.57	<LOD	268.15	<LOD	0	272.84	53.34	13.09	4.12	20.95	2.61	<LOD	131.24	<LOD	6.9	<LOD	125.46	190.78	5.95	<LOD	922.48	68.84	4.22
12-Apr-12	85	24.02	wilder 5434	218	blank	1	1	2			126	7	<LOD	15	<LOD	60	106	8	<LOD	101	<LOD	336	<LOD	29	<LOD	11	9332	147	<LOD	18	<LOD	47	185	46	<LOD	0	982	53	<LOD	9	40	2	<LOD	95	<LOD	4	<LOD	87	85	3	2430	363	257	5
12-Apr-12	85	20.9	embree 5444	160	NA	1	1	0 precision check			1037.48	26.15	37.16	15.21	25.89	26.8	884.05	28.25	64.03	71.62	ND		52.78	20.28	6.73	7.11	30015.55	438.99	254.17	19.03	-9.07	20.87	268.83	101.76	ND		305.4	58.1	6.94	4.01	21.16	2.61	85.78	43.58	-3.51	2.26	69.5	39.8	231.9	6.6	1546.49	387.35	90.79	4.53
12-Apr-12	86	20.3	wilder_5420	160	NA	1	1	2			381.44	14.76	51.77	11.64	<LOD	75.88	498.68	20.15	<LOD	186.27	<LOD	913.11	<LOD	42.72	<LOD	17.06	19531.24	307.19	84.84	12.21	<LOD	52.79	<LOD	247.71	<LOD	0	358.24	52.53	<LOD	11.96	29.57	2.77	<LOD	121.48	<LOD	5.75	<LOD	116.63	511.53	9.93	1591.84	311.84	179.08	5.8
12-Apr-12	86	22.93	wilder 5434	218	blank	1	1	2			124	7	<LOD	16	<LOD	64	90	7	<LOD	119	<LOD	324	<LOD	28	<LOD	13	8113	142	<LOD	21	<LOD	50	163	45	<LOD	0	825	52	<LOD	10	33	2	<LOD	100	<LOD	4	<LOD	92	104	3	2538	367	258	5
12-Apr-12	86	20.78	embree 5444	160	NA	1	1	0 precision check			1034.25	26.25	57.59	15.46	34.75	26.99	892.88	28.53	-46.62	66.93	ND		9.31	18.36	9.59	7.36	30394.88	445.5	236.83	18.52	4.86	21.05	206.42	102.15	ND		316.87	58.62	6.88	4.05	26.62	2.78	-14.44	44.07	-0.46	2.47	67.17	39.9	226.53	6.55	1101.47	381.3	99.7	4.67
12-Apr-12	87	22.26	wilder_5420	160	NA	1	1	2			937.15	24.22	<LOD	51.75	<LOD	76.64	1301.56	34.36	<LOD	183.39	<LOD	918.17	<LOD	47.26	<LOD	19.58	16613.02	279.94	165.96	15.72	<LOD	54.28	<LOD	240.67	<LOD	0	490.46	57.1	14.17	4.17	27.33	2.76	<LOD	123.29	<LOD	7.06	<LOD	117.94	255.47	6.78	1523.83	313.18	146.67	5.22
12-Apr-12	87	22.64	wilder 5434	218	blank	1	1	2			119	7	<LOD	17	<LOD	67	82	7	<LOD	116	<LOD	376	<LOD	35	<LOD	15	11506	181	<LOD	22	<LOD	52	173	54	<LOD	0	741	52	<LOD	10	56	3	<LOD	108	<LOD	4	<LOD	99	100	4	3414	428	381	6
12-Apr-12	87	20.8	embree 5444	160	NA	1	1	0 precision check			1103.17	27.36	70.76	16.11	22.5	27.09	890.78	28.63	-14.95	69.92	ND		19.27	18.54	-1.67	6.71	31181.23	456.39	271.38	19.66	16.46	21.23	94.49	102.55	ND		336.89	60.11	9.72	4.09	19.17	2.58	85.08	44.78	-3.26	2.37	49.76	40.4	232.67	6.67	1049.95	390.18	92.48	4.6
12-Apr-12	88	21.62	wilder_5420	160	NA	1	1	2			696.86	19.3	<LOD	42.8	<LOD	70.93	518.81	19.7	<LOD	153.94	<LOD	838.08	<LOD	39.38	<LOD	15.71	15816.77	253.91	95.95	12.19	<LOD	50.08	<LOD	208.67	<LOD	0	309.97	46.64	<LOD	11.44	27.1	2.57	<LOD	112.67	<LOD	5.89	<LOD	108.98	335.56	7.4	<LOD	790.92	154.92	5.08
12-Apr-12	88	22.81	wilder 5434	218	blank	1	1	4			178	9	<LOD	19	<LOD	68	124	9	<LOD	109	<LOD	379	<LOD	32	<LOD	14	11190	179	<LOD	21	<LOD	52	164	54	<LOD	0	858	55	<LOD	10	56	3	<LOD	107	<LOD	5	<LOD	99	106	4	2853	416	342	6
12-Apr-12	88	20.71	embree 5444	160	NA	1	1	0 precision check			1014.7	26.08	63.38	15.46	11.99	27.04	911.6	29.02	114.82	75.46	ND		19.57	18.49	1.29	6.84	30036.3	443.77	276.45	19.8	-10.22	21.08	125.24	101.19	ND		304.88	58.96	12.78	4.13	27.34	2.82	-97.88	43.7	-4.23	2.24	13.89	40.38	231.73	6.66	1465.98	398.73	92.93	4.61
12-Apr-12	89	20.16	wilder_5420	160	NA	1	1	4			444.63	15.16	<LOD	33.69	<LOD	70.2	599.38	21.07	<LOD	149.95	<LOD	910.88	<LOD	40.56	<LOD	15.16	16224.48	257.11	55.19	10.51	<LOD	49.61	<LOD	214.57	<LOD	0	338.05	47.57	<LOD	11.35	40.2	2.84	<LOD	111.09	<LOD	5.32	<LOD	106.47	164.69	5.05	960.57	287.4	156.09	4.86
12-Apr-12	89	23.32	wilder 5434	218	blank	1	1	4			119	8	<LOD	16	<LOD	67	89	8	<LOD	115	<LOD	345	<LOD	31	<LOD	13	7908	145	<LOD	22	<LOD	52	<LOD	137	<LOD	0	670	50	<LOD	10	30	2	<LOD	104	<LOD	4	<LOD	96	85	3	2654	389	214	5
12-Apr-12	89	20.79	embree 5444	160	NA	1	1	0 precision check			1058.21	26.66	78.55	15.86	37.39	27.12	936.74	29.35	38.09	72.96	ND		37.52	19.27	0.61	6.86	30886.28	452.16	243.54	18.83	-15.85	21.02	99.44	101.96	ND		384.79	61.79	1.63	3.99	28.06	2.84	-6.01	44.27	-0.94	2.48	45.86	39.77	245.7	6.85	1183.27	403.53	93.39	4.62
12-Apr-12	90	21.28	wilder_5420	160	NA	1	1	4			399.22	13.68	<LOD	30.58	<LOD	66.67	582.99	19.8	<LOD	152.43	<LOD	755.88	<LOD	36.42	<LOD	16.16	15013.95	232.59	43.85	9.53	<LOD	46.8	<LOD	191.46	<LOD	0	338.56	44.98	<LOD	10.99	33.3	2.53	<LOD	103.45	<LOD	4.76	<LOD	100.9	192.43	5.2	<LOD	711.87	155.97	4.66
12-Apr-12	90	23.57	wilder 5434	218	blank	1	1	4			141	9	<LOD	19	<LOD	72	127	10	<LOD	128	<LOD	403	<LOD	37	<LOD	16	10790	187	<LOD	23	<LOD	56	253	58	<LOD	0	781	57	<LOD	11	52	3	<LOD	112	<LOD	5	<LOD	103	92	4	2881	444	317	6
12-Apr-12	91	22.48	wilder_5420	160	NA	1	1	4			499.94	16.86	<LOD	38.46	<LOD	73.27	752.91	24.87	<LOD	179.08	<LOD	855.51	<LOD	41.45	<LOD	15.74	15276.47	258.54	108.57	13.23	<LOD	51.74	<LOD	219.39	<LOD	0	436.49	53.35	<LOD	11.96	31.89	2.76	<LOD	116.67	<LOD	6.42	<LOD	111.99	212.49	6.01	<LOD	809.21	143.85	5
12-Apr-12	91	23.27	wilder 5434	218	blank	1	1	6			129	8	<LOD	17	<LOD	67	109	8	<LOD	114	<LOD	363	<LOD	31	<LOD	13	8892	157	<LOD	21	<LOD	52	<LOD	144	<LOD	0	669	50	11	3	43	2	<LOD	107	<LOD	4	<LOD	97	84	3	2512	398	267	5
12-Apr-12	92	20.66	wilder_5420	160	NA	1	1	6			315.34	12.77	<LOD	28.8	<LOD	70.47	407.26	17.32	<LOD	142.48	<LOD	711.46	<LOD	33.27	<LOD	16.84	10057.32	188.27	<LOD	24.11	<LOD	49.5	<LOD	177.61	<LOD	0	272.17	42.2	<LOD	11.41	30.35	2.56	<LOD	109.96	<LOD	4.39	<LOD	107.17	134.94	4.6	<LOD	688.68	153.03	4.79
12-Apr-12	92	23.46	wilder 5434	218	blank	1	1	6			169	8	<LOD	17	<LOD	62	117	8	<LOD	104	<LOD	339	<LOD	30	<LOD	14	8763	139	<LOD	18	<LOD	48	204	45	<LOD	0	655	45	<LOD	9	43	2	<LOD	98	<LOD	4	<LOD	91	85	3	2090	356	328	5
12-Apr-12	93	21.73	wilder_5420	160	NA	1	1	6			412.17	14.31	<LOD	31.63	<LOD	69.49	516.61	19.16	<LOD	165.8	<LOD	823.25	<LOD	40.12	<LOD	17.84	15003.43	239.25	50.29	10.11	<LOD	48.02	<LOD	203.48	<LOD	0	259.81	43.67	<LOD	11.29	33.75	2.62	<LOD	107.49	<LOD	5.16	<LOD	104.65	190.49	5.33	<LOD	766.96	145.9	4.68
12-Apr-12	93	22.86	wilder 5434	218	blank	1	1	6			118	7	<LOD	15	<LOD	64	90	7	<LOD	95	<LOD	333	<LOD	29	<LOD	12	8282	142	<LOD	18	<LOD	49	<LOD	134	<LOD	0	603	45	<LOD	10	36	2	<LOD	99	<LOD	4	<LOD	91	70	3	2061	357	237	5
12-Apr-12	94	21.51	wilder_5420	160	NA	1	1	6			468.6	15.4	38.52	11.79	<LOD	70.32	917.39	26.1	<LOD	170.46	<LOD	808.53	<LOD	43.61	<LOD	17.16	15811.68	249.88	59.66	10.67	<LOD	49.09	<LOD	213.39	<LOD	0	368.02	48.33	<LOD	11.17	35.1	2.71	<LOD	109.62	<LOD	5.05	<LOD	106.91	331.04	7.22	1206.21	272.41	174.17	5.2
12-Apr-12	94	23.52	wilder 5434	218	blank	3	3	30			111	8	<LOD	17	<LOD	77	127	10	<LOD	134	<LOD	443	<LOD	44	<LOD	17	15913	252	<LOD	27	<LOD	60	418	73	<LOD	0	570	54	<LOD	12	57	3	<LOD	123	<LOD	5	<LOD	112	104	4	3287	491	332	6
12-Apr-12	95	18.75	wilder_5420	160	NA	1	1	8			148.88	7.31	<LOD	16.73	<LOD	54.2	183.19	9.6	<LOD	113.67	<LOD	521.3	<LOD	20.39	<LOD	9.84	4130.77	90.67	<LOD	16.82	<LOD	38.14	<LOD	89.52	<LOD	0	75.78	23.92	<LOD	8.85	18.12	1.74	<LOD	80.82	<LOD	3.44	<LOD	78.47	57.45	2.59	<LOD	469.26	71.84	2.96
12-Apr-12	95	23.38	wilder 5434	218	blank	3	3	30			106	8	<LOD	17	<LOD	71	146	10	<LOD	124	<LOD	403	<LOD	38	<LOD	14	14036	219	<LOD	22	<LOD	55	352	65	<LOD	0	485	48	<LOD	11	49	3	<LOD	113	<LOD	5	<LOD	103	92	4	2647	436	285	6
12-Apr-12	95	20.42	stroh 5444	218	NA	3	4	30			256.09	11.89	12.16	7.44	7.84	25.66	348.37	16.44	-20.91	55.84	ND		19.52	14.62	1.23	5.43	15397.18	254.59	26.24	9.53	3.13	19.64	67.89	68.8	ND		214.15	45.1	-3.31	4.05	64.65	3.45	4.66	42.47	0.48	1.82	74.48	38.54	108.42	4.3	3155.54	423.65	421.25	7.96
12-Apr-12	96	21.29	wilder_5420	160	NA	3	1	30			169.95	9.31	<LOD	21.31	<LOD	69.72	164.3	10.96	<LOD	174.54	<LOD	907.08	<LOD	37.84	<LOD	13.91	12421.93	209.17	<LOD	23.92	<LOD	48.98	<LOD	184.48	<LOD	0	375.44	46.77	<LOD	10.97	38.62	2.68	<LOD	113.62	<LOD	4.38	<LOD	108.74	107.58	4.02	942.97	282.49	196.28	5.1
12-Apr-12	96	23.37	wilder 5434	218	blank	3	3	30			144	9	<LOD	19	<LOD	76	113	9	<LOD	136	<LOD	445	<LOD	41	<LOD	14	14649	235	<LOD	24	<LOD	59	<LOD	199	<LOD	0	623	55	<LOD	12	60	3	<LOD	122	<LOD	5	<LOD	112	109	4	4151	512	392	7
12-Apr-12	96	20.11	stroh 5444	218	NA	3	4	30			163.62	9.36	0.85	5.74	4.33	24.42	189.05	11.91	-13.38	52.37	ND		-2.6	11.93	6.78	5.45	12705.99	216.22	12.6	8.33	-14.44	18.85	-41.49	59.27	ND		426.69	50.11	-0.5	4.02	53.78	3.08	24.31	40.37	-0.08	1.65	78.83	36.37	102.88	4.06	2973.78	395.84	504.77	8.57
12-Apr-12	97	19.96	wilder_5420	160	NA	3	1	30			220.9	10.58	<LOD	23.7	<LOD	69.62	178.2	11.48	<LOD	145.17	<LOD	807.21	<LOD	37.28	<LOD	16.37	9536.07	178.22	<LOD	25.61	<LOD	48.78	<LOD	166.66	<LOD	0	336.5	43.84	<LOD	11.29	38.2	2.7	<LOD	114.73	<LOD	4.96	<LOD	109.07	94.8	3.84	1003.36	264.29	211.46	5.3
12-Apr-12	97	23.39	wilder 5434		5861						43	6	37	5	<LOD	77	92	15	744	76	<LOD	370	809	37	<LOD	15	14324	232	4155	72	<LOD	59	<LOD	197	<LOD	0	<LOD	116	<LOD	10	17	2	<LOD	124	<LOD	5	<LOD	112	89	4	<LOD	1098	70	3
12-Apr-12	97	20.6	stroh 5444	218	NA	3	4	30			218.19	10.78	1.55	6.61	24.09	24.66	242.16	13.55	21.63	55.33	ND		17.39	13.95	-0.54	5.01	13959.34	233.64	42.95	9.98	-58.96	18.89	94.34	64.82	ND		458.33	52.37	2.35	3.97	61.49	3.31	79.82	39.86	-2.13	1.53	76.34	36.16	102.72	4.11	1848.99	359.25	379.34	7.34
12-Apr-12	98	18.94	wilder_5420	160	NA	3	1	30			236.63	10.33	<LOD	23.28	<LOD	66.64	195.66	11.31	<LOD	144.52	<LOD	705.24	<LOD	33.27	<LOD	13.02	10095.26	174.89	<LOD	21.24	<LOD	45.88	<LOD	160.64	<LOD	0	263.94	39.12	<LOD	10.39	42.81	2.66	<LOD	107.11	<LOD	4.37	<LOD	103	81.34	3.41	1220.1	245.54	192.27	4.8
12-Apr-12	98	22.96	wilder 5434		blank						<LOD	9	<LOD	6	<LOD	62	<LOD	9	<LOD	71	<LOD	217	<LOD	15	<LOD	11	<LOD	48	<LOD	16	<LOD	48	<LOD	25	<LOD	0	<LOD	48	13	3	<LOD	3	<LOD	96	<LOD	3	<LOD	88	<LOD	4	<LOD	600	7	2
12-Apr-12	98	19.16	stroh 5444	218	NA	3	1	30			459.05	14.38	3.99	8.67	25.45	22.64	546.34	18.7	61	54.57	ND		0.06	12.66	0.17	5.01	16448.23	242.11	24.31	8.35	-89.82	17.32	146.27	65.4	ND		751.84	57.9	-1.1	3.48	56.08	2.97	-3.94	36.08	-0.78	1.67	71.15	32.99	115.99	4.02	2057.81	341.42	231.41	5.28
12-Apr-12	99	19.42	wilder_5420	179	NA	1	1	0			112.59	7.61	<LOD	17.4	<LOD	68.41	174.81	11.05	<LOD	152.55	1092.36	295.74	<LOD	30.59	<LOD	15.09	8200.11	157.3	39.73	9.14	<LOD	47.6	<LOD	151.21	<LOD	0	379.24	43.85	<LOD	10.47	23.34	2.2	<LOD	111.1	<LOD	4	<LOD	106.48	88.97	3.61	<LOD	814.91	136.17	4.28
12-Apr-12	99	23.24	wilder 5434		4315						288	11	<LOD	24	<LOD	69	900	23	<LOD	111	<LOD	311	<LOD	27	<LOD	14	3059	86	119	12	<LOD	54	<LOD	91	<LOD	0	620	47	<LOD	9	10	2	<LOD	108	<LOD	4	<LOD	101	325	6	<LOD	844	39	3
12-Apr-12	99	18.57	stroh 5444	218	NA	3	1	30			371.14	12.51	10.07	7.68	28.59	22.1	391.01	15.3	51.21	50.36	ND		12.17	11.94	-4.2	4.39	13607.77	206.15	22.77	7.91	-86.32	16.75	77.77	57.28	ND		604.45	51.14	-3.04	3.34	42.74	2.58	-80.73	35.48	0.1	1.6	38.4	32.46	107.94	3.76	1617.14	309.08	225.75	5.05
12-Apr-12	100	19.85	wilder_5420	179	NA	1	1	0			105.15	7.67	<LOD	17.54	<LOD	71.72	143.57	10.47	<LOD	153.19	<LOD	868.35	<LOD	34.43	<LOD	12.56	10466.48	189.83	<LOD	25.06	<LOD	50.19	<LOD	169.07	<LOD	0	365.49	45.65	<LOD	11.12	25.08	2.34	<LOD	116.18	<LOD	3.47	<LOD	111.18	96.71	3.88	1098.14	279.87	169.9	4.85
12-Apr-12	100	22.45	wilder 5434		2710						2542	38	295	24	<LOD	65	3192	50	<LOD	126	<LOD	381	<LOD	39	48	9	18220	253	1335	34	<LOD	51	<LOD	203	<LOD	0	4705	126	16	3	58	3	<LOD	99	<LOD	8	<LOD	92	158	4	<LOD	1105	66	3
12-Apr-12	100	20.76	stroh 5444	218	NA	3	1	30			216	10.77	1.22	6.6	5.03	24.99	305.01	15.15	37.34	57.17	ND		4.16	12.94	10.91	5.91	14049.02	235.78	7.65	8.12	-7.14	19.25	47.39	64.49	ND		349.47	48.93	5.57	3.89	49.25	3.04	-50.31	40.76	-3.15	1.42	132.22	36.8	100.16	4.08	1749.46	371.59	262.82	6.08
12-Apr-12	101	20.25	wilder_5420	179	NA	1	1	0			136.66	8.06	<LOD	18.95	<LOD	68.01	172.06	10.65	<LOD	141.91	<LOD	716.65	<LOD	33.62	<LOD	13.03	10684.14	180.71	<LOD	23.3	<LOD	46.73	<LOD	165.81	<LOD	0	494.52	47.07	<LOD	10.44	26.17	2.23	<LOD	108.99	<LOD	4.3	<LOD	105.72	102.96	3.74	1025.61	241.89	163.93	4.5
12-Apr-12	101	23.27	wilder 5434		2586						453	16	<LOD	34	<LOD	82	325	16	237	76	<LOD	645	<LOD	64	<LOD	19	50858	645	40	11	<LOD	64	862	133	<LOD	0	833	77	<LOD	12	48	3	<LOD	132	<LOD	7	<LOD	121	81	4	8130	752	233	6
12-Apr-12	101	19.76	stroh 5444	218	NA	3	2	30			127.72	8.02	0.63	4.91	-12.01	23.12	177.96	11.05	65.5	53.46	ND		10.71	12.44	0.93	4.65	13702.55	217.39	21.87	8.22	-89.89	17.59	65	60.09	ND		430.41	48.28	-1.52	3.61	56.04	2.99	39.52	37.51	-0.62	1.43	49.38	33.62	92.82	3.7	2069.85	340.64	296.07	6.04
12-Apr-12	102	21.33	wilder_5420	179	NA	1	1	2			99.98	7.6	<LOD	16.49	<LOD	73.34	134.77	10.24	<LOD	158.36	<LOD	889.58	<LOD	37.36	<LOD	15.81	9922.14	184.9	<LOD	23.14	<LOD	50.92	<LOD	170.07	<LOD	0	450.88	48.96	<LOD	11.45	29.59	2.49	<LOD	120.55	<LOD	4.35	<LOD	114.53	81.2	3.64	1031.15	282.84	221.4	5.46
12-Apr-12	102	23.19	wilder 5434		2711						1239	27	62	18	92	26	315	15	<LOD	158	<LOD	492	<LOD	46	<LOD	22	25756	357	55	12	<LOD	61	456	91	<LOD	0	515	57	<LOD	11	109	4	<LOD	123	<LOD	7	<LOD	113	250	6	2110	498	238	6
12-Apr-12	102	18.19	stroh 5444	218	NA	3	2	30			66.99	5.99	6.15	3.82	53.33	23.19	96.38	8.23	99.06	51.39	ND		19.15	12.17	2.9	4.6	11713.94	188.9	18.75	7.81	10.12	17.41	69.39	54.13	ND		281.64	40.95	1.97	3.57	47.86	2.7	-26.57	38.24	-2.98	1.18	34.19	34.51	83.01	3.4	2327.77	321.31	358.62	6.45
12-Apr-12	103	22.12	wilder_5420	179	NA	1	1	2			97.52	7.72	<LOD	16.45	<LOD	75.28	141.61	10.73	<LOD	162.41	<LOD	787.17	<LOD	32.81	<LOD	14.11	8324.09	170.28	<LOD	23.72	<LOD	52.47	<LOD	158.99	<LOD	0	434.56	48.81	12.66	3.97	28.29	2.51	<LOD	122.91	<LOD	4.4	<LOD	116.25	72.06	3.55	1238.52	271.78	173.16	5.03
12-Apr-12	103	54.43																																																				
12-Apr-12	104	20.28	wilder_5420	179	NA	1	1	2			71.44	6.83	<LOD	15.39	<LOD	74.42	129.66	10.3	<LOD	148.51	<LOD	830.77	<LOD	34.34	<LOD	14.68	9351.31	182.26	<LOD	22.99	<LOD	51.91	<LOD	159.33	<LOD	0	303.41	43.86	<LOD	11.67	27.53	2.48	<LOD	120.67	<LOD	3.79	<LOD	118.07	70.46	3.51	1075.79	275.1	181.96	5.11
12-Apr-12	104	20.15	jackson 5444		NIST 2586						425.7	16.17	21.68	10.01	-1.86	27.28	311.53	16.63	373.7	97.74	ND		26.31	22.43	9	6.51	51016.54	672.63	81.05	13.07	82.58	21.5	309.49	130.71	ND		714.74	78.92	6.86	4.23	53.88	3.42	29.97	44.82	-1.68	1.95	90.93	40.5	80.95	4.04	5933.04	597.04	257.24	6.44
12-Apr-12	105	19.5	wilder_5420	179	NA	3	4	30			118.67	8.36	<LOD	18.75	<LOD	73.51	156.64	11.16	<LOD	202.4	<LOD	1033.99	<LOD	46.13	<LOD	16.3	20767.26	308.5	<LOD	26.35	<LOD	51.98	<LOD	243.78	<LOD	0	452.39	54.75	<LOD	12.27	66.27	3.44	<LOD	119.97	<LOD	5.1	<LOD	114.26	115.49	4.32	2872.22	362.31	360.84	7.14
12-Apr-12	105	20.69	jackson 5444		nist 2711						1186.65	27.19	111.83	16.21	52.24	25.36	327.71	16.35	-27.72	62.32	ND		1.33	15.97	17.85	7.41	25610.55	373.13	81.13	12.29	-60.66	19.72	107.33	89.09	ND		425.69	57.78	0.99	3.94	110.21	4.53	-2.59	39.89	0.35	2.54	51.23	35.99	243.97	6.52	2581.78	410.49	226.25	6
12-Apr-12	106	19.09	wilder_5420	179	NA	3	4	30			108.94	8.05	<LOD	18.55	<LOD	74.71	137.84	10.55	<LOD	179.33	<LOD	1053.09	<LOD	45.94	<LOD	14.73	19056.36	289.32	29.51	9.39	<LOD	52.19	<LOD	237.34	<LOD	0	581.49	57.69	<LOD	12.16	62.84	3.36	<LOD	123.28	<LOD	5.01	<LOD	117.9	134.28	4.61	2315.52	351.9	369.08	7.22
12-Apr-12	106	19.3	jackson 5444		nist2710						5224.15	82.15	625.97	38.57	97.95	28.18	6891.1	111.5	-22.38	90.65	ND		-15.29	21.06	74.41	15.74	36293.73	546.79	2800.88	67.73	-124.18	22.34	-67.49	116.52	ND		9501.79	241.78	12.11	4.45	123.05	5.59	94.34	44.88	-3.39	4.97	58.98	40.82	312.76	8.4	2347.78	504.69	106.39	5.26
12-Apr-12	107	21.89	wilder_5420	179	NA	3	4	30			83.89	7.53	<LOD	17.55	<LOD	76.73	141.42	11.03	<LOD	179.42	<LOD	995.06	<LOD	43.73	<LOD	15.7	18033.93	289.21	<LOD	25.99	<LOD	53.64	<LOD	238.25	<LOD	0	448.88	54.77	<LOD	12.69	48.8	3.14	<LOD	124.07	<LOD	4.59	<LOD	119.91	101.73	4.22	2388.25	348.48	301.84	6.72
12-Apr-12	107	21.56	jackson 5444		PES4315						269.06	10.78	14.55	6.78	8.03	21.95	837.74	22.95	30.25	42.01	ND		-2.24	8.01	-6.53	4.43	2471.07	77.24	95.34	10.84	-21.9	17.19	-42.71	25.32	ND		561.68	46.38	-1.09	3.18	10.27	1.76	19.6	35.16	0.96	1.54	-7.7	32.31	256.18	5.82	-95.4	213.57	35.63	3.2
12-Apr-12	108	19.24	wilder_5420	179	NA	3	3	30			120.8	7.2	<LOD	15.81	<LOD	62.53	208.63	10.93	<LOD	138.76	<LOD	687.73	<LOD	33.26	<LOD	11.86	10450.94	167.81	<LOD	22.2	<LOD	43.04	<LOD	153.51	<LOD	0	699.11	50.1	<LOD	10.01	41	2.44	<LOD	100.16	<LOD	3.99	<LOD	96.73	74.48	3.07	1183.18	234.12	240.53	4.97
12-Apr-12	108	20.01	jackson 5444		PES 5861						33.92	5.35	40.26	4.48	51.43	25.6	171.12	14.55	1235.22	104.11	ND		913.39	39.24	7.76	5.57	14280.45	236.78	2774.28	58.4	33.87	19.31	163.29	66.42	ND		168.07	47.24	6	3.64	20.02	2.21	51.69	42.08	0.78	1.54	59.85	37.56	121.52	4.4	700.56	317.82	74.03	3.79
12-Apr-12	109	18.6	wilder_5420	179	NA	3	3	30			115.18	7.49	<LOD	16.85	<LOD	67.43	197.96	11.29	<LOD	145.62	<LOD	791.81	<LOD	30.97	<LOD	12.61	9801.05	170.59	<LOD	22.22	<LOD	46.34	188.44	54.43	<LOD	0	535.7	48.17	<LOD	10.76	44.26	2.66	<LOD	108.03	<LOD	4.5	<LOD	104.72	86.5	3.47	<LOD	737.41	276.64	5.65
12-Apr-12	109	20.24	jackson 5444		BLANK						3.03	3.09	0.23	1.77	16.93	21.35	1.91	3.34	-1.92	32.68	ND		-10.05	5.83	6.94	4.43	12.09	14.54	-10.6	5.02	-42.38	16.45	-7.42	9.48	ND		-4.26	17.75	4.35	3.08	-1.29	1.15	-9.02	34.48	-0.55	1.08	109.24	31.39	0.66	1.47	-88.96	165.9	1.09	2.2
12-Apr-12	110	19.94	wilder_5420	179	NA	3	3	30			87.86	6.74	19.53	5.47	<LOD	68.19	196.69	11.29	<LOD	155.39	<LOD	766.46	<LOD	32.82	<LOD	11.5	10014.56	173.35	<LOD	24.41	<LOD	46.72	<LOD	160.67	<LOD	0	700.8	53.22	<LOD	10.86	43.72	2.65	<LOD	109.16	<LOD	4.18	<LOD	105.34	81.35	3.38	1888.74	273.71	290.25	5.79
12-Apr-12	111	19.8	wilder_5420	218	NA	1	2	0			198.63	10.3	<LOD	23.03	<LOD	73.58	130.28	10.23	<LOD	177.75	<LOD	876.13	<LOD	39.11	<LOD	13.55	11606.23	206.48	<LOD	25.95	<LOD	50.89	<LOD	180.36	<LOD	0	570.5	54.44	<LOD	12.17	51.66	3.09	<LOD	118.34	<LOD	4.85	<LOD	113.35	98.98	4	1531.46	295.52	331.43	6.76
12-Apr-12	112	19.86	wilder_5420	218	NA	1	2	0			205.47	10.5	<LOD	23.39	<LOD	73.67	149.49	10.88	<LOD	171.15	<LOD	961.78	<LOD	38.64	<LOD	13.71	10239.99	191.45	<LOD	25.58	<LOD	51.45	<LOD	175.53	<LOD	0	792.78	60.95	<LOD	11.98	51.56	3.09	<LOD	121.32	<LOD	5.01	<LOD	115.86	97.58	3.99	1669.94	315.77	316.27	6.61
12-Apr-12	113	20.14	wilder_5420	218	NA	1	2	0			165.69	8.55	<LOD	19.39	<LOD	65.15	131.2	9.22	<LOD	137.86	<LOD	758.15	<LOD	31.97	<LOD	11.97	8938.04	158.12	<LOD	20.56	<LOD	45.1	<LOD	148.94	<LOD	0	635.81	49.74	<LOD	10.49	42.45	2.57	<LOD	103.34	<LOD	4.04	<LOD	99.06	80.97	3.31	1168.05	250.26	279.57	5.56
12-Apr-12	114	20.53	wilder_5420	218	NA	1	2	2			72.93	6.46	<LOD	14.72	<LOD	69.1	74.09	7.66	<LOD	159.61	<LOD	815.24	<LOD	36.05	<LOD	13.24	10109.1	178.87	<LOD	20.57	<LOD	48.04	<LOD	159.7	<LOD	0	552.73	50.27	<LOD	11.23	52.85	2.93	<LOD	112.54	<LOD	4.1	<LOD	108.95	95.43	3.72	1417.36	273.67	323.18	6.3
12-Apr-12	115	18.53	wilder_5420	218	NA	1	2	2			89.61	6.77	<LOD	15.54	<LOD	67.31	66.94	7.23	<LOD	146.97	<LOD	852.78	<LOD	33.42	<LOD	13.25	9925.64	172.48	<LOD	22.54	<LOD	46.41	<LOD	159.31	<LOD	0	665.4	52.19	<LOD	10.89	43.99	2.66	<LOD	108.05	<LOD	3.52	<LOD	102.76	80.83	3.38	1711.89	285.32	303.01	5.93
12-Apr-12	116	20.59	wilder_5420	218	NA	1	2	2			110.64	7.24	<LOD	16.72	<LOD	65.04	74.03	7.38	<LOD	132.65	<LOD	779.53	<LOD	31.9	<LOD	11.99	9142.07	161.18	<LOD	22.62	<LOD	44.88	<LOD	148.18	<LOD	0	645.02	50.2	<LOD	10.54	41.71	2.56	<LOD	103.37	<LOD	3.93	<LOD	101.03	83.98	3.37	1382.33	260.8	247.15	5.27
12-Apr-12	117	20.92	wilder_5420	218	NA	1	2	4			59.76	6.26	<LOD	15.02	<LOD	72.51	63.71	7.55	184.95	60.46	<LOD	907.76	<LOD	33.94	<LOD	13.31	9631.93	179.73	<LOD	23.72	<LOD	50.77	<LOD	163.4	<LOD	0	433.13	48.35	<LOD	12.17	48.23	2.94	<LOD	118.4	<LOD	4.26	<LOD	113.14	95.93	3.87	2000.25	310.56	377.97	7.12
12-Apr-12	118	20.63	wilder_5420	218	NA	1	2	4			73.91	7.26	<LOD	16	<LOD	76.99	82.21	8.9	<LOD	165.99	<LOD	973.51	<LOD	40.88	<LOD	14.69	12792.95	232.12	<LOD	23.29	<LOD	54.06	<LOD	209.89	<LOD	0	617.77	59	<LOD	13.02	56.41	3.36	<LOD	124.39	<LOD	4.43	<LOD	121.03	97.59	4.2	2293.66	342.25	378.08	7.67
12-Apr-12	119	21.03	wilder_5420	218	NA	1	2	4			75.83	6.88	<LOD	16.05	<LOD	73.19	66.21	7.7	<LOD	140.5	<LOD	923.45	<LOD	37.83	<LOD	12.96	9846.98	184.07	<LOD	22.56	<LOD	50.77	<LOD	165.62	<LOD	0	498.09	50.34	<LOD	12.6	54.51	3.11	<LOD	119.56	<LOD	4.52	<LOD	114.13	96.65	3.92	1561.84	303.42	425.51	7.69
12-Apr-12	120	19.91	wilder_5420	218	NA	1	2	6			146.8	8.9	<LOD	20.45	<LOD	71.3	96.5	8.86	<LOD	136.17	<LOD	803.47	<LOD	34.99	<LOD	14.18	8268.33	164.63	<LOD	21.3	<LOD	49.91	<LOD	158.68	<LOD	0	492.28	49.1	<LOD	11.77	34.72	2.62	<LOD	116.44	<LOD	5.24	<LOD	111.66	69.1	3.4	1703.26	284.06	331.03	6.63
12-Apr-12	121	19.61	wilder_5420	218	NA	1	2	6			175.89	9.33	<LOD	20.91	<LOD	68.82	102.45	8.87	<LOD	140.9	<LOD	790.49	<LOD	35.35	<LOD	15.7	8282.04	160.18	<LOD	24.18	<LOD	47.77	<LOD	152.19	<LOD	0	614.29	51.82	<LOD	11.67	36.89	2.6	<LOD	109.45	<LOD	4.73	<LOD	105.88	79.92	3.5	1329.95	267.24	321.04	6.35
12-Apr-12	122	20.32	wilder_5420	218	NA	1	2	6			174.53	9.13	<LOD	20.8	<LOD	68.68	77.29	7.73	<LOD	158.7	<LOD	852.49	<LOD	35.81	<LOD	12.44	9933.24	175.47	<LOD	20.63	<LOD	47.88	<LOD	162.36	<LOD	0	490.94	48.03	<LOD	11.61	52.26	2.91	<LOD	112.16	<LOD	4.61	<LOD	106.88	89.46	3.6	1391.13	279.07	403.35	7.06
12-Apr-12	123	55																																																				
12-Apr-12	124	20.69	wilder_5420		2586						420.34	15.87	<LOD	35.11	<LOD	81.02	347.13	17.24	299.69	92.51	1820.6	484.24	98.23	23.29	<LOD	19.68	51354.66	661.03	67.54	12.28	<LOD	56.69	<LOD	395.79	<LOD	0	694.36	76.67	<LOD	12.44	50.25	3.32	<LOD	131.26	<LOD	6.42	<LOD	128.29	74.3	3.84	3738.52	478.53	262.75	6.41
12-Apr-12	125	19.19	wilder_5420		5861						56.42	6.65	61.08	6.55	85.75	27.03	110.16	15.12	1085.61	104.59	<LOD	877.96	1007.12	43.12	<LOD	17.83	16226.97	268.96	2939.79	62.7	119.64	18.69	<LOD	218.96	<LOD	0	157.65	48.14	<LOD	11.38	25.13	2.5	<LOD	134.04	6.5	2.09	<LOD	127.37	125.22	4.62	883.35	284.6	61.66	3.8
12-Apr-12	126	19.43	wilder_5420		2710						5834.8	90.72	616.29	49.82	<LOD	90.39	7344.15	119.05	<LOD	291.43	1775.96	518.22	81.33	25.17	74.65	17.21	38902.86	588.3	3191.71	74.31	102.61	21.47	<LOD	377.42	<LOD	0	9845.96	250.87	20.84	4.71	149.13	6.24	<LOD	146.99	<LOD	15.57	<LOD	142.84	343.42	8.99	1660.01	465.2	113.97	5.6
12-Apr-12	127	19.93	wilder_5420		4315						272.9	11.19	<LOD	25.8	<LOD	70.91	857.72	23.96	<LOD	138.92	<LOD	699.03	<LOD	28.97	<LOD	15.46	2889.06	87.19	110.49	11.9	66.09	16.45	<LOD	89.79	<LOD	0	567.46	47.52	<LOD	9.84	10.2	1.84	<LOD	117.37	<LOD	5.09	<LOD	111.77	281.46	6.26	<LOD	590.53	40.71	3.4
12-Apr-12	128	20.46	wilder_5420		2711						1213.77	27.73	120.4	20.11	<LOD	80.5	326.16	16.53	<LOD	214.31	1315.98	387.93	<LOD	55.38	<LOD	24.19	26214.16	381.46	127.73	14.14	71.32	18.61	<LOD	287.17	<LOD	0	541.9	62.31	<LOD	12.41	113.7	4.65	<LOD	131.23	9.78	3.13	130.81	42.32	263.83	6.81	1530.94	362.51	246.83	6.32
12-Apr-12	129	20.21	wilder_5420		Blank						<LOD	9.22	<LOD	6.14	<LOD	64.3	<LOD	9.77	<LOD	89.42	<LOD	516.07	<LOD	19.51	<LOD	10.89	<LOD	49.71	<LOD	16.58	<LOD	44.49	<LOD	29.62	<LOD	0	<LOD	45.78	<LOD	9.06	<LOD	3.72	<LOD	101.51	<LOD	3.32	<LOD	97.3	<LOD	4.15	<LOD	463.2	<LOD	6.26
4/10/2012 8:22	18	45	6425	110		1	4	0			929	77	79	45	< LOD	35	268	79	< LOD	941	411	32	< LOD	285	< LOD	34	18372	629	< LOD	182	< LOD	27	< LOD	432			< LOD	602			72	47	< LOD	53	< LOD	21	< LOD	71	194	61				
4/10/2012 8:26	19	32.33	6425	110		1	4	0			828	112	< LOD	94	< LOD	52	1094	163	< LOD	1693	552	55	< LOD	489	< LOD	58	18192	957	< LOD	318	< LOD	42	< LOD	708			1212	748			< LOD	112	< LOD	81	< LOD	35	< LOD	128	186	96				
4/10/2012 8:28	21	45	6425	110		1	4	0			623	91	< LOD	77	< LOD	46	938	143	< LOD	1538	629	51	< LOD	465	< LOD	56	17726	847	< LOD	288	< LOD	41	< LOD	637			< LOD	986			< LOD	99	< LOD	76	< LOD	30	< LOD	113	287	89				
4/10/2012 8:35	23	45	6425	110		1	4	0			810	95	< LOD	82	< LOD	45	1224	146	< LOD	1436	802	56	< LOD	445	< LOD	56	22854	899	< LOD	280	< LOD	40	< LOD	649			< LOD	942			< LOD	95	< LOD	73	< LOD	27	< LOD	111	312	84				
4/10/2012 8:41	25	32.28	6425	110		1	4	0			1174	152	< LOD	134	< LOD	69	1573	222	4422	1564	824	78	< LOD	672	< LOD	75	28223	1356	< LOD	435	< LOD	58	< LOD	947			< LOD	1342			< LOD	140	< LOD	111	< LOD	40	< LOD	160	258	126				
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4/10/2012 8:57	35	45.03	6425	110		1	4	6			961	82	< LOD	71	< LOD	34	1027	105	< LOD	996	427	34	< LOD	301	< LOD	38	14856	609	< LOD	195	< LOD	25	< LOD	443			1169	456			< LOD	75	< LOD	51	< LOD	21	< LOD	78	197	60				
4/10/2012 8:58	36	45.03	6425	110		1	4	6			862	71	< LOD	61	< LOD	29	968	91	< LOD	821	294	26	< LOD	246	< LOD	29	11069	489	< LOD	163	< LOD	23	< LOD	358			806	365			< LOD	67	< LOD	41	< LOD	19	< LOD	62	152	52				
4/10/2012 9:08	37	45.03	6425	115		1	4	0			847	93	< LOD	82	< LOD	44	817	128	< LOD	1376	697	50	< LOD	411	< LOD	51	17389	781	< LOD	264	< LOD	38	< LOD	602			< LOD	886			< LOD	92	< LOD	72	< LOD	26	< LOD	104	279	78				
4/10/2012 9:09	38	45.03	6425	115		1	4	0			677	77	< LOD	67	< LOD	36	648	105	< LOD	1153	531	40	< LOD	350	< LOD	41	12660	617	< LOD	220	< LOD	30	< LOD	485			< LOD	723			< LOD	79	< LOD	57	< LOD	24	< LOD	85	241	66				
4/10/2012 9:13	43	45.03	6425	115		1	4	2			594	56	< LOD	47	< LOD	25	458	67	780	493	234	22	< LOD	211	< LOD	26	7370	381	< LOD	135	< LOD	19	< LOD	289			< LOD	462			82	40	< LOD	35	< LOD	16	< LOD	54	97	45				
4/10/2012 9:14	44	31.58	6425	115		1	4	2			537	65	< LOD	56	< LOD	28	365	78	1970	637	232	26	< LOD	270	< LOD	31	7831	465	< LOD	166	< LOD	25	< LOD	356			< LOD	573			113	48	< LOD	41	< LOD	19	< LOD	63	152	54				
4/10/2012 9:16	45	45.03	6425	115		1	4	2			567	64	< LOD	54	< LOD	31	486	80	< LOD	814	255	25	< LOD	260	< LOD	34	6662	426	< LOD	163	< LOD	24	< LOD	344			< LOD	547			73	46	< LOD	44	< LOD	19	< LOD	66	101	54				
4/10/2012 9:20	46	37.59	6425	115		1	4	4			446	60	< LOD	51	< LOD	31	454	82	< LOD	882	277	27	< LOD	275	< LOD	33	6261	427	< LOD	173	< LOD	24	< LOD	359			< LOD	571			111	46	< LOD	46	< LOD	19	< LOD	71	130	54				
4/10/2012 9:21	47	33.84	6425	115		1	4	4			764	82	< LOD	71	< LOD	35	816	106	2557	768	292	31	< LOD	314	< LOD	38	13096	626	< LOD	204	< LOD	27	< LOD	447			< LOD	667			< LOD	80	< LOD	52	< LOD	24	< LOD	78	140	62				
4/10/2012 9:23	49	45.03	6425	115		1	4	4			603	64	< LOD	55	< LOD	30	441	80	4834	727	334	28	379	191	< LOD	30	14436	555	< LOD	173	< LOD	24	< LOD	397			764	412			82	45	< LOD	44	< LOD	19	< LOD	65	108	53				
4/10/2012 9:36	50	30	6425	115		3	1	0			793	135	< LOD	116	< LOD	65	449	174	< LOD	1978	270	48	< LOD	616	< LOD	78	13672	1052	< LOD	392	< LOD	51	< LOD	843			< LOD	1282			< LOD	141	< LOD	100	< LOD	42	< LOD	155	< LOD	175				
4/10/2012 9:38	51	30	6425	115		3	1	0			693	105	< LOD	89	< LOD	50	472	135	< LOD	1461	230	37	< LOD	442	< LOD	54	13638	849	< LOD	300	< LOD	39	< LOD	645			< LOD	1001			< LOD	111	< LOD	74	< LOD	33	< LOD	110	172	89				
4/10/2012 9:39	52	30	6425	115		3	1	0			2605	774	< LOD	721	< LOD	366	8954	1428	< LOD	11181	835	240	< LOD	3574	3857	609	74988	6669	2888	1858	< LOD	355	< LOD	4932			< LOD	7652			< LOD	829	< LOD	563	472	234	< LOD	859	< LOD	1013				
4/10/2012 9:48	53	30	6425	115		3	1	2			508	89	< LOD	75	< LOD	47	320	119	< LOD	1430	337	41	< LOD	429	< LOD	50	13363	794	< LOD	267	< LOD	40	< LOD	593			< LOD	921			< LOD	100	< LOD	73	< LOD	28	< LOD	105	< LOD	121				
4/10/2012 9:49	54	27.82	6425	115		3	1	2			622	105	< LOD	92	< LOD	51	483	140	< LOD	1587	231	38	< LOD	485	< LOD	54	13970	886	< LOD	310	< LOD	42	< LOD	656			< LOD	1014			< LOD	116	< LOD	80	< LOD	33	< LOD	118	225	92				
4/10/2012 9:51	55	30	6425	115		3	1	2			561	112	< LOD	96	< LOD	62	365	153	< LOD	1718	180	38	< LOD	536	< LOD	67	11517	918	< LOD	350	< LOD	51	< LOD	711			< LOD	1169			< LOD	131	< LOD	90	< LOD	38	< LOD	136	< LOD	158				
4/10/2012 9:53	56	25.55	6425	115		3	1	4			357	72	< LOD	59	< LOD	39	296	94	< LOD	1016	195	29	< LOD	312	< LOD	37	6501	539	< LOD	209	< LOD	30	< LOD	419			< LOD	652			< LOD	89	< LOD	54	< LOD	25	< LOD	78	103	68				
4/10/2012 11:07	61	30	6425	105		3	1	30			652	85	< LOD	72	< LOD	39	793	118	< LOD	1153	523	45	< LOD	355	< LOD	43	10365	643	< LOD	226	< LOD	33	< LOD	489			< LOD	780			< LOD	88	< LOD	62	< LOD	25	< LOD	90	141	71				
4/10/2012 11:09	62	30	6425	105		3	1	30			626	91	< LOD	77	< LOD	46	641	123	< LOD	1255	450	45	< LOD	381	< LOD	47	10551	697	< LOD	254	< LOD	38	< LOD	555			< LOD	838			< LOD	97	< LOD	65	< LOD	26	< LOD	100	188	78				
4/10/2012 11:10	63	30	6425	105		3	1	30			598	83	< LOD	72	< LOD	42	522	109	< LOD	1210	431	42	< LOD	358	< LOD	43	11804	674	< LOD	229	< LOD	31	< LOD	519			< LOD	786			< LOD	89	< LOD	61	< LOD	25	< LOD	91	152	73				
4/10/2012 11:11	64	30	6425	105		3	1	2			551	84	< LOD	74	< LOD	42	646	120	< LOD	1264	476	45	< LOD	381	< LOD	50	11902	704	< LOD	247	< LOD	35	< LOD	551			< LOD	834			< LOD	92	< LOD	65	< LOD	26	< LOD	96	< LOD	111				
4/10/2012 11:12	65	30	6425	105		3	1	2			414	81	< LOD	68	< LOD	45	403	113	2025	926	335	39	< LOD	390	< LOD	43	10718	697	< LOD	245	< LOD	35	< LOD	513			< LOD	860			142	67	< LOD	64	< LOD	28	< LOD	95	< LOD	118				
4/10/2012 11:13	66	30	6425	105		3	1	2			425	63	< LOD	52	< LOD	32	321	78	< LOD	840	230	27	< LOD	253	< LOD	33	7120	465	< LOD	167	< LOD	23	< LOD	362			< LOD	544			< LOD	72	< LOD	43	< LOD	21	< LOD	66	129	56				
4/10/2012 11:15	67	30	6425	105		3	1	4			393	70	< LOD	58	< LOD	36	525	100	< LOD	1096	281	33	< LOD	315	< LOD	38	7662	547	< LOD	203	< LOD	30	< LOD	432			< LOD	688			< LOD	85	< LOD	52	< LOD	21	< LOD	78	127	66				
4/10/2012 12:10	68	30	6425	106		1	1	0			940	114	< LOD	99	< LOD	49	795	143	4851	1171	451	49	< LOD	466	< LOD	55	22199	995	< LOD	291	< LOD	41	< LOD	703			< LOD	1022			115	73	< LOD	77	< LOD	32	< LOD	113	305	92				
4/10/2012 12:11	69	30	6425	106		1	1	0			886	110	< LOD	95	< LOD	51	654	138	5630	1190	504	51	< LOD	453	< LOD	54	20486	955	< LOD	290	< LOD	40	< LOD	667			< LOD	970			129	73	< LOD	73	< LOD	31	< LOD	112	223	90				
4/10/2012 12:12	70	30	6425	106		1	1	0			733	99	< LOD	85	< LOD	45	542	126	6693	1171	436	46	482	302	< LOD	47	23359	971	< LOD	268	< LOD	34	< LOD	665			993	661			< LOD	102	< LOD	69	< LOD	29	< LOD	106	276	84				
4/10/2012 12:15	71	30	6425	106		1	1	2			330	70	< LOD	58	< LOD	39	336	99	2774	850	278	34	< LOD	343	< LOD	38	11320	652	< LOD	222	< LOD	32	< LOD	476			< LOD	742			< LOD	88	< LOD	53	< LOD	25	< LOD	80	106	70				
4/10/2012 12:16	72	30	6425	106		1	1	2			479	76	< LOD	63	< LOD	37	433	101	3835	874	274	33	< LOD	335	< LOD	41	14149	702	< LOD	212	< LOD	33	< LOD	487			< LOD	758			< LOD	87	< LOD	53	< LOD	22	< LOD	81	231	70				
4/10/2012 12:17	74	30	6425	106		1	1	2			244	49	< LOD	41	< LOD	28	172	65	2120	591	182	22	< LOD	247	< LOD	30	7995	441	< LOD	150	< LOD	21	< LOD	327			< LOD	510			< LOD	66	< LOD	39	< LOD	17	< LOD	61	93	51				
4/10/2012 12:20	75	30	6425	106		3	3	30			366	74	< LOD	63	< LOD	42	310	105	3443	941	284	35	453	263	< LOD	42	14552	751	< LOD	239	< LOD	32	< LOD	521			< LOD	828			< LOD	92	< LOD	60	< LOD	24	< LOD	88	< LOD	108				
4/10/2012 12:21	76	30	6425	106		3	3	30			338	67	< LOD	57	< LOD	37	203	89	1419	760	264	32	< LOD	333	< LOD	38	11430	626	< LOD	213	< LOD	30	< LOD	454			< LOD	696			< LOD	84	< LOD	54	< LOD	24	< LOD	77	< LOD	97				
4/10/2012 12:22	77	30	6425	106		3	3	30			365	75	< LOD	63	< LOD	44	184	100	3865	963	317	38	< LOD	383	< LOD	42	16529	796	< LOD	232	< LOD	36	< LOD	563			1107	578			< LOD	91	< LOD	63	< LOD	26	< LOD	92	< LOD	112				
4/10/2012 12:24	78	30	6425	106		3	3	2			286	63	< LOD	52	< LOD	38	202	86	2325	778	272	32	< LOD	315	< LOD	34	11702	624	< LOD	198	< LOD	31	< LOD	447			< LOD	681			< LOD	83	< LOD	52	< LOD	21	< LOD	80	< LOD	96				
4/10/2012 12:25	79	30	6425	106		3	3	0			572	85	< LOD	73	< LOD	41	626	119	1916	921	500	46	< LOD	399	< LOD	47	14238	746	< LOD	242	< LOD	35	< LOD	555			< LOD	845			98	62	< LOD	64	< LOD	30	< LOD	98	231	76				
4/10/2012 12:26	80	30	6425	106		3	3	0			680	106	< LOD	90	< LOD	54	754	150	< LOD	1598	552	56	< LOD	490	< LOD	58	14188	881	< LOD	306	< LOD	40	< LOD	671			< LOD	997			< LOD	114	< LOD	76	< LOD	32	< LOD	116	< LOD	139				
4/10/2012 12:28	81	30	6425	106		3	3	0			633	93	< LOD	78	< LOD	44	767	132	< LOD	1380	449	46	< LOD	415	< LOD	47	10608	715	< LOD	261	< LOD	37	< LOD	552			< LOD	854			112	68	< LOD	66	< LOD	30	< LOD	99	217	80				
4/10/2012 12:29	82	30	6425	106		3	1	0			252	75	< LOD	64	< LOD	45	222	116	< LOD	1469	403	45	< LOD	416	< LOD	47	10515	736	< LOD	272	< LOD	40	< LOD	551			< LOD	900			< LOD	102	< LOD	71	< LOD	29	< LOD	112	< LOD	129				
4/10/2012 12:30	83	30	6425	106		3	1	0			321	74	< LOD	64	< LOD	42	306	112	< LOD	1338	393	42	< LOD	418	< LOD	51	11216	709	< LOD	251	< LOD	37	< LOD	563			< LOD	870			< LOD	96	< LOD	70	< LOD	27	< LOD	103	135	78				
4/10/2012 12:31	84	30	6425	106		3	1	0			279	82	< LOD	68	< LOD	51	< LOD	183	< LOD	1480	465	50	< LOD	462	< LOD	52	11521	801	< LOD	296	< LOD	41	< LOD	628			< LOD	976			< LOD	108	< LOD	81	< LOD	32	< LOD	114	< LOD	131				
4/10/2012 12:33	85	30	6425	106		3	1	30			253	80	< LOD	67	< LOD	54	< LOD	170	< LOD	1580	390	46	< LOD	478	< LOD	58	11742	805	< LOD	296	< LOD	42	< LOD	626			< LOD	997			< LOD	110	< LOD	75	< LOD	29	< LOD	119	< LOD	134				
4/10/2012 12:34	86	30	6425	106		3	1	30			304	114	< LOD	91	< LOD	68	< LOD	264	2927	1564	330	55	< LOD	655	< LOD	81	11538	1070	< LOD	437	< LOD	62	< LOD	848			< LOD	1456			< LOD	151	< LOD	113	< LOD	46	< LOD	162	< LOD	185				
4/10/2012 12:35	87	30	6425	106		3	1	30			235	76	< LOD	63	< LOD	48	< LOD	168	7687	1253	346	43	570	318	< LOD	51	19649	942	< LOD	277	< LOD	40	< LOD	669			< LOD	1026			< LOD	101	< LOD	70	< LOD	31	< LOD	108	< LOD	131				
4/10/2012 12:40	88	30	6425	106		3	1	30			247	145	< LOD	125	< LOD	88	1466	286	< LOD	2630	508	79	< LOD	824	562	113	14167	1375	< LOD	580	< LOD	71	< LOD	1107			< LOD	1729			< LOD	203	< LOD	134	83	49	< LOD	207	< LOD	240				
4/10/2012 13:53	89	30	6425	127		1	1	0			412	78	< LOD	68	< LOD	43	506	112	< LOD	1256	350	39	< LOD	367	< LOD	45	11321	684	< LOD	237	< LOD	33	< LOD	504			< LOD	755			97	64	< LOD	58	< LOD	28	< LOD	89	195	75				
4/10/2012 13:54	90	30	6425	127		1	1	0			528	92	< LOD	76	< LOD	48	485	132	< LOD	1485	506	51	< LOD	453	< LOD	55	13111	812	< LOD	289	< LOD	42	< LOD	644			< LOD	967			< LOD	101	< LOD	76	< LOD	29	< LOD	115	< LOD	131				
4/10/2012 13:55	91	30	6425	127		1	1	0			461	89	< LOD	75	< LOD	50	680	139	< LOD	1544	615	56	< LOD	471	< LOD	52	12200	794	< LOD	296	< LOD	40	< LOD	627			< LOD	972			< LOD	102	< LOD	77	< LOD	31	< LOD	113	< LOD	128				
4/10/2012 13:56	92	30	6425	127		1	1	0			377	79	< LOD	70	< LOD	45	706	130	< LOD	1395	508	48	< LOD	408	< LOD	48	13319	771	< LOD	264	< LOD	39	< LOD	606			< LOD	894			< LOD	94	< LOD	73	< LOD	27	< LOD	103	165	80				
4/10/2012 13:57	93	30	6425	127		1	1	0			560	95	< LOD	79	< LOD	50	688	142	< LOD	1601	634	57	< LOD	467	< LOD	52	15051	862	< LOD	296	< LOD	42	< LOD	639			< LOD	976			< LOD	106	< LOD	75	< LOD	30	< LOD	113	164	89				
4/10/2012 13:58	95	30	6425	127		1	1	0			461	84	< LOD	72	< LOD	46	721	133	< LOD	1430	622	54	< LOD	439	< LOD	51	14294	799	< LOD	273	< LOD	37	< LOD	597			< LOD	918			< LOD	95	< LOD	73	< LOD	26	< LOD	105	130	83				
4/10/2012 13:59	96	30	6425	127		1	1	0			1109	339	< LOD	296	< LOD	182	4392	655	< LOD	5413	1389	187	< LOD	1732	1157	237	33676	2995	< LOD	1257	< LOD	156	< LOD	2336			< LOD	3560			< LOD	386	< LOD	272	186	101	< LOD	410	< LOD	488				
4/10/2012 14:00	97	30	6425	127		1	1	0			491	104	< LOD	88	< LOD	58	659	164	4222	1359	471	56	< LOD	549	< LOD	62	18985	1064	< LOD	363	< LOD	46	< LOD	765			< LOD	1232			< LOD	127	< LOD	90	< LOD	34	< LOD	128	161	103				
4/10/2012 14:01	98	30	6425	127		1	1	0			586	113	< LOD	93	< LOD	61	560	163	2673	1342	560	61	< LOD	564	< LOD	66	17489	1057	< LOD	359	< LOD	54	< LOD	794			1610	864			< LOD	128	< LOD	90	< LOD	39	< LOD	141	162	108				
4/10/2012 14:02	100	30	6425	127		1	1	0			445	109	< LOD	95	< LOD	60	683	175	6600	1545	508	60	< LOD	613	< LOD	72	24261	1227	< LOD	378	< LOD	51	< LOD	859			< LOD	1334			< LOD	134	< LOD	100	< LOD	41	< LOD	140	167	110				
4/10/2012 14:08	103	30	6425	127		1	1	2			154	57	< LOD	48	< LOD	39	137	88	1852	798	298	33	< LOD	330	< LOD	38	8900	578	< LOD	210	< LOD	30	< LOD	426			< LOD	707			< LOD	84	< LOD	57	< LOD	25	< LOD	83	< LOD	98				
4/10/2012 14:09	104	30	6425	127		1	1	2			270	69	< LOD	58	< LOD	41	436	109	2204	901	322	37	< LOD	378	< LOD	43	9961	651	< LOD	237	< LOD	34	< LOD	493			< LOD	826			< LOD	91	< LOD	60	< LOD	26	< LOD	92	< LOD	111				
4/10/2012 14:10	105	30	6425	127		1	1	2			282	66	< LOD	55	< LOD	39	301	98	< LOD	1152	309	35	< LOD	342	< LOD	38	8804	597	< LOD	218	< LOD	31	< LOD	467			< LOD	729			< LOD	86	< LOD	58	< LOD	23	< LOD	86	170	68				
4/10/2012 14:12	106	30	6425	127		3	2	30			271	73	< LOD	63	< LOD	44	250	112	4896	1100	2139	96	< LOD	431	< LOD	49	15895	818	< LOD	258	< LOD	38	< LOD	600			< LOD	901			< LOD	95	< LOD	69	< LOD	27	< LOD	107	< LOD	119				
4/10/2012 14:13	107	25.56	6425	127		3	2	30			198	65	< LOD	56	< LOD	41	183	97	< LOD	1236	2248	96	< LOD	364	< LOD	43	6761	578	< LOD	221	< LOD	34	< LOD	477			< LOD	782			< LOD	92	< LOD	62	< LOD	27	< LOD	95	< LOD	108				
4/10/2012 14:15	109	30	6425	127		3	2	30			241	67	< LOD	55	< LOD	43	< LOD	152	2282	953	1184	69	< LOD	404	< LOD	41	13679	740	< LOD	247	< LOD	36	< LOD	536			< LOD	859			< LOD	90	< LOD	65	< LOD	24	< LOD	100	< LOD	111				

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

In-Situ XRF Data

Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment		Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
4/10/2012 14:16	110	30	6425	127		3	2	0			320	80	< LOD	68	< LOD	47	279	118	< LOD	1411	4193	140	< LOD	431	< LOD	48	9681	718	< LOD	272	< LOD	38	< LOD	568			< LOD	894			< LOD	102	< LOD	76	< LOD	28	< LOD	110	148	84				
4/10/2012 14:17	111	28.63	6425	127		3	2	0			359	80	< LOD	68	< LOD	49	231	114	< LOD	1346	2876	115	< LOD	420	< LOD	44	10933	737	< LOD	268	< LOD	39	< LOD	562			939	612			< LOD	100	< LOD	72	< LOD	26	< LOD	106	< LOD	126				
4/10/2012 14:18	112	30	6425	127		3	2	0			407	97	< LOD	84	< LOD	53	301	140	3041	1251	3836	148	< LOD	510	< LOD	64	15650	958	< LOD	325	< LOD	47	< LOD	726			< LOD	1112			< LOD	119	< LOD	91	< LOD	35	< LOD	130	156	100				
4/10/2012 14:56	113	30	6425	143		3	1	30			266	70	< LOD	61	< LOD	42	239	105	1416	911	535	48	< LOD	388	< LOD	46	14445	762	< LOD	241	< LOD	37	< LOD	538			< LOD	855			< LOD	92	< LOD	67	< LOD	25	< LOD	101	157	78				
4/10/2012 14:56	114	30	6425	143		3	1	30			319	79	< LOD	67	< LOD	47	449	125	4371	1111	520	50	504	309	< LOD	49	17732	880	< LOD	276	< LOD	39	< LOD	638			< LOD	931			< LOD	102	< LOD	72	< LOD	31	< LOD	105	158	84				
4/10/2012 14:58	115	30	6425	143		3	1	30			269	69	< LOD	58	< LOD	43	< LOD	143	< LOD	1262	383	41	< LOD	368	< LOD	45	9125	637	< LOD	229	< LOD	35	< LOD	479			< LOD	770			< LOD	94	< LOD	61	< LOD	24	< LOD	92	152	73				
4/10/2012 14:59	116	30	6425	143		3	1	30			217	59	< LOD	49	< LOD	36	221	87	< LOD	1035	259	31	< LOD	311	< LOD	37	6548	507	< LOD	204	< LOD	28	< LOD	417			< LOD	663			< LOD	82	< LOD	53	< LOD	22	< LOD	79	128	63				
4/10/2012 15:00	117	30	6425	143		3	1	30			257	58	< LOD	48	< LOD	34	211	82	< LOD	1040	295	31	< LOD	299	< LOD	36	8837	537	< LOD	189	< LOD	28	< LOD	413			< LOD	666			87	52	< LOD	52	< LOD	20	< LOD	76	< LOD	90				
4/10/2012 15:02	118	21.78	6425	143		3	1	30			256	80	< LOD	69	< LOD	50	274	120	4108	1131	342	45	< LOD	453	< LOD	53	14998	883	< LOD	268	< LOD	41	< LOD	625			< LOD	944			114	74	< LOD	72	< LOD	32	< LOD	107	< LOD	128				
4/12/2012 8:46	139	30	6425								101	48	< LOD	40	< LOD	35	< LOD	111	1628	708	210	27	< LOD	307	< LOD	35	6226	475	< LOD	179	< LOD	29	< LOD	385			< LOD	646			< LOD	76	< LOD	50	< LOD	20	< LOD	75	< LOD	89				
4/12/2012 8:49	140	30	6425								67	42	< LOD	36	< LOD	32	< LOD	102	< LOD	896	244	26	< LOD	263	< LOD	29	4190	387	< LOD	165	< LOD	26	< LOD	322			< LOD	573			< LOD	68	< LOD	44	< LOD	20	< LOD	68	< LOD	79				
4/12/2012 8:50	141	30	6425								169	56	< LOD	44	< LOD	39	< LOD	121	< LOD	1053	211	28	< LOD	310	< LOD	34	4433	458	< LOD	192	< LOD	29	< LOD	388			< LOD	659			< LOD	83	< LOD	53	< LOD	23	< LOD	81	118	64				
4/12/2012 8:51	142	30	6425								< LOD	65	< LOD	35	< LOD	33	< LOD	101	< LOD	896	235	27	< LOD	273	< LOD	30	4447	412	< LOD	167	< LOD	26	< LOD	347			< LOD	594			< LOD	71	< LOD	49	< LOD	20	< LOD	71	99	56				
4/12/2012 8:53	143	30	6425								< LOD	63	< LOD	34	< LOD	31	< LOD	100	< LOD	953	216	25	< LOD	280	< LOD	29	4044	394	< LOD	166	< LOD	26	< LOD	344			886	415			81	48	< LOD	47	< LOD	18	< LOD	71	< LOD	81				
4/12/2012 8:57	144	30	6425	222		1	1				< LOD	67	< LOD	37	< LOD	34	< LOD	110	< LOD	1031	256	29	< LOD	298	< LOD	34	5230	446	< LOD	178	< LOD	26	< LOD	385			< LOD	632			< LOD	74	< LOD	51	< LOD	19	< LOD	76	94	58				
4/12/2012 8:58	145	30	6425	222		1	1				100	48	< LOD	38	< LOD	31	< LOD	109	< LOD	971	328	32	< LOD	291	< LOD	34	3775	409	< LOD	181	< LOD	24	< LOD	373			< LOD	615			< LOD	75	< LOD	50	< LOD	21	< LOD	74	109	58				
4/12/2012 8:59	146	30	6425	222		1	1				< LOD	142	< LOD	83	< LOD	68	919	201	< LOD	1920	441	61	< LOD	625	489	86	6265	863	< LOD	432	< LOD	56	< LOD	768			< LOD	1235			< LOD	152	< LOD	99	< LOD	51	< LOD	150	< LOD	183				
4/12/2012 9:00	147	30	6425	222		1	1				95	51	< LOD	43	< LOD	37	< LOD	123	1459	798	375	37	< LOD	336	< LOD	39	5512	497	< LOD	210	< LOD	30	< LOD	428			< LOD	733			< LOD	81	< LOD	57	< LOD	21	< LOD	85	< LOD	96				
4/12/2012 9:02	148	30	6425	221		1	1				144	63	< LOD	49	< LOD	43	< LOD	147	< LOD	1371	460	45	< LOD	382	< LOD	51	9297	658	< LOD	245	< LOD	37	< LOD	517			< LOD	831			< LOD	92	< LOD	66	< LOD	26	< LOD	102	184	76				
4/12/2012 9:03	149	30	6425	221		1	1				99	62	< LOD	51	< LOD	48	< LOD	149	< LOD	1388	440	45	< LOD	419	< LOD	49	10240	701	< LOD	263	< LOD	36	< LOD	556			< LOD	894			< LOD	97	< LOD	72	< LOD	26	< LOD	103	198	81				
4/12/2012 9:03	150	30	6425	221		1	1				< LOD	92	< LOD	52	< LOD	49	< LOD	154	< LOD	1417	496	49	< LOD	421	< LOD	48	8700	683	< LOD	258	< LOD	37	< LOD	559			< LOD	903			< LOD	101	< LOD	70	< LOD	29	< LOD	108	< LOD	125				
4/12/2012 9:06	151	30	6425	221		1	1				< LOD	87	< LOD	49	< LOD	44	< LOD	143	< LOD	1342	510	46	< LOD	395	< LOD	46	9467	657	< LOD	246	< LOD	34	< LOD	534			< LOD	850			< LOD	91	< LOD	69	< LOD	27	< LOD	103	< LOD	115				
4/12/2012 9:08	154	30	6425	221		1	1				< LOD	98	< LOD	54	< LOD	50	< LOD	155	< LOD	1453	463	48	< LOD	440	< LOD	52	7714	680	< LOD	273	< LOD	38	< LOD	585			< LOD	922			< LOD	101	< LOD	75	< LOD	29	< LOD	111	< LOD	126				
4/12/2012 9:10	155	30	6425	221		1	1				91	59	< LOD	47	< LOD	43	< LOD	146	< LOD	1266	520	47	< LOD	388	< LOD	45	9556	666	< LOD	247	< LOD	35	< LOD	545			< LOD	854			< LOD	93	< LOD	64	< LOD	27	< LOD	98	155	76				
4/12/2012 9:11	156	30	6425	221		1	1				< LOD	78	< LOD	42	< LOD	39	< LOD	134	< LOD	1175	478	42	< LOD	358	< LOD	40	7411	562	< LOD	217	< LOD	30	< LOD	481			< LOD	740			< LOD	86	< LOD	57	< LOD	23	< LOD	91	195	69				
4/12/2012 9:12	157	30	6425	221		1	1				< LOD	84	< LOD	48	< LOD	45	< LOD	145	< LOD	1343	591	50	< LOD	396	< LOD	46	11230	696	< LOD	247	< LOD	35	< LOD	553			< LOD	870			< LOD	91	< LOD	66	< LOD	25	< LOD	103	173	76				
4/12/2012 9:13	159	30	6425	221		1	1				111	62	< LOD	49	< LOD	46	< LOD	149	< LOD	1367	499	47	< LOD	418	< LOD	45	9879	685	< LOD	243	< LOD	37	< LOD	544			< LOD	860			< LOD	95	< LOD	65	< LOD	26	< LOD	100	170	80				
4/12/2012 9:14	160	30	6425	221		1	1				117	59	< LOD	48	< LOD	40	< LOD	144	2820	949	476	44	< LOD	384	< LOD	44	13429	725	< LOD	232	< LOD	34	< LOD	540			< LOD	829			< LOD	88	< LOD	65	< LOD	26	< LOD	97	143	75				
4/12/2012 9:16	161	30	6425	221		1	1				< LOD	86	< LOD	49	< LOD	46	< LOD	150	< LOD	1368	513	48	< LOD	407	< LOD	48	8466	654	< LOD	245	< LOD	35	< LOD	517			< LOD	867			< LOD	95	< LOD	64	< LOD	27	< LOD	99	183	79				
4/12/2012 10:17	162	30	6425	224		3	3	30			288	57	< LOD	49	< LOD	32	392	85	< LOD	918	720	46	< LOD	279	< LOD	34	5674	448	< LOD	180	< LOD	24	< LOD	358			< LOD	591			83	50	< LOD	46	< LOD	21	< LOD	73	< LOD	83				
4/12/2012 10:19	164	30	6425	224		3	3	30			169	53	< LOD	44	< LOD	34	218	82	< LOD	1004	674	46	< LOD	303	< LOD	37	6787	494	< LOD	185	< LOD	27	< LOD	396			< LOD	656			< LOD	77	< LOD	48	< LOD	20	< LOD	76	134	59				
4/12/2012 10:20	165	30	6425	224		3	3	30			121	44	< LOD	36	< LOD	28	< LOD	98	< LOD	851	281	28	< LOD	251	< LOD	29	4469	385	< LOD	159	< LOD	24	< LOD	312			< LOD	528			114	47	< LOD	41	< LOD	17	< LOD	66	130	52				
4/12/2012 10:21	166	30	6425	224		3	3	2			263	64	< LOD	54	< LOD	39	326	98	< LOD	1162	434	40	< LOD	339	< LOD	40	9037	595	< LOD	217	< LOD	33	< LOD	467			< LOD	731			< LOD	85	< LOD	60	< LOD	22	< LOD	91	< LOD	101				
4/9/2012 15:31	25	30	6424	174		1	3	0			171	54	< LOD	46	< LOD	37	< LOD	113	< LOD	905	265	33	< LOD	410	< LOD	64	5421	463	< LOD	174	< LOD	90	< LOD	486			< LOD	637			< LOD	74	< LOD	48	< LOD	24	< LOD	100	95	59				
4/9/2012 15:32	26	30	6424	174		1	3	0			162	54	< LOD	47	< LOD	38	162	80	< LOD	896	294	35	< LOD	430	< LOD	71	6031	490	< LOD	176	< LOD	93	< LOD	533			987	459			< LOD	75	< LOD	51	< LOD	23	< LOD	106	< LOD	91				
4/9/2012 15:33	27	30	6424	174		1	3	0			167	58	< LOD	51	< LOD	41	136	88	< LOD	1061	427	43	< LOD	481	< LOD	77	8144	575	< LOD	201	< LOD	106	< LOD	592			825	516			< LOD	80	< LOD	56	< LOD	26	< LOD	118	< LOD	99				
4/9/2012 15:34	28	30	6424	174		1	3	2			340	66	< LOD	57	< LOD	40	266	88	< LOD	956	322	37	< LOD	448	< LOD	71	7768	544	< LOD	189	< LOD	97	< LOD	541			< LOD	687			< LOD	78	< LOD	51	< LOD	26	< LOD	108	104	65				
4/9/2012 15:35	29	30	6424	174		1	3	2			156	51	< LOD	44	< LOD	36	185	75	< LOD	878	274	32	< LOD	384	< LOD	61	7148	482	< LOD	163	< LOD	85	< LOD	494			< LOD	622			< LOD	70	< LOD	47	< LOD	23	< LOD	96	111	57				
4/9/2012 15:36	30	30	6424	174		1	3	2			219	53	< LOD	45	< LOD	37	116	71	< LOD	866	244	31	< LOD	395	< LOD	61	6420	464	< LOD	158	< LOD	85	< LOD	470			< LOD	611			< LOD	70	< LOD	44	< LOD	20	< LOD	97	< LOD	84				
4/9/2012 15:39	31	30	6424	174		1	3	2			187	50	< LOD	44	< LOD	33	164	71	< LOD	805	255	30	< LOD	371	< LOD	57	5825	437	< LOD	158	< LOD	82	486	318			< LOD	591			< LOD	66	< LOD	41	< LOD	22	< LOD	92	< LOD	79				
4/9/2012 15:41	32	30	6424	174		1	3	2			301	62	< LOD	53	< LOD	37	231	82	< LOD	922	274	34	< LOD	415	< LOD	61	7910	527	< LOD	178	< LOD	91	< LOD	526			675	443			< LOD	76	< LOD	49	< LOD	23	< LOD	102	< LOD	93				
4/9/2012 15:42	33	30	6424	174		1	3	2			245	59	< LOD	50	< LOD	39	< LOD	118	< LOD	933	286	35	< LOD	426	< LOD	72	6720	508	< LOD	180	< LOD	92	< LOD	539			895	462			< LOD	76	< LOD	52	< LOD	23	< LOD	104	< LOD	92				
4/9/2012 15:45	34	30	6424	174		1	3	4			139	49	< LOD	41	< LOD	35	< LOD	106	< LOD	886	281	32	< LOD	396	< LOD	61	5408	441	< LOD	167	< LOD	86	< LOD	488			< LOD	607			< LOD	70	< LOD	45	< LOD	21	< LOD	96	< LOD	84				
4/9/2012 15:46	35	30	6424	174		1	3	4			234	59	< LOD	50	< LOD	38	177	83	< LOD	941	272	34	< LOD	444	< LOD	62	8087	545	< LOD	186	< LOD	96	< LOD	538			1156	481			< LOD	75	< LOD	51	< LOD	25	< LOD	108	< LOD	93				
4/9/2012 15:47	36	30	6424	174		1	3	6			127	48	< LOD	42	< LOD	35	268	76	< LOD	839	249	30	< LOD	367	< LOD	61	6148	450	< LOD	159	< LOD	83	< LOD	460			617	405			72	47	< LOD	42	< LOD	22	< LOD	95	< LOD	82				
4/9/2012 15:48	37	30	6424	174		1	3	6			185	53	< LOD	46	< LOD	35	182	75	< LOD	860	264	32	< LOD	405	< LOD	63	6777	474	< LOD	168	< LOD	86	< LOD	470			634	417			< LOD	70	< LOD	47	< LOD	24	< LOD	99	< LOD	86				
4/9/2012 15:49	38	30	6424	174		1	3	6			103	43	< LOD	37	< LOD	33	192	67	< LOD	756	176	26	< LOD	339	< LOD	51	4014	374	< LOD	146	< LOD	74	< LOD	405			< LOD	537			< LOD	67	< LOD	39	< LOD	18	< LOD	84	< LOD	77				
4/9/2012 15:51	39	30	6424	174		1	3	8			160	47	< LOD	39	< LOD	31	< LOD	96	< LOD	786	237	28	< LOD	366	< LOD	55	5306	404	< LOD	145	< LOD	76	< LOD	438			< LOD	545			< LOD	65	< LOD	42	< LOD	20	< LOD	86	< LOD	76				
4/9/2012 15:52	40	30	6424	174		1	3	8			151	49	< LOD	42	< LOD	34	196	71	< LOD	796	201	28	< LOD	375	< LOD	59	6690	456	< LOD	150	< LOD	79	< LOD	460			738	397			81	47	< LOD	41	< LOD	21	< LOD	93	< LOD	82				
4/9/2012 15:52	41	30	6424	174		1	3	8			187	55	< LOD	47	< LOD	39	174	80	< LOD	952	232	31	< LOD	423	< LOD	68	6926	504	< LOD	175	< LOD	90	< LOD	536			< LOD	672			< LOD	74	< LOD	49	< LOD	21	< LOD	104	< LOD	91				
4/9/2012 15:58	42	30	6424	174		3	1	30			462	68	< LOD	60	< LOD	37	498	90	< LOD	909	323	35	< LOD	435	< LOD	66	6254	475	< LOD	175	< LOD	89	< LOD	488			< LOD	622			96	50	< LOD	49	< LOD	24	< LOD	103	< LOD	87				
4/9/2012 15:59	43	30	6424	174		3	1	30			273	58	< LOD	50	< LOD	38	256	81	< LOD	914	247	32	< LOD	417	< LOD	63	6419	483	< LOD	174	< LOD	88	< LOD	508			< LOD	651			< LOD	73	< LOD	45	< LOD	22	< LOD	102	< LOD	88				
4/9/2012 16:00	44	30	6424	174		3	1	30			185	46	< LOD	39	< LOD	33	186	65	990	514	205	26	< LOD	331	< LOD	56	4027	362	< LOD	139	< LOD	74	< LOD	401			< LOD	511			< LOD	61	< LOD	39	< LOD	18	< LOD	84	73	48				
4/9/2012 16:03	45	30	6424	174		3	1	30			724	79	< LOD	69	< LOD	37	562	91	< LOD	884	252	32	< LOD	402	< LOD	65	5638	463	< LOD	170	< LOD	87	< LOD	484			< LOD	628			< LOD	73	< LOD	47	< LOD	24	< LOD	99	< LOD	87				
4/9/2012 16:04	46	30	6424	174		3	1	2			395	63	< LOD	54	< LOD	37	401	83	< LOD	850	259	31	< LOD	406	< LOD	65	6275	464	< LOD	166	< LOD	86	< LOD	487			630	417			< LOD	69	< LOD	49	< LOD	24	< LOD	97	< LOD	83				
4/9/2012 16:05	47	30	6424	174		3	1	2			290	63	< LOD	56	< LOD	41	253	87	< LOD	994	325	37	< LOD	455	< LOD	72	7530	540	< LOD	186	< LOD	97	< LOD	575			< LOD	706			< LOD	78	< LOD	52	< LOD	26	< LOD	109	< LOD	94				
4/9/2012 16:06	48	30	6424	174		3	1	2			195	50	< LOD	45	< LOD	36	399	79	908	566	284	32	< LOD	361	< LOD	58	5558	429	< LOD	154	< LOD	80	< LOD	456			< LOD	586			< LOD	68	< LOD	43	< LOD	21	< LOD	90	< LOD	80				
4/9/2012 16:07	49	30	6424	174		3	1	4			268	61	< LOD	54	< LOD	40	258	85	< LOD	972	299	35	< LOD	418	< LOD	65	7262	519	< LOD	183	< LOD	94	< LOD	543			< LOD	688			< LOD	77	< LOD	51	< LOD	26	< LOD	109	< LOD	92				
4/9/2012 16:08	50	30	6424	174		3	1	4			226	52	< LOD	44	< LOD	33	147	68	< LOD	777	181	27	< LOD	360	< LOD	56	4968	412	< LOD	150	< LOD	78	< LOD	442			< LOD	564			< LOD	68	< LOD	41	< LOD	21	< LOD	87	< LOD	79				
4/9/2012 16:09	51	30	6424	174		3	1	4			213	55	< LOD	49	< LOD	37	191	78	1057	626	309	34	< LOD	398	< LOD	68	6227	475	< LOD	171	< LOD	88	< LOD	492			< LOD	637			< LOD	72	< LOD	48	< LOD	22	< LOD	103	< LOD	87				
4/9/2012 17:03	53	30	6424	103		1	4	0			1175	132	< LOD	114	< LOD	60	578	150	1861	1092	629	64	< LOD	739	< LOD	110	20962	1058	< LOD	319	< LOD	154	< LOD	980			< LOD	1152			< LOD	114	< LOD	81	< LOD	35	< LOD	174	184	102				
4/9/2012 17:05	54	30	6424	103		1	4	0			1028	124	< LOD	112	< LOD	59	861	156	< LOD	1541	584	61	< LOD	729	< LOD	110	19398	1007	< LOD	308	< LOD	148	< LOD	941			< LOD	1068			< LOD	107	< LOD	81	< LOD	38	< LOD	170	166	95				
4/9/2012 17:06	55	30	6424	103		1	4	0			1081	124	< LOD	109	< LOD	58	685	146	< LOD	1526	644	63	< LOD	706	< LOD	112	22017	1041	< LOD	295	< LOD	145	< LOD	929			1784	761			< LOD	106	< LOD	81	< LOD	35	< LOD	165	158	97				
4/9/2012 17:07	56	30	6424	103		1	4	2			780	91	< LOD	80	< LOD	43	382	100	1597	738	281	38	< LOD	483	< LOD	78	10287	640	< LOD	210	< LOD	102	< LOD	641			999	523			119	59	< LOD	58	< LOD	27	< LOD	119	152	71				
4/9/2012 17:08	57	30	6424	103		1	4	2			761	92	< LOD	81	< LOD	45	497	107	1453	758	352	42	< LOD	513	< LOD	77	12051	688	< LOD	216	< LOD	107	< LOD	658			< LOD	788			< LOD	89	< LOD	59	< LOD	27	< LOD	119	< LOD	110				
4/9/2012 17:09	58	30	6424	103		1	4	2			847	98	< LOD	88	< LOD	49	462	112	< LOD	1161	403	45	< LOD	536	< LOD	86	14592	765	< LOD	235	< LOD	116	< LOD	717			< LOD	853			< LOD	89	< LOD	67	< LOD	29	< LOD	132	< LOD	115				
4/9/2012 17:10	59	30	6424	103		1	4	4			503	84	< LOD	75	< LOD	47	213	102	1517	819	368	44	< LOD	549	< LOD	89	13887	757	< LOD	228	< LOD	115	< LOD	724			< LOD	852			< LOD	90	< LOD	67	< LOD	29	< LOD	132	< LOD	115				
4/9/2012 17:11	60	30	6424	103		1	4	4			647	91	< LOD	81	< LOD	45	296	104	1325	790	312	41	< LOD	511	< LOD	78	12025	719	< LOD	225	< LOD	110	< LOD	681			1146	572			< LOD	92	< LOD	60	< LOD	30	< LOD	124	127	77				
4/9/2012 17:12	61	30	6424	103		1	4	4			611	87	< LOD	78	< LOD	47	281	101	1509	792	333	41	< LOD	525	< LOD	84	13105	721	< LOD	220	< LOD	112	< LOD	692			912	560			< LOD	87	< LOD	60	< LOD	29	< LOD	123	146	74				
4/9/2012 17:14	62	30	6424	103		1	4	4			701	88	< LOD	80	< LOD	42	443	103	< LOD	1088	318	39	< LOD	493	< LOD	82	9315	620	< LOD	211	< LOD	105	< LOD	621			< LOD	777			< LOD	87	< LOD	57	< LOD	29	< LOD	116	118	71				
4/9/2012 17:15	63	30	6424	103		1	4	4			415	76	< LOD	68	< LOD	45	195	98	< LOD	1146	490	48	< LOD	531	< LOD	81	12403	703	< LOD	220	< LOD	112	< LOD	699			< LOD	811			< LOD	87	< LOD	61	< LOD	27	< LOD	129	< LOD	108				
4/9/2012 17:16	64	30	6424	103		1	4	6			631	82	< LOD	72	< LOD	40	329	96	1406	721	340	39	< LOD	495	< LOD	76	11026	634	< LOD	212	< LOD	104	< LOD	617			< LOD	749			< LOD	78	< LOD	56	< LOD	26	< LOD	114	< LOD	101				
4/9/2012 17:17	65	30	6424	103		1	4	6			310	75	< LOD	65	< LOD	44	173	102	< LOD	1193	388	45	< LOD	544	< LOD	84	12861	746	< LOD	234	< LOD	114	< LOD	697			1136	589			< LOD	92	< LOD	62	< LOD	29	< LOD	135	< LOD	115				
4/9/2012 17:18	66	30	6424	103		1	4	6			774	96	< LOD	87	< LOD	44	557	115	1413	797	322	42	< LOD	531	< LOD	83	13656	750	< LOD	237	< LOD	114	< LOD	717			1270	581			95	62	< LOD	58	< LOD	31	< LOD	126	< LOD	116				
4/9/2012 17:19	67	30	6424	103		1	4	6			665	85	< LOD	76	< LOD	43	346	97	< LOD	1057	307	38	< LOD	470	< LOD	84	11107	642	< LOD	202	< LOD	100	< LOD	609			< LOD	740			< LOD	84	< LOD	55	< LOD	27	< LOD	116	< LOD	104				
4/9/2012 17:20	68	30	6424	103		1	4	8			432	72	< LOD	64	< LOD	44	259	91	1485	706	289	37	< LOD	466	< LOD	77	8700	582	< LOD	198	< LOD	99	< LOD	596			< LOD	720			< LOD	82	< LOD	52	< LOD	23	< LOD	110	< LOD	101				
4/9/2012 17:22	69	30	6424	103		1	4	8			518	79	< LOD	70	< LOD	43	233	94	1126	732	360	41	< LOD	507	< LOD	70	11593	664	< LOD	209	< LOD	105	< LOD	642			1015	530			< LOD	85	< LOD	60	< LOD	28	< LOD	120	115	70				
4/9/2012 17:23	70	30	6424	103		1	4	8			428	73	< LOD	64	< LOD	39	171	89	1619	730	319	38	< LOD	467	< LOD	75	10030	617	< LOD	202	< LOD	102	< LOD	605			892	512			< LOD	84	< LOD	53	< LOD	27	< LOD	115	< LOD	102				
4/9/2012 19:14	71	30	6424	103		1	4	8			< LOD	91	< LOD	56	67	37	< LOD	181	< LOD	1325	255	39	1154	451	< LOD	92	10441	717	2116	230	< LOD	129	< LOD	746			< LOD	934			99	63	< LOD	74	< LOD	31	< LOD	150	< LOD	122				
4/9/2012 19:16	72	30	6424	103		1	4	8			4458	218	644	139	< LOD	57	5708	272	< LOD	1511	557	58	< LOD	715	213	92	25778	1089	2626	270	< LOD	145	< LOD	982			8330	971			108	71	< LOD	84	< LOD	44	< LOD	161	283	95				
4/9/2012 19:17	73	30	6424	103		1	4	8			273	64	< LOD	56	< LOD	42	740	109	< LOD	989	40	20	< LOD	480	< LOD	72	2699	437	246	142	< LOD	100	< LOD	523			< LOD	722			< LOD	79	< LOD	57	< LOD	25	< LOD	119	298	71				
4/9/2012 19:18	74	30	6424	103		1	4	8			848	95	108	59	< LOD	47	233	102	< LOD	1154	514	49	< LOD	557	< LOD	87	16076	773	< LOD	230	< LOD	114	< LOD	726			900	572			145	60	< LOD	65	< LOD	29	< LOD	133	255	76				
4/9/2012 19:19	75	30	6424	103		1	4	8			355	79	< LOD	68	< LOD	51	180	108	< LOD	1217	226	37	< LOD	620	< LOD	89	32092	1088	< LOD	244	< LOD	125	< LOD	924			1920	660			< LOD	95	< LOD	68	< LOD	32	< LOD	145	< LOD	120				
4/9/2012 19:21	76	30	6424	103		1	4	8			< LOD	68	< LOD	39	< LOD	39	< LOD	109	< LOD	945	< LOD	18	< LOD	444	< LOD	69	< LOD	488	< LOD	184	< LOD	97	< LOD	447			< LOD	644			< LOD	73	< LOD	51	< LOD	23	< LOD	113	< LOD	92				
4/10/2012 9:13	87	30	6424	110		1	3	0			632	117	< LOD	104	< LOD	65	904	178	< LOD	1783	441	59	< LOD	844	< LOD	133	17864	1086	< LOD	358	< LOD	174	< LOD	1033			< LOD	1295			< LOD	124	< LOD	94	< LOD	42	< LOD	199	273	112				
4/10/2012 9:14	88	30	6424	110		1	3	0			909	107	< LOD	93	< LOD	48	816	133	< LOD	1242	605	57	< LOD	588	< LOD	99	10982	731	< LOD	260	< LOD	124	< LOD	734			< LOD	860			141	67	< LOD	69	< LOD	33	< LOD	142	189	85				
4/10/2012 9:15	89	30	6424	110		1	3	0			937	120	< LOD	111	< LOD	58	1134	166	< LOD	1532	686	66	< LOD	714	< LOD	111	25561	1124	< LOD	311	< LOD	150	< LOD	996			< LOD	1108			< LOD	108	< LOD	80	< LOD	36	< LOD	166	226	98				
4/10/2012 9:16	90	30	6424	110		1	3	0			1037	124	< LOD	111	< LOD	60	1381	173	< LOD	1521	723	67	< LOD	711	< LOD	118	20671	1029	< LOD	312	< LOD	151	996	654			< LOD	1067			< LOD	110	< LOD	82	< LOD	35	< LOD	168	298	100				
4/10/2012 9:18	92	30	6424	110		1	3	2			824	95	< LOD	85	< LOD	45	879	122	< LOD	1091	986	66	< LOD	522	< LOD	89	13671	722	< LOD	224	< LOD	110	< LOD	679			< LOD	799			117	60	< LOD	59	< LOD	30	< LOD	122	340	77				
4/10/2012 9:19	94	21.08	6424	110		1	3	2			983	122	< LOD	108	< LOD	47	1205	155	< LOD	1235	250	44	< LOD	582	< LOD	95	15197	892	< LOD	257	< LOD	119	< LOD	772			< LOD	877			135	74	< LOD	68	< LOD	33	< LOD	137	244	91				
4/10/2012 9:24	96	30	6424	110		1	3	2			758	120	< LOD	111	< LOD	60	1030	174	< LOD	1652	994	82	< LOD	788	< LOD	132	21269	1112	< LOD	333	< LOD	163	< LOD	1057			1490	820			< LOD	118	< LOD	89	< LOD	40	< LOD	185	403	114				
4/10/2012 9:25	97	30	6424	110		1	3	2			984	110	< LOD	99	< LOD	50	1283	146	< LOD	1220	796	64	< LOD	586	< LOD	100	17477	862	< LOD	244	< LOD	120	< LOD	773			1145	611			< LOD	98	< LOD	68	< LOD	31	< LOD	141	238	85				
4/10/2012 9:28	98	30	6424	110		1	3	2			913	101	< LOD	93	< LOD	45	1293	137	< LOD	1097	425	46	< LOD	533	< LOD	87	16600	796	< LOD	228	< LOD	109	< LOD	722			1010	551			< LOD	92	< LOD	62	< LOD	31	< LOD	125	227	77				
4/10/2012 9:30	99	30	6424	110		1	3	4			561	84	< LOD	76	< LOD	46	618	114	< LOD	1141	402	45	< LOD	512	< LOD	82	12209	704	< LOD	219	< LOD	111	< LOD	677			< LOD	816			< LOD	89	< LOD	64	< LOD	28	< LOD	125	171	74				
4/10/2012 9:31	100	30	6424	110		1	3	4			522	82	< LOD	71	< LOD	44	421	107	< LOD	1096	424	45	< LOD	516	< LOD	80	10671	667	< LOD	225	< LOD	109	< LOD	656			< LOD	799			105	60	< LOD	59	< LOD	29	< LOD	124	158	72				
4/10/2012 9:32	101	30	6424	110		1	3	4			491	85	< LOD	75	< LOD	48	469	114	< LOD	1171	372	45	< LOD	554	< LOD	90	11062	711	< LOD	235	< LOD	115	< LOD	703			< LOD	835			< LOD	95	< LOD	61	< LOD	32	< LOD	133	123	77				
4/10/2012 9:33	102	30	6424	110		1	3	4			805	96	< LOD	88	< LOD	46	971	127	< LOD	1114	319	41	< LOD	501	< LOD	94	13720	743	< LOD	229	< LOD	109	< LOD	711			829	546			< LOD	91	< LOD	63	< LOD	29	< LOD	124	221	76				
4/10/2012 9:34	103	30	6424	110		1	3	4			696	89	< LOD	79	< LOD	41	859	119	< LOD	1062	301	39	< LOD	490	< LOD	83	12541	694	< LOD	216	< LOD	102	< LOD	623			< LOD	754			96	60	< LOD	57	< LOD	26	< LOD	117	135	70				
4/10/2012 9:35	104	30	6424	110		1	3	4			519	80	< LOD	72	< LOD	43	560	106	< LOD	1065	342	41	< LOD	471	< LOD	78	10211	634	< LOD	207	< LOD	101	< LOD	598			< LOD	720			< LOD	87	< LOD	56	< LOD	29	< LOD	116	< LOD	104				
4/10/2012 10:06	105	30	6424	115		1	2	0			607	101	< LOD	89	< LOD	53	825	148	< LOD	1480	587	60	< LOD	678	< LOD	113	16990	926	< LOD	289	< LOD	144	< LOD	868			< LOD	1033			< LOD	105	< LOD	78	< LOD	36	< LOD	167	295	93				
4/10/2012 10:07	106	30	6424	115		1	2	0			561	96	< LOD	85	< LOD	52	937	147	1497	974	540	56	< LOD	655	< LOD	101	15666	883	< LOD	272	< LOD	138	< LOD	822			< LOD	1023			< LOD	102	< LOD	76	< LOD	33	< LOD	159	303	91				
4/10/2012 10:08	108	30	6424	115		1	2	0			604	92	< LOD	82	< LOD	47	760	128	< LOD	1240	315	43	< LOD	561	< LOD	84	11982	745	< LOD	245	< LOD	118	< LOD	734			< LOD	863			< LOD	96	< LOD	67	< LOD	32	< LOD	133	138	83				
4/10/2012 10:09	109	30	6424	115		1	2	0			745	84	< LOD	75	< LOD	39	905	108	< LOD	937	277	35	< LOD	421	< LOD	74	10757	602	< LOD	183	< LOD	89	< LOD	575			< LOD	667			115	55	< LOD	50	< LOD	24	< LOD	104	99	65				
4/10/2012 10:11	110	30	6424	115		1	2	2			473	66	< LOD	60	< LOD	34	629	90	< LOD	812	236	30	< LOD	368	< LOD	62	9067	516	< LOD	166	< LOD	79	< LOD	483			< LOD	567			82	49	< LOD	45	< LOD	21	< LOD	91	107	57				
4/10/2012 10:11	111	30	6424	115		1	2	2			750	94	< LOD	83	< LOD	46	892	124	< LOD	1126	391	44	< LOD	520	< LOD	91	13752	740	< LOD	226	< LOD	113	< LOD	675			1093	562			142	62	< LOD	61	< LOD	30	< LOD	129	275	77				
4/10/2012 10:12	112	30	6424	115		1	2	2			466	66	< LOD	59	< LOD	34	585	88	< LOD	806	163	27	< LOD	368	< LOD	68	8858	515	< LOD	162	< LOD	79	< LOD	476			720	396			84	49	< LOD	46	< LOD	21	< LOD	89	94	56				
4/10/2012 10:14	113	30	6424	115		1	2	2			573	70	< LOD	60	< LOD	34	576	86	1269	559	196	28	< LOD	383	< LOD	66	7712	479	< LOD	160	< LOD	78	< LOD	457			< LOD	553			120	49	< LOD	40	< LOD	23	< LOD	91	89	56				
4/10/2012 10:15	115	30	6424	115		1	2	4			1083	102	< LOD	93	< LOD	42	1261	129	< LOD	1036	339	40	< LOD	494	< LOD	83	16084	746	< LOD	216	< LOD	100	< LOD	667			< LOD	733			101	58	< LOD	56	< LOD	26	< LOD	117	134	71				
4/10/2012 10:16	116	30	6424	115		1	2	4			841	91	< LOD	80	< LOD	41	1061	117	< LOD	937	206	32	< LOD	442	< LOD	80	12938	662	< LOD	196	< LOD	93	< LOD	601			1024	471			< LOD	82	< LOD	48	< LOD	26	< LOD	105	151	68				
4/10/2012 10:17	117	30	6424	115		1	2	4			693	89	< LOD	79	< LOD	42	589	112	< LOD	1110	346	42	< LOD	539	< LOD	87	12973	713	< LOD	221	< LOD	108	< LOD	687			< LOD	782			< LOD	87	< LOD	61	< LOD	26	< LOD	120	< LOD	106				
4/10/2012 10:18	118	30	6424	115		1	2	4			730	86	< LOD	77	< LOD	41	966	115	1170	688	231	34	< LOD	454	< LOD	75	11801	644	< LOD	197	< LOD	100	< LOD	604			< LOD	702			97	56	< LOD	52	< LOD	25	< LOD	110	151	69				
4/10/2012 10:19	119	30	6424	115		1	2	4			639	95	< LOD	85	< LOD	49	720	131	1547	900	484	52	< LOD	613	< LOD	88	17138	862	< LOD	260	< LOD	128	< LOD	789			< LOD	916			< LOD	95	< LOD	69	< LOD	32	< LOD	141	< LOD	121				
4/10/2012 10:22	120	30	6424	115		1	2	6			514	64	< LOD	57	< LOD	31	2594	132	786	514	164	25	< LOD	346	< LOD	63	9770	497	< LOD	157	< LOD	72	< LOD	468			< LOD	538			< LOD	65	< LOD	41	< LOD	20	< LOD	81	< LOD	76				
4/10/2012 10:22	121	30	6424	115		1	2	6			1314	117	< LOD	104	< LOD	44	4069	205	< LOD	1067	237	37	< LOD	518	< LOD	97	19955	857	< LOD	233	< LOD	105	< LOD	740			1149	545			< LOD	93	< LOD	59	< LOD	30	< LOD	118	121	76				
4/10/2012 10:24	122	30	6424	115		1	2	6			983	102	< LOD	91	< LOD	44	2429	163	< LOD	968	197	34	< LOD	479	< LOD	82	15410	753	< LOD	215	< LOD	97	< LOD	666			842	489			102	61	< LOD	56	< LOD	26	< LOD	108	212	76				
4/10/2012 10:25	123	30	6424	115		1	2	6			557	87	< LOD	78	< LOD	49	1246	139	< LOD	1193	474	49	< LOD	564	99	66	13644	755	< LOD	233	< LOD	118	< LOD	725			872	580			< LOD	92	< LOD	62	< LOD	31	< LOD	130	< LOD	115				
4/10/2012 10:26	124	30	6424	115		1	2	6			1301	127	< LOD	117	< LOD	52	11152	347	2305	944	371	48	< LOD	610	161	83	26481	1059	593	206	< LOD	124	< LOD	918			1110	660			< LOD	102	< LOD	72	< LOD	34	< LOD	144	162	88				
4/10/2012 10:31	125	30	6424	115		1	2	10			661	79	< LOD	69	< LOD	37	752	100	< LOD	896	202	30	< LOD	423	< LOD	61	13272	633	< LOD	179	< LOD	84	< LOD	560			< LOD	633			96	53	< LOD	47	< LOD	25	< LOD	98	< LOD	93				
4/10/2012 10:33	126	30	6424	115		1	2	10			624	78	< LOD	69	< LOD	37	667	99	< LOD	915	216	32	< LOD	418	< LOD	67	11216	603	< LOD	182	< LOD	87	< LOD	567			669	438			< LOD	80	< LOD	48	< LOD	25	< LOD	100	< LOD	94				
4/10/2012 10:34	127	30	6424	115		1	2	10			572	81	< LOD	74	< LOD	42	628	108	1218	719	304	38	< LOD	495	< LOD	81	14296	713	< LOD	203	< LOD	100	< LOD	660			801	512			< LOD	86	< LOD	56	< LOD	27	< LOD	116	< LOD	104				
4/10/2012 11:35	128	30	6424	115		1	2	10			193	64	< LOD	49	< LOD	38	< LOD	106	885	559	< LOD	14	< LOD	386	< LOD	63	2749	423	< LOD	177	< LOD	79	< LOD	416			< LOD	565			136	63	76	35	< LOD	28	< LOD	87	121	63				
4/10/2012 11:49	130	30	6424	105		3	4	30			619	94	< LOD	83	< LOD	52	907	135	1627	866	387	47	< LOD	578	< LOD	83	9797	705	< LOD	251	< LOD	120	< LOD	708			< LOD	870			< LOD	97	< LOD	65	< LOD	33	< LOD	137	< LOD	118				
4/10/2012 11:52	132	30	6424	105		3	4	30			648	84	< LOD	72	< LOD	43	652	107	< LOD	1015	278	37	< LOD	468	< LOD	73	7720	568	< LOD	200	< LOD	97	< LOD	570			< LOD	701			< LOD	84	< LOD	54	< LOD	27	< LOD	112	114	67				
4/10/2012 11:55	134	30	6424	105		3	4	30			653	82	< LOD	72	< LOD	40	736	104	1318	653	184	30	< LOD	435	< LOD	75	11013	613	< LOD	188	< LOD	91	< LOD	576			< LOD	671			< LOD	81	< LOD	48	< LOD	27	< LOD	100	< LOD	97				
4/10/2012 11:57	135	30	6424	105		3	4	2			380	106	< LOD	95	< LOD	66	694	160	< LOD	1502	210	45	< LOD	705	572	122	7069	796	< LOD	327	< LOD	142	< LOD	845			< LOD	1019			< LOD	129	< LOD	76	< LOD	46	< LOD	161	< LOD	150				
4/10/2012 11:58	136	30	6424	105		3	4	2			381	59	< LOD	51	< LOD	31	335	75	< LOD	788	169	26	< LOD	368	< LOD	58	7006	455	< LOD	153	< LOD	76	< LOD	461			< LOD	554			< LOD	69	< LOD	41	< LOD	18	< LOD	87	< LOD	77				
4/10/2012 11:58	137	27.09	6424	105		3	4	2			503	86	< LOD	73	< LOD	51	355	108	1669	812	264	40	< LOD	534	< LOD	90	8916	669	< LOD	223	< LOD	113	< LOD	682			950	571			< LOD	95	< LOD	65	< LOD	28	< LOD	127	< LOD	113				
4/10/2012 12:01	139	30	6424	105		3	4	2			375	74	< LOD	64	< LOD	42	326	100	1503	754	230	35	< LOD	513	< LOD	78	8777	619	< LOD	211	< LOD	105	< LOD	641			< LOD	756			< LOD	85	< LOD	58	< LOD	28	< LOD	119	103	68				
4/10/2012 13:03	140	30	6424	106		1	2	0			532	87	< LOD	78	< LOD	46	589	119	1488	826	375	45	< LOD	553	< LOD	92	12065	731	< LOD	234	< LOD	116	< LOD	698			< LOD	860			123	64	< LOD	67	< LOD	30	< LOD	131	202	79				
4/10/2012 13:04	141	30	6424	106		1	2	0			759	97	< LOD	86	< LOD	47	888	129	1565	813	408	47	< LOD	556	< LOD	90	13197	753	< LOD	239	< LOD	112	< LOD	705			1245	587			< LOD	93	< LOD	67	< LOD	31	< LOD	131	252	81				
4/10/2012 13:04	142	30	6424	106		1	2	0			594	97	< LOD	83	< LOD	54	411	120	< LOD	1212	324	46	< LOD	576	< LOD	90	8345	700	< LOD	244	< LOD	120	< LOD	717			< LOD	872			< LOD	103	< LOD	66	< LOD	31	< LOD	141	271	86				
4/10/2012 13:07	143	30	6424	106		1	2	2			318	67	< LOD	60	< LOD	41	256	90	< LOD	1017	246	34	< LOD	469	< LOD	73	9559	600	< LOD	193	< LOD	99	< LOD	593			783	487			< LOD	83	< LOD	54	< LOD	27	< LOD	111	< LOD	99				
4/10/2012 13:08	144	30	6424	106		1	2	2			288	69	< LOD	62	< LOD	43	260	98	< LOD	1105	315	40	< LOD	510	< LOD	75	8956	628	< LOD	214	< LOD	111	< LOD	641			< LOD	795			< LOD	87	< LOD	56	< LOD	27	< LOD	120	< LOD	108				
4/10/2012 13:09	145	30	6424	106		1	2	2			210	49	< LOD	42	< LOD	32	172	64	< LOD	707	162	25	< LOD	334	< LOD	51	5795	407	< LOD	141	< LOD	69	< LOD	421			< LOD	511			< LOD	66	< LOD	38	< LOD	20	< LOD	80	< LOD	76				
4/10/2012 13:11	147	30	6424	106		1	4	0			274	70	< LOD	61	< LOD	47	230	100	< LOD	1176	366	43	< LOD	538	< LOD	82	8657	634	< LOD	218	< LOD	114	< LOD	652			< LOD	802			< LOD	88	< LOD	61	< LOD	30	< LOD	129	127	73				
4/10/2012 13:12	148	30	6424	106		1	4	0			300	67	< LOD	59	< LOD	44	204	92	< LOD	1063	306	38	< LOD	493	< LOD	79	8353	588	< LOD	206	< LOD	103	< LOD	596			< LOD	722			< LOD	83	< LOD	59	< LOD	26	< LOD	120	< LOD	106				
4/10/2012 13:13	149	30	6424	106		1	4	0			299	65	< LOD	57	< LOD	41	183	87	< LOD	1008	325	38	< LOD	467	< LOD	79	7663	554	< LOD	193	< LOD	99	< LOD	573			< LOD	725			< LOD	81	< LOD	53	< LOD	23	< LOD	115	125	68				
4/10/2012 13:14	150	30	6424	106		1	4	2			256	56	< LOD	47	< LOD	33	200	73	< LOD	809	197	28	< LOD	368	< LOD	64	5501	435	< LOD	163	< LOD	80	< LOD	458			< LOD	563			92	49	< LOD	45	< LOD	22	< LOD	91	< LOD	85				
4/10/2012 13:15	151	30	6424	106		1	4	2			206	64	< LOD	56	< LOD	47	< LOD	139	< LOD	1125	411	44	< LOD	497	< LOD	85	8864	627	< LOD	211	< LOD	112	< LOD	630			1181	559			< LOD	85	< LOD	59	< LOD	26	< LOD	126	109	72				
4/10/2012 13:17	153	30	6424	106		1	4	2			252	69	< LOD	59	< LOD	47	215	98	< LOD	1115	338	42	< LOD	512	< LOD	81	7443	607	< LOD	214	< LOD	111	< LOD	624			< LOD	811			< LOD	91	< LOD	61	< LOD	26	< LOD	129	115	73				
4/10/2012 14:45	154	30	6424	127		1	2	0			461	87	< LOD	78	< LOD	51	649	125	< LOD	1257	477	52	< LOD	588	< LOD	103	10711	730	< LOD	240	< LOD	122	< LOD	713			< LOD	877			< LOD	99	< LOD	69	< LOD	33	< LOD	138	155	82				
4/10/2012 14:46	155	30	6424	127		1	2	0			546	88	< LOD	78	< LOD	47	650	124	< LOD	1213	467	50	< LOD	596	< LOD	88	11954	741	< LOD	247	< LOD	119	< LOD	729			1030	600			< LOD	94	< LOD	65	< LOD	30	< LOD	139	132	81				
4/10/2012 14:47	156	30	6424	127		1	2	0			659	107	< LOD	93	66	43	762	148	< LOD	1443	571	61	< LOD	659	< LOD	103	14172	899	< LOD	287	< LOD	144	< LOD	861			< LOD	1044			< LOD	111	< LOD	82	< LOD	36	< LOD	159	< LOD	142				
4/10/2012 14:48	157	30	6424	127		1	2	0			219	61	< LOD	53	< LOD	39	199	88	< LOD	986	249	34	< LOD	448	< LOD	72	5789	513	< LOD	196	< LOD	98	< LOD	568			< LOD	689			< LOD	81	< LOD	55	< LOD	25	< LOD	112	150	67				
4/10/2012 14:49	158	30	6424	127		1	2	2			126	60	< LOD	53	< LOD	46	163	98	< LOD	1140	335	41	< LOD	531	< LOD	81	8986	636	< LOD	223	< LOD	115	< LOD	628			< LOD	809			< LOD	86	< LOD	60	< LOD	27	< LOD	127	154	74				
4/10/2012 14:50	159	30	6424	127		1	2	2			228	66	< LOD	57	< LOD	45	146	96	< LOD	1113	342	41	< LOD	543	< LOD	78	8327	618	< LOD	221	< LOD	115	< LOD	638			< LOD	801			< LOD	87	< LOD	59	< LOD	28	< LOD	128	< LOD	108				
4/10/2012 14:52	160	30	6424	127		1	4	0			352	69	< LOD	62	< LOD	41	466	100	< LOD	1003	435	44	< LOD	462	< LOD	80	8846	590	< LOD	201	< LOD	100	< LOD	598			< LOD	718			95	56	< LOD	56	< LOD	26	< LOD	117	182	68				
4/10/2012 14:54	161	30	6424	127		1	4	0			541	87	< LOD	74	< LOD	49	594	120	< LOD	1210	471	50	< LOD	554	< LOD	92	11295	721	< LOD	234	< LOD	117	753	490			< LOD	872			< LOD	92	< LOD	66	< LOD	29	< LOD	133	230	80				
4/10/2012 14:54	162	30	6424	127		1	4	0			439	83	< LOD	74	< LOD	47	433	115	< LOD	1193	509	51	< LOD	549	< LOD	88	11981	735	< LOD	242	< LOD	118	< LOD	716			< LOD	868			< LOD	95	< LOD	65	< LOD	31	< LOD	134	230	81				
4/10/2012 14:55	163	30	6424	127		1	4	0			427	82	< LOD	75	< LOD	45	552	118	< LOD	1235	494	51	< LOD	569	< LOD	88	11247	717	< LOD	237	< LOD	117	< LOD	730			< LOD	872			< LOD	93	< LOD	65	< LOD	31	< LOD	133	197	80				
4/10/2012 14:55	164	30	6424	127		1	4	0			385	81	< LOD	72	< LOD	45	599	122	< LOD	1249	525	53	< LOD	565	< LOD	92	12002	747	< LOD	241	< LOD	122	< LOD	741			1173	613			< LOD	96	< LOD	67	< LOD	33	< LOD	142	130	81				
4/10/2012 14:58	165	30	6424	127		1	4	0			522	87	< LOD	76	< LOD	49	500	118	1923	867	519	52	< LOD	583	< LOD	92	12006	741	< LOD	239	< LOD	122	< LOD	719			< LOD	884			< LOD	93	< LOD	66	< LOD	30	< LOD	137	162	82				
4/10/2012 14:59	166	30	6424	127		1	4	0			478	83	< LOD	72	< LOD	48	562	117	1258	812	504	51	< LOD	539	< LOD	88	11588	715	< LOD	232	< LOD	116	< LOD	702			< LOD	813			< LOD	92	< LOD	62	< LOD	29	< LOD	134	121	79				
4/10/2012 14:59	167	30	6424	127		1	4	0			447	76	< LOD	66	< LOD	43	434	102	< LOD	1066	430	44	< LOD	495	< LOD	84	9424	619	< LOD	213	< LOD	103	< LOD	618			< LOD	759			120	59	< LOD	57	< LOD	27	< LOD	117	< LOD	108				
4/10/2012 15:01	168	30	6424	127		1	4	0			497	88	< LOD	78	< LOD	47	677	127	< LOD	1277	723	61	< LOD	566	< LOD	98	13020	776	< LOD	247	< LOD	123	< LOD	745			1081	617			< LOD	98	< LOD	69	< LOD	32	< LOD	136	183	84				
4/10/2012 15:02	169	30	6424	127		1	4	0			734	103	< LOD	89	< LOD	54	1006	145	< LOD	1363	824	67	< LOD	629	< LOD	87	16189	871	< LOD	268	< LOD	133	< LOD	821			< LOD	978			154	70	< LOD	74	< LOD	34	< LOD	151	333	92				
4/10/2012 15:03	170	27.83	6424	127		1	4	0			660	100	< LOD	88	< LOD	49	1067	148	1486	940	691	63	< LOD	613	< LOD	97	16541	888	< LOD	263	< LOD	134	< LOD	809			< LOD	974			< LOD	99	< LOD	72	< LOD	32	< LOD	150	228	88				
4/10/2012 15:04	172	30	6424	127		1	4	0			529	92	< LOD	82	< LOD	52	682	133	< LOD	1340	677	61	< LOD	627	< LOD	100	14860	839	< LOD	264	< LOD	130	< LOD	800			< LOD	916			< LOD	100	< LOD	73	< LOD	32	< LOD	143	267	89				
4/10/2012 15:06	173	30	6424	127		1	4	2			415	74	< LOD	65	< LOD	41	566	108	< LOD	1110	361	41	< LOD	492	< LOD	80	8649	608	< LOD	209	< LOD	105	< LOD	606			< LOD	784			< LOD	85	< LOD	59	< LOD	25	< LOD	120	168	73				
4/10/2012 15:08	174	30	6424	127		1	4	2			324	66	< LOD	56	< LOD	41	307	92	< LOD	976	303	37	< LOD	465	< LOD	77	7564	549	< LOD	197	< LOD	98	< LOD	562			< LOD	699			< LOD	79	< LOD	52	< LOD	24	< LOD	111	< LOD	98				

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

In-Situ XRF Data

Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment		Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
4/10/2012 15:09	175	30	6424	127		1	4	2			250	61	< LOD	52	< LOD	38	372	90	< LOD	920	232	33	< LOD	429	< LOD	67	7493	532	< LOD	182	< LOD	91	< LOD	516			< LOD	661			< LOD	80	< LOD	48	< LOD	25	< LOD	105	< LOD	96				
4/10/2012 15:36	176	30	6424	146		1		0			438	76	< LOD	64	< LOD	43	237	95	< LOD	1073	327	40	< LOD	514	< LOD	72	9771	630	< LOD	210	< LOD	104	< LOD	629			< LOD	764			< LOD	86	< LOD	55	< LOD	28	< LOD	121	127	70				
4/10/2012 15:37	177	30	6424	146		1		0			333	67	< LOD	57	< LOD	39	213	88	< LOD	1001	274	36	< LOD	460	< LOD	73	9737	598	< LOD	194	102	67	< LOD	583			< LOD	696			< LOD	80	< LOD	50	< LOD	25	< LOD	110	< LOD	96				
4/10/2012 15:38	178	30	6424	146		1		0			163	66	< LOD	58	< LOD	49	163	103	< LOD	1214	397	46	< LOD	552	< LOD	83	10989	708	< LOD	236	< LOD	119	752	487			< LOD	877			< LOD	91	< LOD	67	< LOD	29	< LOD	135	< LOD	117				
4/10/2012 15:39	179	30	6424	146		1		0			182	63	< LOD	57	< LOD	43	< LOD	140	< LOD	1152	363	42	< LOD	508	< LOD	86	9015	627	< LOD	221	< LOD	109	< LOD	633			< LOD	790			< LOD	84	< LOD	60	< LOD	28	< LOD	124	< LOD	107				
4/10/2012 15:40	180	30	6424	146		1		0			284	63	< LOD	55	< LOD	40	245	87	< LOD	926	308	37	< LOD	434	< LOD	74	8130	551	< LOD	186	< LOD	97	< LOD	555			< LOD	654			< LOD	78	< LOD	51	< LOD	23	< LOD	109	< LOD	95				
4/10/2012 15:45	181	30	6424	146		1		0			256	78	< LOD	64	< LOD	51	< LOD	167	< LOD	1319	456	52	< LOD	613	< LOD	103	11854	788	< LOD	258	< LOD	130	< LOD	759			< LOD	950			< LOD	101	< LOD	71	< LOD	31	< LOD	148	132	85				
4/10/2012 15:50	182	30	6424	146		3	2				234	50	< LOD	42	< LOD	30	204	65	< LOD	710	106	21	< LOD	324	< LOD	53	4617	373	< LOD	140	75	48	< LOD	394			< LOD	487			75	44	< LOD	34	< LOD	20	< LOD	78	< LOD	74				
4/10/2012 15:51	183	30	6424	146		3	2				< LOD	544	< LOD	313	< LOD	293	< LOD	961	22165	5655	< LOD	105	< LOD	3352	< LOD	600	33669	4117	< LOD	1571	< LOD	673	< LOD	4051			< LOD	5112			< LOD	596	< LOD	396	< LOD	192	< LOD	698	< LOD	703				
4/10/2012 15:52	184	30	6424	146		3	2				320	57	< LOD	48	< LOD	35	307	76	< LOD	785	228	29	< LOD	391	< LOD	62	7180	465	< LOD	157	< LOD	82	< LOD	467			< LOD	569			< LOD	69	< LOD	44	< LOD	18	< LOD	91	< LOD	82				
4/10/2012 15:53	185	30	6424	146		3	2				212	62	< LOD	53	< LOD	43	< LOD	122	< LOD	960	134	28	< LOD	429	< LOD	75	5467	502	< LOD	187	< LOD	92	< LOD	491			< LOD	668			108	58	< LOD	56	< LOD	24	< LOD	103	< LOD	99				
4/10/2012 16:53	186	30	6424	133		3	1				299	70	< LOD	60	< LOD	41	197	95	< LOD	1110	336	40	< LOD	492	< LOD	83	10195	646	< LOD	208	< LOD	106	< LOD	635			< LOD	797			< LOD	86	< LOD	56	< LOD	28	< LOD	121	< LOD	105				
4/10/2012 16:55	187	30	6424	133		3	1				230	61	< LOD	53	< LOD	39	132	85	< LOD	1004	283	35	< LOD	462	< LOD	76	7842	550	< LOD	194	< LOD	102	< LOD	561			< LOD	700			< LOD	77	< LOD	53	< LOD	26	< LOD	113	< LOD	96				
4/10/2012 16:56	188	30	6424	133		3	1				108	58	< LOD	49	< LOD	47	< LOD	135	< LOD	1107	315	39	< LOD	508	< LOD	81	8008	596	< LOD	207	< LOD	108	< LOD	610			< LOD	759			< LOD	84	< LOD	60	< LOD	27	< LOD	123	< LOD	105				
4/10/2012 16:57	189	30	6424	133		3	1				167	55	< LOD	47	< LOD	40	228	83	< LOD	921	224	32	< LOD	415	< LOD	72	5183	473	< LOD	176	< LOD	92	< LOD	486			< LOD	668			< LOD	78	< LOD	46	< LOD	22	< LOD	103	108	62				
4/10/2012 16:58	190	30	6424	133		3	2				209	65	< LOD	56	< LOD	43	334	100	1173	761	322	40	< LOD	506	< LOD	76	8303	609	< LOD	208	< LOD	110	< LOD	617			< LOD	776			< LOD	87	< LOD	60	< LOD	28	< LOD	122	< LOD	108				
4/10/2012 16:59	191	30	6424	133		3	2				592	73	< LOD	62	< LOD	39	898	101	< LOD	868	203	29	< LOD	390	< LOD	63	6969	489	< LOD	174	< LOD	86	< LOD	497			< LOD	610			< LOD	73	< LOD	46	< LOD	23	< LOD	98	118	59				
4/10/2012 17:00	192	30	6424	133		3	2				270	61	< LOD	53	< LOD	40	339	89	< LOD	911	213	31	< LOD	426	< LOD	68	7895	540	< LOD	187	< LOD	92	< LOD	530			690	452			< LOD	78	< LOD	49	< LOD	23	< LOD	104	< LOD	94				
4/10/2012 17:01	193	30	6424	133		3	2				150	58	< LOD	50	< LOD	43	216	93	< LOD	1063	384	41	< LOD	489	< LOD	79	7455	570	< LOD	205	< LOD	106	< LOD	585			< LOD	761			< LOD	81	< LOD	55	< LOD	26	< LOD	119	110	67				
4/10/2012 17:03	194	30	6424	133		3	3				179	57	< LOD	47	< LOD	40	< LOD	124	< LOD	1044	371	39	< LOD	470	< LOD	68	6030	514	< LOD	192	< LOD	101	< LOD	555			< LOD	728			< LOD	77	< LOD	53	< LOD	23	< LOD	116	< LOD	97				
4/10/2012 17:04	195	30	6424	133		3	3				153	65	< LOD	56	< LOD	49	263	107	1314	847	506	50	< LOD	571	< LOD	87	11447	709	< LOD	236	< LOD	122	< LOD	685			989	603			< LOD	88	< LOD	66	< LOD	31	< LOD	138	< LOD	115				
4/10/2012 17:17	197	30	6424	155		3	1				167	42	< LOD	35	< LOD	28	84	54	760	444	142	22	< LOD	289	< LOD	49	3559	321	< LOD	122	< LOD	64	< LOD	348			< LOD	462			72	40	< LOD	36	< LOD	17	< LOD	75	< LOD	67				
4/10/2012 17:18	198	30	6424	155		3	1				260	65	< LOD	58	< LOD	43	< LOD	136	< LOD	1115	455	45	< LOD	525	< LOD	80	7183	573	< LOD	209	< LOD	108	< LOD	599			< LOD	809			< LOD	81	< LOD	60	< LOD	26	< LOD	128	< LOD	101				
4/10/2012 17:19	199	29.33	6424	155		3	1				< LOD	810	< LOD	472	< LOD	456	< LOD	1404	41706	8811	< LOD	135	5811	3507	< LOD	808	49272	6055	< LOD	2345	< LOD	1016	< LOD	5868			< LOD	7864			< LOD	822	< LOD	566	< LOD	253	< LOD	1072	1165	680				
4/10/2012 17:48	200	30	6424								441	90	< LOD	80	< LOD	53	313	126	< LOD	1380	266	42	< LOD	681	< LOD	110	41084	1289	< LOD	278	< LOD	141	< LOD	1079			1447	718			< LOD	103	< LOD	83	< LOD	33	< LOD	162	< LOD	138				
4/10/2012 17:50	201	30	6424								< LOD	96	74	42	< LOD	58	< LOD	199	< LOD	1437	329	44	1660	506	< LOD	102	12435	799	2848	263	< LOD	141	< LOD	815			< LOD	989			< LOD	99	< LOD	83	< LOD	33	< LOD	158	191	90				
4/10/2012 17:51	202	30	6424								1047	110	< LOD	102	65	37	320	118	< LOD	1293	744	61	< LOD	617	< LOD	105	19978	900	< LOD	259	< LOD	135	< LOD	828			< LOD	944			< LOD	93	< LOD	76	< LOD	32	< LOD	152	287	87				
4/10/2012 17:52	203	30	6424								4543	221	621	141	< LOD	54	5757	275	< LOD	1533	617	61	< LOD	698	264	96	27021	1113	2957	278	< LOD	145	< LOD	989			8492	981			< LOD	107	< LOD	81	< LOD	44	< LOD	162	347	100				
4/10/2012 17:53	204	30	6424								299	72	< LOD	65	< LOD	47	899	129	< LOD	1210	68	24	< LOD	566	< LOD	84	2322	492	< LOD	245	< LOD	123	< LOD	591			< LOD	860			< LOD	90	77	49	< LOD	30	< LOD	143	293	82				
4/10/2012 17:55	205	30	6424								117	67	< LOD	61	90	40	213	131	< LOD	1382	320	43	1361	480	< LOD	97	12093	773	2582	249	< LOD	138	< LOD	793			< LOD	1002			< LOD	93	< LOD	75	< LOD	32	< LOD	155	< LOD	129				
4/10/2012 17:56	206	30	6424								< LOD	96	65	41	< LOD	57	281	136	< LOD	1428	292	42	1381	488	< LOD	96	12236	788	2529	253	< LOD	140	< LOD	796			< LOD	975			< LOD	99	< LOD	80	< LOD	35	< LOD	155	< LOD	130				
4/11/2012 16:21	208	30	6424								374	79	< LOD	71	< LOD	46	314	117	< LOD	1272	380	45	< LOD	619	< LOD	101	39518	1180	< LOD	258	< LOD	129	< LOD	962			1921	684			< LOD	93	< LOD	68	< LOD	30	< LOD	148	129	82				
4/12/2012 8:38	210	30	6424								382	82	< LOD	74	< LOD	47	199	112	< LOD	1341	288	42	< LOD	633	< LOD	100	39722	1217	< LOD	259	< LOD	128	1366	688			1551	671			< LOD	99	< LOD	73	< LOD	30	< LOD	147	< LOD	128				
4/12/2012 8:39	211	30	6424								4036	197	565	125	< LOD	51	5245	245	< LOD	1298	566	55	< LOD	633	202	83	23625	981	2310	239	< LOD	125	< LOD	859			8063	875			< LOD	98	< LOD	72	< LOD	39	< LOD	142	382	87				
4/12/2012 8:41	212	30	6424								929	105	< LOD	97	< LOD	51	241	113	< LOD	1297	708	59	< LOD	614	< LOD	101	20000	895	< LOD	257	< LOD	130	< LOD	823			1160	645			106	63	< LOD	72	< LOD	33	< LOD	150	368	86				
4/12/2012 8:43	213	30	6424								256	67	< LOD	61	< LOD	43	893	123	< LOD	1103	71	24	< LOD	527	< LOD	87	2142	461	< LOD	232	< LOD	114	< LOD	562			934	552			< LOD	86	< LOD	64	< LOD	27	< LOD	131	261	80				
4/12/2012 8:46	214	30	6424								< LOD	96	83	41	88	40	245	132	< LOD	1370	285	41	1358	478	< LOD	97	12517	783	2628	251	< LOD	137	< LOD	797			< LOD	938			< LOD	94	< LOD	81	< LOD	33	< LOD	155	< LOD	129				
4/12/2012 8:48	215	30	6424								< LOD	68	< LOD	39	< LOD	40	< LOD	112	< LOD	874	< LOD	16	< LOD	430	< LOD	66	< LOD	495	< LOD	182	< LOD	95	< LOD	453			< LOD	630			< LOD	74	< LOD	52	< LOD	23	< LOD	108	< LOD	94				
4/12/2012 9:34	216	30	6424	222		1	1	0			< LOD	78	< LOD	44	< LOD	41	215	90	< LOD	1042	207	32	< LOD	487	< LOD	73	3949	474	< LOD	195	< LOD	104	< LOD	531			< LOD	714			< LOD	82	< LOD	57	< LOD	27	< LOD	119	< LOD	98				
4/12/2012 9:35	217	30	6424	222		1	1	0			104	52	< LOD	45	< LOD	41	< LOD	119	< LOD	1009	221	32	< LOD	451	< LOD	71	3708	450	< LOD	185	< LOD	99	< LOD	529			< LOD	710			< LOD	77	< LOD	50	< LOD	24	< LOD	113	114	64				
4/12/2012 9:36	218	30	6424	222		1	1	0			119	55	< LOD	46	< LOD	42	164	86	< LOD	1007	173	30	< LOD	466	< LOD	71	4008	470	< LOD	190	< LOD	99	< LOD	546			< LOD	702			< LOD	80	< LOD	54	< LOD	25	< LOD	112	187	66				
4/12/2012 9:55	219	30	6424	221		3	1	30			96	62	< LOD	54	< LOD	45	< LOD	152	< LOD	1262	534	52	< LOD	561	< LOD	90	12724	748	< LOD	229	< LOD	121	< LOD	729			< LOD	893			< LOD	91	< LOD	63	< LOD	30	< LOD	136	138	80				
4/12/2012 9:56	220	30	6424	221		3	1	30			144	68	< LOD	59	< LOD	53	< LOD	163	1409	883	429	49	< LOD	609	< LOD	98	13762	803	< LOD	251	< LOD	124	< LOD	750			< LOD	924			< LOD	98	< LOD	69	< LOD	30	< LOD	143	165	84				
4/12/2012 9:57	221	30	6424	221		3	1	30			99	62	< LOD	52	< LOD	47	< LOD	145	< LOD	1193	388	46	< LOD	572	< LOD	84	10938	711	< LOD	235	< LOD	116	< LOD	722			943	580			< LOD	94	< LOD	65	< LOD	28	< LOD	133	236	81				
4/12/2012 9:58	224	30	6424	221		3	1	30			89	57	< LOD	50	< LOD	42	213	91	1079	711	349	41	< LOD	487	< LOD	77	10832	649	< LOD	197	< LOD	100	< LOD	602			769	506			< LOD	86	< LOD	57	< LOD	29	< LOD	117	154	72				
4/12/2012 9:59	225	30	6424	221		3	1	30			125	79	< LOD	69	< LOD	56	196	130	< LOD	1554	481	58	< LOD	734	< LOD	108	15056	949	< LOD	290	< LOD	149	< LOD	916			< LOD	1100			< LOD	118	< LOD	83	< LOD	39	< LOD	166	< LOD	150				
4/12/2012 10:00	227	30	6424	221		3	1	2			118	63	< LOD	54	< LOD	50	172	99	< LOD	1124	294	41	< LOD	515	< LOD	83	8658	650	< LOD	222	< LOD	110	< LOD	633			< LOD	810			114	64	< LOD	63	< LOD	29	< LOD	126	121	78				
4/12/2012 10:02	228	30	6424	221		3	1	4			159	67	< LOD	57	< LOD	43	219	102	< LOD	1177	303	41	< LOD	535	< LOD	86	10620	701	< LOD	224	< LOD	112	< LOD	685			1030	574			< LOD	95	< LOD	61	< LOD	32	< LOD	132	< LOD	120				
4/12/2012 11:06	232	30	6424	221		3	1	4			171	64	< LOD	54	< LOD	44	267	100	1943	793	454	47	< LOD	536	< LOD	85	10462	668	< LOD	214	< LOD	110	< LOD	663			< LOD	813			145	62	< LOD	61	< LOD	29	< LOD	125	273	78				
4/12/2012 11:10	233	30	6424	224		3	4	30			< LOD	744	< LOD	1676	< LOD	628	< LOD	9316	< LOD	9779	2615	20	< LOD	15222	15359	5666	< LOD	8129	< LOD	10492	16972	3875	2356	921			< LOD	5326			< LOD	641	< LOD	852	< LOD	1425	12858	2959	< LOD	1123				
4/12/2012 11:11	234	30	6424	224		3	4	30			551	81	< LOD	72	< LOD	43	1135	125	1206	741	201	33	< LOD	487	< LOD	82	9388	621	< LOD	209	< LOD	107	< LOD	622			< LOD	779			< LOD	86	< LOD	55	< LOD	27	< LOD	120	121	70				
4/12/2012 11:13	236	30	6424	224		3	4	4			184	60	< LOD	50	< LOD	42	< LOD	127	< LOD	1050	246	34	< LOD	473	< LOD	75	7757	567	< LOD	193	< LOD	102	< LOD	570			1068	513			< LOD	81	< LOD	55	< LOD	25	< LOD	115	< LOD	101				
4/12/2012 11:14	237	30	6424	224		3	4	4			174	57	< LOD	47	< LOD	40	< LOD	119	< LOD	988	221	32	< LOD	443	< LOD	71	6290	513	< LOD	184	< LOD	96	< LOD	529			756	470			107	55	< LOD	48	< LOD	25	< LOD	108	< LOD	95				
4/12/2012 11:15	238	30	6424	224		3	4	4			119	42	< LOD	35	< LOD	29	87	58	< LOD	698	105	21	< LOD	312	< LOD	49	4660	369	< LOD	128	< LOD	68	< LOD	378			526	333			< LOD	62	< LOD	33	< LOD	17	< LOD	78	117	48				
4/12/2012 11:16	239	30	6424	224		3	4	30			503	86	< LOD	76	< LOD	46	928	131	< LOD	1154	173	34	< LOD	558	< LOD	90	9890	690	< LOD	236	< LOD	114	< LOD	665			< LOD	834			< LOD	95	< LOD	59	< LOD	32	< LOD	128	< LOD	116				
4/12/2012 14:43	240	30	6424	159		3	2	30			232	66	< LOD	56	< LOD	47	< LOD	144	1975	822	408	45	< LOD	522	< LOD	78	9266	642	< LOD	220	< LOD	112	< LOD	647			< LOD	805			< LOD	84	< LOD	59	< LOD	26	< LOD	129	134	71				
4/12/2012 14:45	242	30	6424	159		3	2	30			215	74	< LOD	65	< LOD	51	273	115	< LOD	1349	377	48	< LOD	614	< LOD	89	10299	745	< LOD	245	< LOD	130	< LOD	765			< LOD	944			< LOD	98	< LOD	68	< LOD	31	< LOD	141	< LOD	124				
4/12/2012 14:49	243	30	6424	159		3	2	30			269	77	< LOD	66	< LOD	52	< LOD	161	< LOD	1254	251	40	< LOD	593	< LOD	94	10594	744	< LOD	247	< LOD	128	< LOD	740			< LOD	921			< LOD	99	< LOD	67	< LOD	32	< LOD	143	222	82				
4/12/2012 15:59	246	30	6424	159		3	2	30			184	74	< LOD	56	< LOD	45	213	103	2031	771	< LOD	16	< LOD	487	< LOD	85	3762	545	< LOD	227	< LOD	102	< LOD	582			< LOD	775			182	74	< LOD	59	< LOD	33	< LOD	115	< LOD	118				
4/12/2012 16:02	248	30	6424	159		3	2	30			158	68	< LOD	55	< LOD	45	172	96	1957	726	< LOD	19	< LOD	489	< LOD	80	3686	513	< LOD	216	< LOD	98	< LOD	484			< LOD	680			170	70	< LOD	54	< LOD	31	< LOD	109	178	75				
4/12/2012 16:31	249	30	6424	159		3	2	30			948	102	115	64	< LOD	50	239	103	< LOD	1109	436	47	< LOD	547	< LOD	91	19105	845	< LOD	229	< LOD	116	< LOD	747			< LOD	829			< LOD	92	< LOD	63	< LOD	27	< LOD	130	224	82				
4/12/2012 16:32	250	30	6424								< LOD	95	81	41	69	40	< LOD	201	< LOD	1404	336	45	2004	516	< LOD	102	12440	799	2670	259	< LOD	141	< LOD	830			< LOD	1023			< LOD	98	< LOD	82	< LOD	33	< LOD	160	< LOD	131				
4/12/2012 16:33	251	30	6424								263	66	< LOD	59	< LOD	43	812	115	< LOD	1015	< LOD	25	< LOD	503	< LOD	85	2506	447	< LOD	216	< LOD	106	< LOD	528			906	512			< LOD	83	< LOD	59	< LOD	26	< LOD	124	292	78				
4/12/2012 16:34	252	30	6424								< LOD	70	< LOD	39	< LOD	40	< LOD	114	< LOD	974	< LOD	16	< LOD	448	< LOD	67	< LOD	506	< LOD	186	< LOD	98	< LOD	460			< LOD	645			< LOD	74	< LOD	54	< LOD	21	< LOD	113	< LOD	97				
4/12/2012 16:35	253	30	6424								4817	224	641	142	< LOD	57	6283	277	< LOD	1293	351	47	< LOD	643	147	84	29596	1121	2790	262	< LOD	125	< LOD	921			8363	914			< LOD	103	< LOD	76	< LOD	41	< LOD	143	285	97				
4/12/2012 16:36	254	30	6424								377	79	< LOD	69	< LOD	46	249	110	< LOD	1245	324	42	< LOD	617	< LOD	93	32779	1081	< LOD	247	< LOD	123	< LOD	927			1318	633			98	63	< LOD	68	< LOD	29	< LOD	139	< LOD	120				

Lead Paint Mode

Date	Reading	LiveTime	Analyst	Loc_ID	Comment	Pb (mg_cm2)	Pb +/-
11-Apr-12	114	26.25	Wilder_5444	216	Foundation Paint, trim, concrete paint, sills	0.22	0.03
11-Apr-12	115	24.25	Wilder_5444	216	Foundation Paint, trim, concrete paint, sills	0	0
11-Apr-12	117	24.21	Wilder_5444	216	Foundation Paint, trim, concrete paint, sills	0.17	0.02
11-Apr-12	119	23.94	Wilder_5444	216	Foundation Paint, trim, concrete paint, sills	0.37	0.03
11-Apr-12	120	26.51	Wilder_5444	216	Foundation Paint, trim, concrete paint, sills	0	0
11-Apr-12	121	25.28	Wilder_5444	216	White Trim on Porch	2.61	0.19
11-Apr-12	122	24.31	Wilder_5444	216	Foundation Paint, trim, concrete paint, sills	0.13	0.01
11-Apr-12	123	25.84	Wilder_5444	216	White Trim on Porch	4.08	0.31
11-Apr-12	124	26.48	Wilder_5444	216	Foundation Paint, trim, concrete paint, sills	0.05	0.01
11-Apr-12	144	23.68	Wilder_5444	176	Window Sill	0	0
11-Apr-12	145	25.25	Wilder_5444	176	Window Sill	0	0
11-Apr-12	146	23.51	Wilder_5444	176	Window Sill	0	0
11-Apr-12	147	25.75	Wilder_5444	176	Window Sill	0	0
11-Apr-12	148	21.66	Wilder_5444	176	Window Sill	0	0
12-Apr-12	91	24.76	Wilder_5444	176	Window Sill	0	0
12-Apr-12	92	23.4	Wilder_5444	176	Tan Siding	2.81	0.15
12-Apr-12	93	24.42	Wilder_5444	176	Window Sill	0.02	0.01
12-Apr-12	94	23.93	Wilder_5444	176	Window Sill	0.02	0.01

Bagged Incremental Composite Samples

Date	Reading	LiveTime	Time	Pass Fail S	Analyst	SRM	LocID	SU	Replicate	Comment			Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	Mn	Mn +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-
10-May-12	2	36.91	13:08:16		stroh 5434	5861							54	5	54	6	96	24	134	11	645	53	165	102	1089	38	9	4	14810	198	3001	49	68	19	198	59	124	37	18	2	72	34	4	2	-29	32	122	4
10-May-12	3	30.2	13:11:40		stroh 5444	BLANK				no baggie			-4	2	4	1	26	17	3	3	9	26	0	0	-1	5	0	3	95	15	2	5	-29	12	-16	8	-18	13	0	1	-5	27	1	1	36	25	1	1
10-May-12	3	36.67	13:09:42		stroh 5434	Blank							-3	2	0	2	-23	19	7	3	-32	17	-139	52	-5	6	-5	2	20	14	-6	5	-64	16	-9	8	-16	13	0	1	-34	27	1	1	-120	25	0	1
10-May-12	4	30.88	13:13:48		stroh 5444	5861				no baggie			55	5	37	4	76	20	140	11	1026	78	0	0	940	32	6	4	13373	182	2812	47	76	15	64	51	115	35	21	2	65	33	3	1	115	30	110	3
10-May-12	4	36.53	13:11:14		stroh 5434	4315							256	9	18	8	-32	21	830	18	64	27	280	84	-2	8	-4	3	2672	66	97	9	48	17	13	24	585	39	8	1	-49	31	0	1	-96	29	292	5
10-May-12	5	37.51	13:13:05		stroh 5434	408							498	16	515	17	470	26	130	9	487	58	503	162	-40	17	397	16	44598	474	34	9	485	22	275	102	691	62	113	4	89	36	530	11	-41	34	166	4
10-May-12	5	31.47	13:16:16		stroh 5444	4315				no baggie			235	8	26	5	-18	18	782	18	-14	32	0	0	-5	6	-3	4	2329	61	79	8	-69	13	-52	20	640	40	10	1	39	28	-3	1	1	25	187	4
10-May-12	6	29.32	13:17:36		stroh 5444	408				no baggie			463	15	391	12	446	24	115	9	599	82	0	0	7	16	397	16	40599	440	17	8	389	18	95	91	609	59	124	4	79	35	487	10	140	32	155	4
10-May-12	6	36.11	13:15:35		stroh 5434	2711							5740	72	490	45	15	27	7200	94	-4	53	212	173	12	22	80	12	39603	481	2977	56	9	23	-48	105	10059	206	134	5	43	39	-2	4	-27	37	355	7
10-May-12	7	29.95	13:19:33		stroh 5444	408				no baggie			442	15	410	12	449	23	134	9	537	80	0	0	-15	16	414	17	41917	448	4	8	398	18	469	95	706	61	129	4	68	35	500	10	170	32	168	4
10-May-12	7	37.9	13:18:52		stroh 5434	2711							1236	22	38	18	43	24	322	13	40	37	376	127	6	15	13	5	25646	297	114	11	66	20	223	76	406	46	113	4	59	35	2	2	-54	33	257	5
10-May-12	8	36.85	13:28:46		stroh 5434	NA	120	1	1				895	18	-29	15	-28	23	699	19	-17	37	191	130	13	16	1	5	32605	355	97	10	-41	19	191	84	590	52	53	3	23	33	-1	2	-50	32	134	4
10-May-12	8	29.23	13:21:00		stroh 5444	408				no baggie			505	16	391	12	461	24	143	10	595	82	0	0	6	16	383	16	41581	451	3	8	383	18	128	93	702	61	116	4	175	36	491	10	186	33	155	4
10-May-12	9	37.49	13:30:06		stroh 5434	NA	120	1	1				861	19	-24	15	-25	24	651	19	29	39	-124	123	6	17	6	5	30310	354	82	10	-63	20	285	87	569	54	48	3	14	35	0	2	-109	33	121	4
10-May-12	9	30.26	13:29:26		stroh 5444	408	2711						1155	22	113	12	59	21	335	13	141	58	0	0	28	14	24	6	24724	292	109	11	38	15	117	71	478	48	119	4	-7	35	5	2	97	32	245	5
10-May-12	10	37.95	13:31:05		stroh 5434	NA	120	1	1				916	18	-43	15	-7	22	661	18	32	37	217	126	9	16	3	5	30141	329	88	10	-56	19	267	81	508	49	53	3	8	33	-1	2	-71	31	131	4
10-May-12	10	28.4	13:30:39		stroh 5444	2710							5692	72	641	32	58	24	7224	95	53	79	0	0	13	18	82	13	38655	471	3060	59	-18	18	-450	95	9664	200	139	5	30	39	-5	4	91	36	337	7
10-May-12	11	31.26	13:34:56		stroh 5444	NA	119	2					174	7	15	5	9	19	148	8	50	45	0	0	21	11	1	4	16883	202	28	7	-53	14	4	53	365	38	61	2	-28	30	0	1	50	27	128	3
10-May-12	11	36.91	13:33:15		stroh 5434	NA	120	1	2				962	19	-38	16	20	23	768	20	56	40	-94	126	0	17	5	5	33340	367	114	11	-27	19	408	88	547	52	56	3	-9	34	1	2	-73	32	146	4
10-May-12	12	30.26	13:36:00		stroh 5444	NA	119	2					170	7	14	5	22	19	156	9	55	45	0	0	16	11	1	4	16327	200	27	7	-21	14	86	54	330	38	63	3	-18	30	0	1	70	28	128	3
10-May-12	12	38.14	13:34:59		stroh 5434	NA	120	1	2				935	19	-20	15	-9	23	755	20	-11	37	137	129	-3	16	-1	5	32214	356	101	10	-44	19	364	86	472	50	53	3	9	33	0	2	-112	32	140	4
10-May-12	13	30.51	13:36:58		stroh 5444	NA	119	2					169	7	6	4	6	19	150	8	52	45	0	0	16	11	-1	4	16671	203	26	7	-58	14	82	54	347	38	63	3	-20	30	-2	1	56	27	125	3
10-May-12	13	36.78	13:36:00		stroh 5434	NA	120	1	2				940	19	-18	16	12	23	759	20	171	43	-190	118	-7	16	1	5	32968	361	109	11	-43	19	318	86	424	49	54	3	-24	33	-1	2	-81	32	141	4
10-May-12	14	30.86	13:38:24		stroh 5444	NA	119	1					408	11	6	7	-2	19	303	12	109	51	0	0	36	13	7	5	24578	272	46	8	-55	14	34	65	281	40	68	3	31	31	-1	1	95	28	131	4
10-May-12	14	37.83	13:37:26		stroh 5434	NA	120	1	3				782	16	-2	14	-56	22	620	17	37	37	162	124	-6	15	-4	4	30167	324	81	9	-64	18	350	80	546	49	57	3	1	32	2	2	-82	30	134	4
10-May-12	15	30.08	13:40:01		stroh 5444	NA	119	1					403	12	15	7	52	19	273	11	-18	48	0	0	3	12	0	4	24400	275	62	9	-37	14	187	67	313	41	70	3	37	32	0	1	58	29	144	4
10-May-12	15	37.89	13:38:26		stroh 5434	NA	120	1	3				824	17	-28	14	-61	22	661	18	4	37	582	137	17	16	5	5	30518	331	84	10	-72	19	306	81	554	50	52	2	23	32	-3	2	-78	31	131	4
10-May-12	16	30.06	13:43:07		stroh 5444	NA	119	1					406	12	20	7	74	19	274	11	-42	46	0	0	19	13	-8	4	24425	274	61	9	-30	14	100	66	271	40	69	3	29	31	-1	1	114	29	143	4
10-May-12	16	37.86	13:40:11		stroh 5434	NA	120	1	3				812	17	-17	14	-33	22	629	17	45	37	130	123	-35	14	-5	4	29570	323	85	9	-67	19	341	80	492	48	55	3	41	33	-2	2	-72	31	139	4
10-May-12	17	36.86	13:42:31		stroh 5434	NA	120	2	1				239	9	-18	8	-60	22	155	9	18	30	-115	99	-6	12	1	4	15584	196	37	7	-35	18	148	57	377	39	58	2	50	31	-2	1	-126	30	156	4
10-May-12	17	30.11	13:46:22		stroh 5444	NA	160	1	1				645	15	13	9	5	20	653	18	-2	49	0	0	40	14	0	5	23216	268	59	9	-38	15	150	66	450	45	53	3	32	32	3	2	36	29	307	6
10-May-12	18	36.78	13:43:52		stroh 5434	NA	120	2	1				208	8	4	7	-49	21	176	9	43	32	339	114	-12	12	4	4	15451	195	27	7	-21	18	280	58	352	39	58	2	14	32	-1	1	-86	30	154	4
10-May-12	18	30.55	13:47:59		stroh 5444	NA	160	1	1				634	15	16	9	41	20	607	17	48	51	0	0	4	12	-5	4	23394	274	74	9	-6	15	95	67	436	45	48	3	17	32	0	2	40	29	301	6
10-May-12	19	36.79	13:45:04		stroh 5434	NA	120	2	1				231	9	-12	7	-13	21	170	9	22	30	-73	99	-4	12	-3	3	16047	198	28	7	-37	18	130	57	405	40	63	3	0	31	-2	1	-95	29	155	4
10-May-12	19	30.5	13:49:05		stroh 5444	NA	160	1	1				637	15	16	9	23	20	675	18	79	53	0	0	-7	12	1	5	23334	272	71	9	-59	15	256	68	415	45	49	3	-31	32	-3	2	94	29	307	6
10-May-12	20	36.71	13:47:13		stroh 5434	NA	120	2	2				237	9	7	8	-3	21	175	9	45	31	114	105	1	12	-5	3	15420	193	27	7	-33	18	130	56	346	38	58	2	-24	31	0	1	-129	29	154	4
10-May-12	20	30.32	13:51:43		stroh 5444	NA	160	1	2				770	17	15	9	66	20	688	18	102	53	0	0	-3	13	1	5	23308	272	86	10	-43	15	308	69	477	46	49	3	41	32	-1	2	77	30	302	6
10-May-12	21	36.7	13:48:10		stroh 5434	NA	120	2	2				242	9	0	8	-9	22	164	9	34	31	129	107	1	12	3	4	15418	194	15	7	-17	18	220	57	368	39	63	3	26	32	-2	1	-164	30	161	4
10-May-12	21	29.99	13:58:08		stroh 5444	NA	160	1	2				731	16	1	9	12	20	744	19	198	57	0	0	26	13	5	5	23587	276	91	10	12	15	133	68	432	46	49	3	19	33	-2	2	109	30	305	6
10-May-12	22	37.91	13:49:42		stroh 5434	NA	120	2	2				253	9	-12	8	9	21	179	9	39	30	144	103	3	12	-5	3	14694	184	28	7	-32	18	208	54	443	40	59	2	18	31	0	1	-101	29	152	4
10-May-12	22	30.95	13:59:06		stroh 5444	NA	160	1	2				661	16	12	9	16	21	748	20	1	51	0	0	46	15	9	5	23391	280	92	10	-24	15	205	70	416	46	52	3	16	33	-1	2	99	30	303	6
10-May-12	23	36.84	13:52:38		stroh 5434	NA	120	2	3				251	9	-7	8	9	21	190	9	39	31	162	108	-11	11	-7	3	16606	204	17	7	-30	18	131	58	333	38	62	3	59	31	2	1	-95	30	161	4
10-May-12	23	30.21	14:00:39		stroh 5444	NA	160	1	3				669	15	6	9	21	20	716	19	67	52	0	0	32	13	11	5	23386	273	76	10	-34	15	43	66	464	46	52	3	0	33	1	2	99	30	278	5
10-May-12	24	36.91	13:53:53		stroh 5434	NA	120	2	3				268	9	-25	8	-42	22	194	9	18	30	61	105	5	12	-2	4	15543	197	25	7	-10	18	221	57	419	41	58	2	29	32	0	1	-127	30	156	4
10-May-12	24	30.45	14:03:24		stroh 5444	NA	160	1	3				614	15	7	8	22	20	718	19	96	53	0	0	15	13	4	5	23702	277	97	10	-15	15	225	69	399	45	50	3	-6	33	4	2	75	30	264	5
10-May-12	25	37.14	13:58:33		stroh 5434	NA	120	2	3				256	9	-20	8	-57	22	174	9	1	30	66	106	8	12	-7	3	15209	197	14	7	-69	18	146	57	413	41	59	3	-19	32	1	1	-113	30	155	4
10-May-12	25	30.54	14:06:48		stroh 5444	NA	160	1	3				680	16	-1	9	23	20	668	18	94	54	0	0	-3	12	-2	5	23846	281	85	10	-47	15	126	69	531	48	52	3	9	33	0	2	117	30	269	5
10-May-12	26	29.66	14:10:03		stroh 5444	NA	160	2	1				244	9	16	5	42	19	302	11	34	42	0	0	31	11	-4	4	14779	183	17	7	-49	14	20	49	367	37	64	3	29	30	1	1	84	27	130	3
10-May-12	26	37.99	14:17:33		stroh 5434	NA	175	1					140	7	-1	6	-34	21	158	8	55	32	68	107	3	12	0	4	17737	213	12	6	-61	18	188	60	422	41	66	3	24	31	-1	1	-116	30	124	3
10-May-12	27	29.82	14:12:20		stroh 5444	NA	160	2	1				258	9	9	5	-5	19	265	11	64	45	0	0	16	11	3	4	14851	186	39	7	-57	14	70	51	385	39	65	3	14	30	-1	1	91	27	128	3
10-May-12	27	38.13	14:18:33		stroh 5434	NA	175	1					153	7	-5	6	-35	21	155	8	26	31	125	111	3	13	-4	3	17982	216	16	7	-68	18	250	61	482	43	70	3	93	31	-1	1	-89	30	126	3
10-May-12	28	30.79	14:15:01		stroh 5444	NA	160	2	1				270	9	14	5	49	19	293	11	45	44	0	0	25	11	1	4	15321	188	38	7	-16	14	-9	50	444	40	67	3	-54	30	0	1	68	27	133	3
10-May-12	28	38.14	14:20:05		stroh 5434	NA	175	1					144	7	-2	6	-51	21	154	8	-6	30	97	111	-16	12	-3	3	18463	220	34	7	-25	18	186	61	584	45	68	3	-28	31	0	1	-85	30	125	3
10-May-12	29	30.41	14:16:03		stroh 5444	NA	160	2	2				258	9	10	5	23	19	288	11	17	42	0	0	10	10	4	4	14915	189	27	7	-48	14	29	51	374	38	62	3	8	30	0	1	82	28	127	4

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

In-Situ XRF Data

Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment		Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
10-May-12	29	38.34	14:21:20		stroh 5434	NA	175	2					136	7	-3	6	-47	22	157	9	-11	30	381	117	-12	11	-8	3	15760	199	25	7	-72	18	132	57	584	45	63	3	38	31	-1	1	-136	30	122	3						
10-May-12	30	29.86	14:17:12		stroh 5444	NA	160	2	2				265	9	13	5	5	19	272	11	77	45	0	0	23	11	-4	4	14846	185	28	7	-55	14	79	51	403	39	65	3	-17	30	-1	1	55	27	134	4						
10-May-12	30	37.9	14:22:29		stroh 5434	NA	175	2					130	7	2	6	-67	21	164	8	38	30	24	100	4	11	-1	3	15057	185	19	7	-51	17	120	53	488	41	63	2	-9	30	0	1	-118	28	120	3						
10-May-12	31	30.74	14:18:11		stroh 5444	NA	160	2	2				259	9	12	5	34	19	322	12	59	43	0	0	29	11	4	4	15371	188	36	7	-39	14	75	51	369	38	70	3	36	30	-1	1	42	27	125	3						
10-May-12	31	37.98	14:23:59		stroh 5434	NA	175	2					136	7	-5	6	-44	21	158	8	-14	28	-59	100	-2	12	0	4	15021	189	18	7	-32	18	166	55	593	44	64	3	11	31	-1	1	-134	29	116	3						
10-May-12	32	30.11	14:19:35		stroh 5444	NA	160	2	3				281	9	10	6	26	19	281	11	56	44	0	0	22	10	6	4	15192	191	33	7	-57	14	-62	50	388	39	67	3	-5	30	-2	1	107	28	127	3						
10-May-12	32	37	14:51:47		stroh 5434	Blank		2					-2	2	-3	2	-15	19	5	3	-48	17	-53	57	-3	6	-7	2	16	14	-14	4	-20	16	-5	8	-30	13	2	1	38	28	2	1	-128	26	4	1						
10-May-12	33	30.79	14:20:40		stroh 5444	NA	160	2	3				279	10	17	6	3	20	297	12	26	45	0	0	20	11	-5	4	15493	198	42	8	-50	14	52	53	495	43	70	3	16	31	-2	1	66	28	128	4						
10-May-12	33	37.22	14:52:47		stroh 5434	5861		2					61	5	49	6	48	24	149	11	629	53	-6	98	1061	37	4	4	14697	199	2695	46	72	19	170	59	164	38	20	2	39	35	3	2	-111	33	124	4						
10-May-12	34	29.93	14:21:52		stroh 5444	NA	160	2	3				277	9	10	6	42	19	295	11	-19	41	0	0	42	11	-1	4	14505	184	31	7	-48	14	-8	50	419	39	61	3	-37	31	-1	1	99	28	128	3						
10-May-12	34	36.79	14:54:59		stroh 5434	4315		2					287	9	-8	8	5	21	846	19	3	25	247	85	-12	8	-2	4	2672	68	99	9	77	18	-5	24	584	40	11	1	12	32	-1	1	-153	30	289	5						
10-May-12	35	30.32	14:28:40		stroh 5444	NA	160	Y1	1	EPA Method			431	12	13	7	-5	20	425	14	65	48	0	0	38	12	7	5	18577	226	55	8	-34	14	-81	57	434	43	68	3	17	32	-3	1	122	29	194	4						
10-May-12	35	37.87	14:56:25		stroh 5434	408							505	16	539	18	458	27	149	10	557	61	617	165	-24	18	388	16	44666	481	4	8	478	23	270	103	639	62	120	4	79	36	523	11	-55	34	174	5						
10-May-12	36	30.13	14:29:42		stroh 5444	NA	160	Y1	1	EPA Method			426	12	17	7	3	20	416	14	-29	45	0	0	21	12	1	4	18240	223	48	8	-12	14	108	58	488	44	62	3	-45	32	0	1	71	29	192	4						
10-May-12	36	37.01	14:57:39		stroh 5434	2711							1227	23	52	19	-16	25	332	13	3	37	322	135	-17	15	16	6	26337	313	99	11	75	20	204	79	444	49	113	4	6	36	4	2	-144	34	265	6						
10-May-12	37	30.1	14:31:44		stroh 5444	NA	160	Y1	1	EPA Method			440	12	16	7	38	20	372	13	33	47	0	0	14	12	7	5	18292	224	62	9	-31	14	136	59	427	42	66	3	4	32	-3	1	126	29	190	4						
10-May-12	37	36.27	14:58:54		stroh 5434	2710							5766	73	522	46	42	27	7098	93	-38	52	219	173	-49	20	47	11	38766	475	2961	56	21	23	-45	105	10343	210	136	5	5	40	6	4	-110	38	355	7						
10-May-12	38	31.15	14:34:04		stroh 5444	NA	160	Y1	2	EPA Method			373	11	11	6	23	20	506	15	25	46	0	0	33	12	3	4	17586	215	65	9	4	14	101	57	411	41	63	3	-10	32	-3	1	112	29	203	4						
10-May-12	39	30.15	14:36:56		stroh 5444	NA	160	Y1	2	EPA Method			360	11	8	6	3	20	443	14	68	48	0	0	29	12	4	4	17143	213	36	8	-7	14	109	57	467	43	59	3	-13	32	2	2	91	29	204	5						
10-May-12	40	30.06	14:41:30		stroh 5444	NA	160	Y1	2	EPA Method			352	11	9	6	13	20	449	14	15	46	0	0	33	12	2	4	17445	215	44	8	-27	14	-23	56	468	43	56	3	-15	32	-1	1	96	29	214	5						
10-May-12	41	29.89	14:43:34		stroh 5444	NA	160	Y1	3	EPA Method			432	12	12	7	20	20	559	16	72	49	0	0	39	12	6	5	19005	230	59	9	-14	14	-47	58	374	41	67	3	-2	32	-1	1	104	29	174	4						
10-May-12	42	30.19	14:45:32		stroh 5444	NA	160	Y1	3	EPA Method			399	11	20	7	3	20	520	16	34	47	0	0	27	12	3	4	19232	232	44	8	-7	14	18	59	453	43	65	3	33	32	-2	1	87	29	169	4						
10-May-12	43	29.91	14:46:49		stroh 5444	NA	160	Y1	3	EPA Method			414	12	13	7	18	19	516	15	64	48	0	0	20	12	20	5	18213	220	57	8	-45	14	79	57	464	43	61	3	-24	31	-1	1	66	28	174	4						
10-May-12	44	29.71	14:48:08		stroh 5444	NA	160	Y2	1	EPA Method			213	8	12	5	25	20	254	11	3	44	0	0	54	12	8	4	15474	196	31	7	-15	14	2	52	362	39	63	3	31	32	0	1	87	29	142	4						
10-May-12	45	29.9	14:49:05		stroh 5444	NA	160	Y2	1	EPA Method			217	8	8	5	18	20	242	11	60	46	0	0	26	11	4	4	15545	196	35	8	3	14	10	52	383	40	65	3	-20	31	-2	1	64	29	143	4						
10-May-12	46	29.96	14:50:12		stroh 5444	NA	160	Y2	1	EPA Method			217	8	16	5	-1	20	241	11	-24	43	0	0	37	12	7	4	15656	199	25	7	19	14	-27	52	377	40	65	3	-19	32	0	1	97	29	140	4						
10-May-12	47	29.75	14:51:38		stroh 5444	NA	160	Y2	2	EPA Method			226	9	3	5	21	20	271	11	48	47	0	0	28	11	3	4	16927	209	23	7	-9	14	-61	54	332	39	75	3	9	32	-2	1	128	29	142	4						
10-May-12	48	29.91	14:52:43		stroh 5444	NA	160	Y2	2	EPA Method			220	9	13	5	52	20	245	11	101	48	0	0	28	11	3	4	17092	212	24	7	-4	14	-71	54	325	39	73	3	-78	32	0	1	145	30	152	4						
10-May-12	49	29.96	14:53:42		stroh 5444	NA	160	Y2	2	EPA Method			209	8	20	5	-14	20	239	11	32	46	0	0	53	12	-1	4	17292	214	35	8	12	14	-134	54	311	38	72	3	-33	32	2	1	102	30	144	4						
10-May-12	50	31.62	14:54:54		stroh 5444	NA	160	Y2	3	EPA Method			509	13	16	8	17	20	413	14	59	50	0	0	31	12	7	5	19933	242	61	9	0	15	-21	60	363	42	55	3	29	33	-1	2	107	30	218	5						
10-May-12	51	30.28	14:55:51		stroh 5444	NA	160	Y2	3	EPA Method			499	13	-8	8	34	21	387	14	79	52	0	0	58	13	9	5	20121	246	70	9	14	15	-204	59	426	44	62	3	-39	33	0	2	111	30	221	5						
10-May-12	52	30.98	14:56:48		stroh 5444	NA	160	Y2	3	EPA Method			540	14	11	8	-24	21	402	14	-8	47	0	0	65	14	5	5	20824	250	50	9	24	15	-45	62	426	44	67	3	-77	33	-1	2	123	30	234	5						
10-May-12	53	30.98	14:58:34		stroh 5444	BLANK							-1	2	2	1	3	18	9	3	8	27	0	0	2	6	0	3	101	16	-4	4	21	13	-2	9	-1	15	1	1	-28	28	2	1	92	26	3	1						
10-May-12	54	30.75	14:59:33		stroh 5444	5861							48	5	52	4	59	21	107	11	1110	82	0	0	944	33	5	4	14432	196	3383	54	84	15	126	54	113	37	20	2	-10	35	7	2	180	32	113	4						
10-May-12	55	32.05	15:00:49		stroh 5444	4315							236	8	8	5	-9	18	795	18	38	33	0	0	6	7	1	4	2086	57	92	9	-32	13	-20	20	385	32	10	1	0	28	0	1	51	26	175	4						
10-May-12	56	29.33	15:01:52		stroh 5444	408							497	16	388	13	424	25	148	10	639	88	0	0	28	17	423	17	44448	489	19	9	446	19	-78	97	764	65	134	4	73	38	488	11	240	34	153	4						
10-May-12	57	30.23	15:03:03		stroh 5444	2711							1165	22	92	13	31	22	349	14	115	58	0	0	84	16	21	6	25141	300	115	11	43	16	11	71	487	49	121	4	18	36	5	2	151	32	238	5						
10-May-12	58	29.23	15:04:30		stroh 5444	2710							5822	73	592	32	48	24	7376	96	-18	79	0	0	70	20	68	13	39022	476	3060	59	-7	18	-463	96	9953	204	137	5	-31	40	-2	4	203	36	321	7						
10-May-12	59	28.43	15:06:00		stroh 5444	2710							5825	75	675	33	-8	25	7558	101	34	83	0	0	49	20	113	15	40304	501	3296	63	16	19	-290	101	10105	212	152	5	-18	42	1	5	192	38	340	7						
11-May-12	2	31.79	9:38:21		Patrick_5444	5861							46	5	39	4	74	20	145	11	956	74	0	0	942	31	3	4	13012	175	2744	46	16	14	102	50	182	36	18	2	15	32	3	1	65	29	120	3						
11-May-12	2	37	9:36:17		stroh 5434	5861							52	5	55	6	66	24	136	11	588	52	-38	95	1119	38	0	4	15044	202	2642	46	129	20	86	58	164	38	20	2	23	35	5	2	-60	33	120	4						
11-May-12	3	37.62	9:38:53		stroh 5434	4315							253	9	11	8	17	21	828	18	13	25	150	79	9	9	-4	3	2483	64	110	9	48	17	35	24	631	40	10	1	-37	31	0	1	-39	29	294	5						
11-May-12	3	30.6	9:39:41		Patrick_5444	4315							265	9	17	5	-5	18	822	18	52	35	0	0	-3	7	-1	4	2498	63	99	9	-41	13	-38	21	411	34	9	1	31	28	-2	1	30	26	246	5						
11-May-12	4	157.68	9:40:29		Patrick_5444	4315							NA		NA		NA		NA		34	4	365	20	NA		NA		2716	25	NA		NA		NA		483	9	NA		NA		NA		NA		NA							
11-May-12	4	36.83	9:41:26		stroh 5434	2711							1196	22	49	18	44	24	311	13	27	37	199	126	-25	14	17	6	25366	301	97	10	79	20	224	77	416	47	107	4	0	35	4	2	-77	33	255	5						
11-May-12	5	31.84	9:44:37		Patrick_5444	4315							224	8	10	5	19	17	738	17	-8	31	0	0	-2	6	2	4	2110	56	70	8	-63	13	-27	19	354	31	10	1	22	27	0	1	49	25	176	4						
11-May-12	5	36.57	9:46:44		stroh 5434	4315							279	9	-1	8	-54	21	799	18	2	25	237	84	14	9	1	4	2797	69	112	9	41	17	13	25	688	42	10	1	20	31	0	1	-112	29	293	5						
11-May-12	6	158.73	9:45:25		Patrick_5444	4315							NA		NA		NA		NA		34	4	326	19	NA		NA		2285	22	NA		NA		NA		456	9	NA		NA		NA		NA		NA							
11-May-12	6	37.99	9:50:36		stroh 5434	Blank							2	3	-2	2	-38	19	3	3	-31	18	-86	55	-9	6	-2	3	-8	13	-7	5	-36	16	-5	8	1	14	2	1	-27	27	1	1	-142	25	4	1						
11-May-12	7	30.12	9:51:23		Patrick_5444	BLANK							-3	2	0	1	8	17	7	3	23	28	0	0	-10	5	-2	3	100	15	0	5	-10	12	5	9	-7	14	-2	1	38	27	0	1	59	25	2	1						
11-May-12	7	36.23	9:52:32		stroh 5434	2710							5764	72	495	45	-59	27	7080	92	-30	51	-27	166	-50	20	48	11	38258	468	3000	56	35	23	28	104	9711	201	124	4	36	40	0	4	-78	37	340	7						
11-May-12	8	38.19	9:56:53		stroh 5434	NA	159	1	none				484	13	-15	11	-22	22	434	14	-1	32	272	116	-3	13	2	4	18216	223	51	8	15	19	179	62	433	43	62	3	45	33	1	2	-111	31	232	5						
11-May-12	8	163.64	9:52:11		Patrick_5444	BLANK							NA		NA		NA		NA		-10	3	-21	10	NA		NA		66	7	NA		NA		NA		-11	4	NA		NA		NA		NA		NA							
11-May-12	9	37.17	9:59:20		stroh 5434	NA	159	1	none	run2			490	13	-33	11	-18	23	416	14	49	34	98	115	-4	13	0	4	17817	228	46	8	-3	19	94	63	381	43	58	3	1	34	2	2	-60	32	234	5						
11-May-12	9	28.29	10:03:33		Patrick_5444	2710							5564	71	613	31	0	24	7167	94	39	77	0	0	44	19	72	13	37452	459	3033	58	-37	18	-294	95	9358	196	145	5	67	39	2	4	136	36	338	7						
11-May-12	10	37.99	10:02:33		stroh 5434	NA	159	1	none	run3			487	13	-37	11	-50	22	413	14	4	32	121	113	8	13	1	4	18345	226	47	8	5	19	140	62	415	42	54	2	-16	33	1	2	-162	31	238	5						
11-May-12	10	30.17	10:05:51		Patrick_5444	408							452	15	410	12	415	24	130	9	650	83	0	0	1	15	421	17	42889	456	11	8	408	18	24	92	662	60	125	4	71	35	493	10	142	32	151	4						
11-May-12	11	37.96	10:07:42		stroh 5434	NA	159	2	none	run1			178	8	-4	7	-30	21	180	9	-58	27	219	107	3	12	2	4	15775	195	17	7	-7	18	206	57	386	39	61	2	41	31	-1	1	-105	29	120	3						
11-May-12	11	30.88	10:08:25		Patrick_5444	2711							1151	21	102	12	49	21	319	13	2	52	0	0	48	14	26	6	24878	289	98	10	37	15	61	69	419	46	116	4	-62	34	2	2	120	31	250	5						
11-May-12	12	37.87	10:09:26		stroh 5434	NA	159	2	none	run2			179	8	-4	7	-27	21	173	9	24	30	202	105	18	12	-1	3	15902	194	20	7	-45	18	50	55	345	38	63	2	8	31	0	1	-141	29	127	3						
11-May-12	12	30.16	10:14:08		Patrick_5444	NA	163	Y1	1	run1			111	6	7	4	41	19	128	8	91	45	0	0	20	11	-6	3	14226	178	18	7	3	14	71	49	623	44	68	3	-4	30	-2	1	65	28	108	3						
11-May-12	13	37.93	10:12:27		stroh 5434	NA	159	2	none	run3			185	8	13	7	-5	21	188	9	8	30	277	109	16	12	4	4	15992	195	27	7	-19	18	163	56	388	39	63	2	32	31	0	1	-84	29	123	3						
11-May-12	13	29.55	10:18:27		Patrick_5444	NA	163	Y1	1	run2			104	6	10	4	-33	19	118	8	49	44	0	0	15	11	6	4	14817	186	16	7	-17	14	57	51	474	41	75	3	0	31	0	1	49	28	108	3						
11-May-12	14	29.04	10:19:51		Patrick_5444	NA	163	Y1	1	run3			119	6	8	4	37	19	138	8	49	44	0	0	39	11	1	4	14526	182	23	7	8	14	24	49	681	45	70	3	43	31	-1	1	69	28	107	3						
11-May-12	14	37.08	10:17:20		stroh 5434	NA	215	1	none	run1			348	11	-11	9	-61	21	215	10	-1	31	136	112	-14	13	-1	4	20345	237	39	8	-75	18	322	66	343	40	57	2	-26	31	0	1	-102	29	127	4						
11-May-12	15	30.17	10:22:01		Patrick_5444	NA	163	Y1	2	run1			118	6	12	4	24	18	96	7	15	41	0	0	8	10	7	4	12913	168	11	6	-64	13	42	47	538	41	62	3	1	29	-2	1	55	27	96	3						
11-May-12	15	37.1	10:18:54		stroh 5434	NA	215	1	none	run2			362	11	4	9	-36	21	247	11	34	33	120	112	18	14	1	4	20960	243	23	7	-115	18	196	66	408	42	58	2	47	30	0	1	-103	29	135	4						
11-May-12	16	30.82	10:28:18		Patrick_5444	NA	163	Y1	2	run2			129	6	7	4	24	18	113	7	51	42	0	0	4	10	1	4	13671	171	11	6	-75	13	98	48	656	44	65	3	26	29	0	1	58	26	97	3						
11-May-12	16	37.92	10:20:22		stroh 5434	NA	215	1	none	run3			339	10	-1	9	-44	21	215	10	50	32	20	104	16	13	0	4	20367	231	38	7	-96	17	194	63	335	39	61	2	15	30	2	1	-131	29	133	4						
11-May-12	17	29.38	10:30:30		Patrick_5444	NA	163	Y1	2	run3			130	6	5	4	36	18	113	7	-7	40	0	0	21	10	7	4	13860	173	21	7	-58	13	7	47	664	44	64	2	14	29	-3	1	52	27	94	3						
11-May-12	17	38.3	10:29:29		stroh 5434	NA	215	2	none	run1			217	8	-3	7	-51	21	158	8	-1	29	60	103	-8	11	-4	3	15229	191	20	7	-69	18	193	56	329	37	62	2	24	30	1	1	-165	29	115	3						
11-May-12	18	29.42	10:32:39		Patrick_5444	NA	163	Y1	3	run1			136	7	6	4	29	19	115	8	24	44	0	0	6	10	2	4	14915	187	107	10	-26	14	92	51	652	45	75	3	27	31	1	1	77	28	105	3						
11-May-12	18	36.97	10:31:12		stroh 5434	NA	215	2	none	run2			221	8	1	7	-51	21	175	9	48	31	39	103	-1	11	-1	4	14869	187	23	7	-58	18	153	55	323	37	61	2	-44	30	-1	1	-155	29	122	3						
11-May-12	19	29.82	10:34:32		Patrick_5444	NA	163	Y1	3	run2			138	7	5	4	44	19	118	8	56	44	0	0	13	10	11	4	15847	192	90	9	13	14	29	51	580	43	75	3	-48	30	1	1	88	28	105	3						
11-May-12	19	37.6	10:33:07		stroh 5434	NA	215	2	none	run3			211	8	-10	7	19	20	173	8	19	28	177	100	22	11	3	4	14625	176	26	7	-74	17	49	51	327	35	63	2	11	29	1	1	-118	28	120	3						
11-May-12	20	36.95	10:43:06		stroh 5434	NA	121	2					248	9	15	8	-53	20	169	9	-56	24	68	98	-8	10	-3	3	11355	154	21	7	-117	17	126	47	557	41	63	2	0	29	0	1	-82	28	127	3						
11-May-12	20	29.3	10:36:11		Patrick_5444	NA	163	Y1	3	run3			136	7	7	4	18	19	113	7	21	43	0	0	36	11	2	4	14638	183	89	9	-5	14	-65	49	644	44	71	3	9	30	-2	1	81	28	105	3						
11-May-12	21	36.74	10:45:30		stroh 5434	NA	121	2					252	9	-1	8	-30	21	162	8	-14	26	73	98	-6	10	5	4	10705	148	26	7	-65	17	170	47	421	37	57	2	2	30	-1	1	-126	28	122	3						
11-May-12	21	29.69	10:38:41		Patrick_5444	NA	163	Y2	1	run1			91	6	9	4	0	19	107	7	19	44	0	0	15	11	0	4	14978	187	22	7	-7	14	99	51	471	41	73	3	38	31	0	1	78	28	101	3						
11-May-12	22	36.9	10:46:59		stroh 5434	NA	121	2					259	9	0	8	-21	21	161	8	49	29	130	101	-11	10	-3	3	10637	148	35	7	-76	17	157	46	451	39	60	2	-6	30	0	1	-173	28	120	3						
11-May-12	22	29.06	10:40:01		Patrick_5444	NA	163	Y2	1	run1			105	6	5	4	2	19	119	8	79	45	0	0	4	10	1	4	15438	191	3	6	11	14	41	51	444	40	71	3	-32	31	2	1	93	28	103	3						
11-May-12	23	30.27	10:41:50		Patrick_5444	NA	163	Y2	1	run3			97	6	6	4	2	19	115	7	64	44	0	0	13	11	3	4	15658	191	20	7	29	14	87	52	476	41	78	3	21	31	-1	1	87	28	108	3						
11-May-12	23	36.59	10:49:49		stroh 5434	NA	221	2	1	run1			123	6	9	6	-23	21	220	10	11	29	186	106	-4	12	-3	3	14553	184	17	7	-5	18	222	55	530	42	62	2	33	31	2	1	-114	29	136	4						
11-May-12	24	29.33	10:44:39		Patrick_5444	NA	163	Y2	2	run1			110	6	7	4	41	19	138	8	13	41	0	0	27	11	10	4	12890	168	20	7	-14	14	26	47	599	43	74	3	-66	31	-2	1	25	28	107	3						
11-May-12	24	36.78	10:51:28		stroh 5434	NA	221	2	1	run2			121	6	-2	6	-13	21	209	10	-1	29	66	100	-3	11	-3	3	14317	183	21	7	-30	18	177	54	495	41	62	2	41	31	-1	1	-131	29	132	4						
11-May-12	25	30.6	10:46:18		Patrick_5444	NA	163	Y2	2	run2			103	6	8	4	-8	18	129	8	0	41	0	0	14	10	-3	3	12862	166	24	7	-18	14	-3	46	494	40	66	3	-18	29	-1	1	36	27	109	3						
11-May-12	25	37.4	10:52:38		stroh 5434	NA	221	2	1	run3			126	7	-3	6	-55	22	211	10	18	31	213	110	-7	12	3	4	14143	188	20	7	-64	18	257	57	401	40	59	3	7	32	-2	1	-105	30	131	4						
11-May-12	26	29.61	10:47:51		Patrick_5444	NA	163	Y2	2	run3			104	6	10	4	13	18	120	7	39	41	0	0	17	10	11	4	12501	163	20	7	-50	13	27	46	527	41	68	3	31	30	-2	1	28	27	101	3						
11-May-12	26	36.72	10:54:33		stroh 5434	NA	221	2	2	run1			130	7	-4	6	12	21	188	9	-30	27	95	101	11	12	-2	3	14457	181	24	7	-20	18	119	53	539	42	60	2	20	31	-1	1	-70	29	141	4						
11-May-12	27	29.68	10:50:52		Patrick_5444	NA	163	Y2	3	run1			139	7	6	4	37	19	196	9	18	43	0	0	2	10	6	4	13458	174	14	6	-32	14	84	49	573	43	68	3	-47	30	1	1	74	28	108	3						
11-May-12	27	36.54	10:57:05		stroh 5434	NA	221	2	2	run2			124	6	1	6	-9	21	186	9	34	30	55	101	-31	11	0	3	14805	185	24	7	-25	18	308	56	517	42	63	2	90	31	2	1	-121	29	140	4						
11-May-12	28	30.39	10:52:15		Patrick_5444	NA	163	Y2	3	run2			133	7	5	4	42	19	189	9	-12	40	0	0	22	10	7	4	13619	173	12	6	-19	14	48	48	426	38	71	3	-3	30	0	1	77	27	97	3						
11-May-12	28	36.95	10:58:26		stroh 5434	NA	221	2	2	run3			114	6	-3	6	-30	21	179	9	-45	27	272	110	7	12	-3	3	14207	184	32	7	-45	18	118	54	470	41	54	2	10	31	-1	1	-152	30	141	4						
11-May-12	29	30.3	10:53:30		Patrick_5444	NA	163	Y2	3	run3			132	7	10	4	18	19	197	9	32	43	0	0	23	11	-2	4	13949	177	20	7	0	14	90	49	560	42	76	3	-45	30	-3	1	66	28	104	3						
11-May-12	29	37.01	11:00:09		stroh 5434	NA	221	2	3	run1			174	8	0	7	-44	21	327	12	27	31	207	110	13	12	6	4	15117	192	19	7	-57	18	97	55	491	42	63	3	-27	31	1	1	-111	29	132	4						
11-May-12	30	30.01	10:56:42		Patrick_5444	NA	163	1	e845	bag marked e845 run1			73	5	3	3	25	19	156	9	35	43	0	0	18	11	8	4	13418	176	15	7	19	14	97	49	611	44	70	3	14	31	-1	1	53	28	103	3						
11-May-12	30	36.57	11:02:40		stroh 5434	NA	221	2	3	run2			187	8	-17	6	-12	21	355	12	-17	28	336	109	16	12	1	4	15673	189	32	7	-24	17	194	55	486	41	64	2	6	30	-1	1	-90	29	142	4						
11-May-12	31	29.93	10:57:57		Patrick_5444	NA	163	1	e845	bag marked e845 run2			74	5	7	3	4	19	174	9	67	45	0	0	22	11	1	4	13752	179	35	7	-5	14	52	49	550	43	64	3	28	31	-2	1	69	28	105	3						
11-May-12	31	36.88	11:04:11		stroh 5434	NA	221	2	3	run3			161	7	2	6	15	21	321	12	37	30	-51	101	-1	11	1	4	14870	188	16	7	-69	18	91	54	447	40	60	2	43	31	0	1	-90	29	130	4						
11-May-12	32	30.55	10:59:12		Patrick_5444	NA	163	1	e845	bag marked e845 run3			73	5	11	3	38	19	158	8	11	42	0	0	14	10	1	4	13587	174	22	7	-15	14	17	48	660	45	66	3	-21	31	1	1	122	28	99	3						
11-May-12	32	38.03	11:10:05		stroh 5434	NA	221	2	3	run3			176	7	-11	6	1	21	341	12	-28	28	196	106	8	12	1	4	14987	186	22	7	-37	17	118	54	480	41	59	2	-23	30	-2	1	-122	29	137	4						
11-May-12	33	29.57	11:02:07		Patrick_5444	NA	163	1	2	run1			87	6	9	3	35	19	194	9	103	45	0	0	10	10	1	4	13761	179	15	7	18	14	21	49	554	43	72	3	-9	31	0	1	59	29	105	3						
11-May-12	33	36.84	11:10:56		stroh 5434	NA	221	2	3	run3			173	8	-10	7	-18	22	367	13	-23	29	212	110	3	12	-2	4	15176	193	27	7	-37	18	119	55	538	43	59	2	17	31	3	1	-149	30	138	4						
11-May-12	34	30.74	11:03:27		Patrick_5444	NA	163	1	2	run2			91	6	6	3	20	19	182	9	43	43	0	0	12	10	-1	4	13898	177	8	6	-19	14	26	49	697	46	71	3	27	31	0	1	84	28	104	3						
11-May-12	34	36.81	11:11:45		stroh 5434	NA	221	2	3	run3			182	8	-8	7	-45	21	336	12	47	31	-21	101	4	12	1	4	15061	190	34	7	-51	18	108	55	428	40	61	2	-60	31	-2	1	-143	29	137	4						
11-May-12	35	29.59	11:04:52		Patrick_5444	NA	163	1	2	run3			91	6	8	4	29	19	188	9	31	44	0	0	17	11	-3	4	14485	184	10	6	8	14	86	51	666	46	77	3	-24	31	-2	1	18	28	111	3						
11-May-12	35	37.99	11:12:36		stroh 5434	NA	221	2	3	run3			170	7	3	6	-25	21	336	12	1	28	71	100	12	12	-1	3	15043	186	26	7	-69	17	140	54	467	40	61	2	10	30	-1	1	-73	29	136	3						
11-May-12	36	29.36	11:16:53		Patrick_5444	NA	163	1	3	run1			84	6	6	3	-9	19	169	9	93	45	0	0	18	10	5	4	13802	178	19	7	13	14	-21	48	566	43	69	3	-25	31	1	1	84	29	101	3						
11-May-12	36	36.88	11:13:26		stroh 5434	NA	221	2	3	run3			175	8	1	7	-68	21	362	12	-51	27	216	107	10	12	1	4	14907	189	29	7	-22	18	146	55	465	41	65	3	42	31	-3	1	-128	29	143	4						
11-May-12	37	30.49	11:18:40		Patrick_5444	NA	163	1	3	run2			84	6	10	3	-29	19	193	9	42	44	0	0	24	11	-4	4	14222	180	31	7	11	14	-16	49	644	45	66	3	29	31	0	1	95	28	104	3						
11-May-12	37	37.85	11:14:16		stroh 5434	NA	221	2	3	run3			167	7	11	7	-42	21	334	12	55	31	94	104	-5	11	-5	3	14988	188	40	7	-30	18	175	55	418	40	60	2	9	31	0	1	-87	29	142	4						
11-May-12	38	29.88	11:22:41		Patrick_5444	NA	163	1	3	run3			91	6	7	4	30	19	182	9	74	46	0	0	34	11	1	4	14425	185	17	7	-5	14	21	50	636	45	70	3	-12	31	1	1	67	28	105	3						
11-May-12	38	36.8	11:15:06		stroh 5434	NA	221	2	3	run3			171	7	-8	6	-15	21	325	12	3	29	257	108	16	12	-3	3	14522	184	27	7	-53	18	141	54	488	41	61	2	44	31	-1	1	-88	29	136	4						
11-May-12	39	29.91	11:25:21		Patrick_5444	NA	163	1	3	Precision Check (PC)			91	6	5	3	17	19	183	9	11	43	0	0	37	11	8	4	14314	184	21	7	-36	14	14	50	531	43	74	3	-21	31	-1	1	56	28	102	3						
11-May-12	39	38.03	11:22:11		stroh 5434	NA	180	2	e1200	bag marked e1200 run1			102	6	-1	5	-42	20	80	6	8	27	43	96	3	11	-4	3	11446	154	6	6	-76	17	231	48	606	42	59	2	18	30	1	1	-141	28	113	3						
11-May-12	40	29.92	11:26:18		Patrick_5444	NA	163	1	3	Precision Check (PC)			91	6	6	3	0	19	190	9	45	44	0	0	40	11	0	4	14175	182	21	7	-16	14	-43	49	543	43	67	3	-13	31	-1	1	35	28	106	3						
11-May-12	40	36.92	11:23:27		stroh 5434	NA	180	2	e1200	bag marked e1200 run2			100	6	1	5	-28	21	78	6	9	28	18	101	4	11	-5	3	11537	158	11	6	-57	18	142	48	590	43	64	3	-37	30	0	1	-113	29	114	3						
11-May-12	41	30.71	11:27:08		Patrick_5444	NA	163	1	3	Precision Check (PC)			94	6	2	3	25	19	181	9	41	43	0	0	26	11	-3	4	14440	183	18	7	4	14	-4	49	603	44	71	3	-28	31	-3	1	97	28	106	3						
11-May-12	41	36.83	11:25:47		stroh 5434	NA	180	2	e1200	bag marked e1200 run3			109	6	-2	5	-50	20	70	6	-13	26	15	94	-10	10	4	4	11161	151	12	6	-80	17	117	46	478	39	64	2	9	30	-2	1	-151	28	116	3						
11-May-12	42	30.75	11:27:58		Patrick_5444	NA	163	1	3	Precision Check (PC)			84	6	5	3	44	19	187	9	36	43	0	0	23	11	-1	4	14532	185	16	7	29	14	54	50	621	44	70	3	14	31	1	1	108	29	110	3						
11-May-12	42	36.53	11:28:23		stroh 5434	NA	179	2		run1			165	7	-8	6	-2	21	188	9	14	28	99	102	10	11	3	4	13442	172	24	7	-46	17	103	51	445	39	56	2	-46	31	-1	1	-122	29	122	3						
11-May-12	43	29.86	11:28:48		Patrick_5444	NA	163	1	3	Precision Check (PC)			75	5	13	3	-15	19	195	9	-87	39	0	0	19	10	-5	3	14081	181	13	6	-6	14	-41	49	684	46	69	3	-53	31	1	1	45	28	106	3						
11-May-12	43	36.86	11:29:46		stroh 5434	NA	179	2		run2			168	7	0	6	-21	21	193	9	36	30	57	100	-16	10	0	4	13634	176	9	6	-71	17	112	52	463	40	58	2	-2	31	-3	1	-112	29	118	3						
11-May-12	44	30.8	11:29:38		Patrick_5444	NA	163	1	3	Precision Check (PC)			85	6	7	3	24	19	187	9	-4	42	0	0	19	10	-5	3	14142	180	25	7	5	14	0	49	682	45	74	3	5	31	0	1	42	28	103	3						
11-May-12	44	36.55	11:31:16		stroh 5434	NA	179	2		run3			170	7	2	7	-42	21	195	9	1	28	64	102	-13	11	1	4	13473	174	31	7	-6	18	175	52	504	41	61	2	40	31	1	1	-170	29	123	3						
11-May-12	45	29.86	11:30:28		Patrick_5444	NA	163	1	3	Precision Check (PC)			91	6	5	3	6	20	176	9	65	46	0	0	21	11	6	4	14052	183	24	7	7	14	9	50	611	45	74	3	-7	32	-3	1	99	29	110	3						
11-May-12	45	38.08	11:34:35		stroh 5434	NA	218	2		run1			181	8	-16	6	3	21	125	8	2	28	152	105	-3	10	5	4	11973	160	11	6	-66	17	74	48	542	41	59	2	28	30	0	1	-119	29	106	3						
11-May-12	46	30.05	11:31:19		Patrick_5444	NA	163	1	3	Precision Check (PC)			78	5	15	4	47	20	179	9	57	45	0	0	26	11	4	4	14183	184	13	7	1	14	62	50	715	47	71	3	22	32	2	1	86	29	112	3						
11-May-12	46	36.94	11:36:02		stroh 5434	NA	218	2		run2			171	8	-1	7	-28	21	144	8	-23	27	170	105	9	11	-4	3	12282	167	19	7	-15	18	37	49	507	41	60	2	19	31	1	1	-176	29	121	3						
11-May-12	47	36.77	11:37:36		stroh 5434	NA	218	2		run3			173	7	2	7	-31	21	143	8	23	29	38	100	8	11	-1	3	12274	165	24	7	-57	18	137	50	518	41	60	2	38	31	-1	1	-111	29	113	3						
11-May-12	47	31.03	11:35:37		Patrick_5444	4315							234	8	3	5	42	18	781	18	21	33	0	0	-1	6	0	4	2227	59	82	8	-58	13	-39	20	435	34	8	1	43	28	3	1	13	25	159	4						
11-May-12	48	36.82	11:39:34		stroh 5434	NA	222	2		run1			89	6	-3	5	-58	21	81	6	-43	25	67	99	1	11	2	4	10001	143	10	6	-8	18	183	46	502	39	61	2	48	31	1	1	-84	29	131	3						
11-May-12	48	30.78	11:37:06		Patrick_5444	2711							1128	21	107	12	51	21	325	13	40	54	0	0	27	14	22	6	25086	293	106	11	45	15	66	70	390	45	123	4	-19	35	0	2	106	31	239	5						
11-May-12	49	36.48	11:40:54		stroh 5434	NA	222	2		run2			93	6	2	5	-64	21	89	6	-7	26	84	96	-1	10	1	3	10777	148	11	6	-35	17	53	45	534	40	60	2	-1	30	1	1	-115	29	126	3						
11-May-12	49	29.02	11:38:24		Patrick_5444	408							467	16	431	13	398	24	128	10	588	84	0	0	50	17	421	17	42582	465	24	9	395	18	-9	94	571	59	129	4	116	36	481	10	265	33	160	4						
11-May-12	50	36.82	11:42:12		stroh 5434	NA	222	2		run3			98	6	-6	5	-34	21	65	6	-1	27	0	97	14	11	-1	3	10345	147	17	7	-42	18	106	46	534	41	58	2	42	31	2	1	-120	29	122	3						
11-May-12	50	28.9	11:40:09		Patrick_5444	2710							5682	72	622	32	9	24	7156	94	61	80	0	0	83	21	93	14	38668	472	3162	60	4	18	-247	97	9336	197	146	5	70	40	-2	4	148	36	342	7						
11-May-12	51	31.55	11:41:27		Patrick_5444	5861							48	5	41	4	70	20	125	11	876	73	0	0	1050	33	3	4	13435	182	2912	48	67	15	28	50	65	33	21	2	40	33	3	1	94	30	106	3						
11-May-12	51	37.91	11:48:17		stroh 5434	Blank							-2	2	-2	2	-51	19	9	3	-50	17	-108	55	13	7	3	3	2	14	-9	5	-20	16	-4	8	3	15	1	1	49	28	-1	1	-94	26	4	1						
11-May-12	52	29.95	11:42:54		Patrick_5444	BLANK							1	2	0	1	29	18	3	3	79	31	0	0	-4	5	4	3	117	16	8	5	14	13	-10	8	-8	15	1	1	-13	28	0	1	44	26	-1	1						
11-May-12	52	36.36	11:49:30		stroh 5434	2710							5700	72	468	45	-77	27	7047	93	-78	50	192	172	-17	21	69	12	38313	471	2870	55	11	23	36	105	9902	204	129	5	123	40	3	4	9	38	353	7						
11-May-12	53	30.77	11:46:11		Patrick_5444	NA	163	2	1	run1			136	6	10	4	-15	18	161	8	114	45	0	0	19	10	4	4	13496	170	13	6	-59	13	18	47	564	42	68	3	-22	29	-1	1	40	27	102	3						
11-May-12	53	36.79	11:51:04		stroh 5434	4315							279	9	2	8	-28	21	780	18	19	25	74	79	-11	8	-3	4	2693	68	103	9	54	18	-12	24	665	42	9	1	-8	32	1	1	-98	30	288	5						
11-May-12	54	29.98	11:47:24		Patrick_5444	NA	163	2	1	run2			129	6	9	4	42	19	144	8	14	42	0	0	21	10	0	4	13507	174	12	6	-51	14	-58	47	645	44	69	3	-25	29	-2	1	18	27	98	3						
11-May-12	54	37.11	11:52:32		stroh 5434	2711							1181	22	44	18	29	24	328	13	-4	35	-27	119	-31	14	7	5	24995	299	95	10	72	20	307	78	482	49	115	4	57	36	4	2	-94	33	258	5						
11-May-12	55	30.91	11:48:56		Patrick_5444	NA	163	2	1	run3			130	6	9	4	6	18	152	8	1	40	0	0	37	11	3	4	13654	171	19	6	-79	13	-32	46	645	43	64	2	59	28	-1	1	106	26	99	3						
11-May-12	55	37.22	11:53:45		stroh 5434	5861							52	5	50	6	81	24	121	11	694	55	16	100	992	37	1	4	14352	196	2641	46	76	20	275	59	119	37	21	2	34	35	3	2	-81	33	130	4						
11-May-12	56	36.85	11:57:32		stroh 5434	NA	157	2		run1			99	6	2	5	-45	21	91	7	1	27	-88	93	-16	10	2	4	11792	160	17	6	-63	17	194	50	463	39	64	3	22	31	1	1	-131	29	115	3						
11-May-12	56	30.17	11:50:40		Patrick_5444	NA	163	2	2	run1			140	7	12	4	12	18	134	8	75	44	0	0	17	10	7	4	14174	175	34	7	-9	13	-5	47	608	43	70	3	-19	29	-2	1	106	27	102	3						
11-May-12	57	37.7	11:58:49		stroh 5434	NA	157	2		run2			99	6	-3	5	-20	21	86	6	-25	26	375	109	-11	10	-6	3	11688	154	14	6	-9	17	242	48	553	41	61	2	21	30	-2	1	-139	28	118	3						
11-May-12	57	30.77	11:51:56		Patrick_5444	NA	163	2	2	run2			136	7	6	4	44	18	146	8	8	41	0	0	34	11	2	4	14024	177	30	7	-37	14	-55	47	627	43	68	3	10	30	-1	1	17	27	100	3						
11-May-12	58	37.93	12:00:30		stroh 5434	NA	157	2		run3			93	6	2	5	-51	20	82	6	-4	27	63	98	-12	10	-2	3	11792	156	18	6	-59	17	208	48	518	40	63	2	11	30	0	1	-113	28	116	3						
11-May-12	58	30.27	11:53:19		Patrick_5444	NA	163	2	2	run3			129	6	8	4	7	18	139	8	-9	39	0	0	27	10	3	4	13758	172	19	6	-41	13	-35	46	582	42	68	3	-21	29	0	1	54	27	105	3						
11-May-12	59	37.94	12:02:30		stroh 5434	NA	158	2		run1			163	7	2	6	-29	20	161	8	29	27	-177	89	-10	10	-5	3	11569	154	13	6	-82	17	191	48	578	41	61	2	28	30	1	1	-147	28	115	3						
11-May-12	59	29.78	11:54:59		Patrick_5444	NA	163	2	3	run1			126	6	13	4	-2	18	162	8	51	42	0	0	39	11	0	4	13060	168	30	7	-69	13	-39	46	597	42	65	3	11	29	-1	1	57	27	93	3						
11-May-12	60	37.71	12:03:58		stroh 5434	NA	158	2		run2			167	7	2	6	-57	21	152	8	7	28	243	103	-11	11	-3	3	12177	159	19	6	-42	17	228	49	587	42	63	2	6	29	1	1	-129	28	111	3						
11-May-12	60	29.93	11:58:17		Patrick_5444	NA	163	2	3	run2			131	6	9	4	-1	18	157	8	-17	40	0	0	23	10	5	4	13190	170	16	6	-53	14	-28	46	634	43	62	3	-72	29	-1	1	11	27	98	3						
11-May-12	61	36.95	12:05:09		stroh 5434	NA	158	2		run3			146	7	13	6	-35	21	163	9	-1	28	118	102	1	11	-4	3	11717	160	14	6	-72	18	152	49	550	42	62	2	2	30	1	1	-157	29	110	3						
11-May-12	61	30.63	11:59:38		Patrick_5444	NA	163	2	3	run3			124	6	9	4	23	18	154	8	10	39	0	0	16	10	-6	3	13064	164	20	6	-61	13	12	45	646	43	63	2	24	29	-1	1	52	26	98	3						
11-May-12	62	36.96	12:07:05		stroh 5434	NA	161	2		run1			78	5	4	5	-30	21	118	7	27	30	106	103	-17	11	-2	3	14482	183	51	8	-88	17	140	54	458	40	62	2	66	30	2	1	-158	29	127	3						

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

In-Situ XRF Data

Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment		Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
11-May-12	62	28.32	12:01:16		Patrick_5444	2710							5632	72	644	32	50	24	7382	97	-4	78	0	0	77	20	88	14	39540	485	3120	60	-37	18	-374	98	9699	203	143	5	-63	40	-7	4	121	37	317	7						
11-May-12	63	36.97	12:09:30		stroh 5434	NA	161	2		run2			86	6	2	5	-46	21	122	7	19	29	192	104	6	11	3	4	14746	184	49	8	-86	17	57	53	580	43	61	2	-7	30	-1	1	-93	28	120	3						
11-May-12	63	29.75	12:03:21		Patrick_5444	2711							1188	22	89	13	65	22	356	14	-7	54	0	0	26	14	7	6	25049	299	89	10	68	16	105	72	435	48	110	4	65	36	3	2	146	33	257	5						
11-May-12	64	36.84	12:11:25		stroh 5434	NA	161	2		run3			94	6	-3	5	-44	21	110	7	-34	28	260	110	-1	11	6	4	14770	186	61	8	-46	18	112	54	576	43	64	3	31	31	1	1	-116	29	132	4						
11-May-12	64	29.5	12:04:30		Patrick_5444	408							503	16	402	13	471	25	145	10	643	86	0	0	26	16	414	17	42810	470	-8	7	446	18	-63	95	680	62	123	4	176	37	491	11	224	34	151	4						
11-May-12	65	37.93	12:13:16		stroh 5434	NA	164	2		run1			115	6	5	6	-75	21	134	8	16	29	135	103	12	12	9	4	16205	195	21	7	-68	17	156	56	430	40	64	2	-25	30	0	1	-143	29	126	3						
11-May-12	65	30.9	12:05:42		Patrick_5444	4315							234	8	17	5	1	18	715	17	47	34	0	0	-2	7	2	4	2266	59	79	8	-41	13	-12	20	265	29	9	1	-3	28	-1	1	8	26	185	4						
11-May-12	66	36.92	12:15:17		stroh 5434	NA	164	2		run2			119	6	-11	6	-30	22	139	8	60	32	202	110	-1	12	1	4	16386	203	15	7	-32	18	116	57	452	42	66	3	38	32	-1	1	-105	30	126	3						
11-May-12	66	30.8	12:07:34		Patrick_5444	5861							48	5	37	4	72	21	124	11	995	79	0	0	980	33	2	4	13513	186	3081	51	65	15	160	53	157	37	24	2	-33	35	3	1	51	31	110	3						
11-May-12	67	36.94	12:16:49		stroh 5434	NA	164	2		run3			121	6	-4	6	-49	21	131	8	-17	29	137	106	5	12	1	4	16335	200	9	6	-73	18	215	58	362	38	67	3	-28	31	0	1	-161	29	119	3						
11-May-12	67	29.96	12:08:47		Patrick_5444	BLANK							3	2	0	1	-10	18	0	3	23	28	0	0	-1	5	2	3	128	17	-6	4	20	13	-16	8	-4	15	-1	1	-2	28	0	1	68	25	2	1						
11-May-12	68	36.79	12:18:43		stroh 5434	NA	224	2		run1			128	7	8	6	-25	22	164	9	-6	29	186	110	-5	12	-5	3	15987	198	19	7	-28	18	145	57	373	39	62	3	16	32	4	2	-104	30	120	3						
11-May-12	69	36.82	12:20:28		stroh 5434	NA	224	2		run2			151	7	-4	6	-55	22	171	9	-20	29	142	111	26	13	0	4	16038	201	23	7	-18	18	66	57	511	43	66	3	16	32	-1	1	-84	30	121	3						
11-May-12	70	38.01	12:21:56		stroh 5434	NA	224	2		run3			141	7	2	6	-14	21	158	8	19	30	84	103	-4	11	1	4	15690	193	21	7	-56	18	137	55	434	40	66	3	30	31	-1	1	-175	29	125	3						
11-May-12	71	37.54	12:24:26		stroh 5434	NA	City Street Sweepings			City Street Sweepings run1			182	8	-1	7	-80	23	255	11	20	32	-22	103	-24	11	0	4	14760	202	24	7	-16	19	154	59	305	39	43	2	-10	34	1	1	-122	32	279	6						
11-May-12	72	37.54	12:26:42		stroh 5434	NA	City Street Sweepings			City Street Sweepings run2			182	8	-2	7	-9	24	269	12	8	32	24	107	-15	12	6	4	14968	206	40	8	5	20	203	60	335	41	44	2	3	34	-2	1	-78	32	285	6						
11-May-12	73	38.65	12:28:25		stroh 5434	NA	City Street Sweepings			City Street Sweepings run3			190	8	-13	7	-23	23	278	12	6	31	24	108	1	12	-4	4	14951	203	27	8	-12	19	114	59	330	40	39	2	37	33	0	1	-125	32	282	6						
11-May-12	74	38.2	12:32:09		stroh 5434	2711							1175	22	51	18	-2	24	317	13	78	40	422	132	-21	14	5	5	25033	299	98	10	61	20	209	77	459	49	106	4	70	36	-2	2	-162	33	261	5						
11-May-12	75	37.44	12:33:41		stroh 5434	2710							5830	73	516	45	3	26	7113	92	-62	50	93	169	-28	20	61	11	38954	472	2981	56	14	23	27	105	9993	203	131	5	91	39	-2	4	-87	37	361	7						
11-May-12	76	37.96	12:35:15		stroh 5434	4315							271	9	-7	8	-72	21	784	18	77	27	109	76	14	9	-1	4	2319	62	107	9	45	17	31	23	501	37	12	1	71	31	1	1	-104	29	305	5						
11-May-12	77	38.57	12:36:23		stroh 5434	5861							42	5	51	5	32	23	134	11	626	52	-142	90	1037	36	-3	4	14852	197	2509	43	84	19	230	58	166	37	22	2	17	34	1	1	-134	32	117	3						
11-May-12	78	37.91	12:37:35		stroh 5434	408							517	16	531	18	420	27	155	10	515	60	391	158	-21	18	375	15	45426	489	13	8	501	23	271	105	613	61	116	4	146	37	516	11	-114	35	165	4						
11-May-12	79	37.23	12:38:46		stroh 5434	Blank							-1	2	-1	2	-37	19	-1	3	-21	19	-106	54	-15	6	-4	3	-10	13	-7	5	-3	16	-12	8	-36	13	2	1	21	28	1	1	-117	26	3	1						
21-May-12	2	30.82	10:38:51		Patrick_5444	BLANK							4	2	-1	1	4	17	8	3	-17	25	0	0	8	6	-2	3	93	15	-9	4	-8	12	-2	8	-19	13	2	1	-21	27	1	1	27	25	2	1						
21-May-12	3	30.02	10:40:14		Patrick_5444	408							496	16	397	12	425	23	138	9	856	87	0	0	-20	15	391	16	42208	448	0	7	416	18	300	93	635	59	118	4	59	35	508	10	119	32	161	4						
21-May-12	4	31.58	10:43:28		Patrick_5444	5861							42	5	42	4	53	20	138	11	823	71	0	0	959	32	0	4	13048	178	3027	49	45	15	60	50	174	36	23	2	7	33	5	1	17	30	109	3						
21-May-12	5	31.84	10:45:18		Patrick_5444	4315							220	8	26	5	2	18	749	17	30	33	0	0	0	7	1	4	2432	62	91	9	-54	13	-12	21	541	37	12	1	46	28	-1	1	10	25	185	4						
21-May-12	6	53.43	10:49:15	PASS																																																		
21-May-12	7	31.48	10:51:11		Patrick_5444	5861							45	5	50	4	82	20	134	11	813	71	0	0	1007	33	2	4	13070	178	2769	46	62	15	78	50	172	36	19	2	0	33	3	1	49	30	111	3						
21-May-12	8	31.8	10:53:17		Patrick_5444	4315							224	8	16	5	24	18	757	17	63	35	0	0	1	7	-2	4	2409	61	98	9	-58	13	-11	21	350	31	9	1	-8	28	-1	1	-12	25	164	4						
21-May-12	9	53.71	10:57:53	PASS																																																	
21-May-12	10	30.99	11:01:54		Patrick_5444	BLANK							4	2	-1	1	16	17	8	3	-6	26	0	0	1	5	-2	3	105	15	-4	4	-2	12	-14	8	1	14	-1	1	10	27	0	1	24	24	-1	1						
21-May-12	11	29.18	11:03:55		Patrick_5444	408							493	16	404	12	438	24	129	9	692	84	0	0	-18	15	396	16	41500	448	20	8	361	18	215	93	579	58	121	4	72	35	475	10	155	32	155	4						
21-May-12	12	31.5	11:06:31		Patrick_5444	5861							51	5	34	4	80	20	127	11	957	74	0	0	890	31	5	4	13733	183	3183	50	48	15	81	51	105	34	20	2	18	33	2	1	88	30	104	3						
21-May-12	13	31.8	11:08:58		Patrick_5444	4315							252	8	9	5	10	17	803	18	-3	31	0	0	-9	6	2	4	2470	62	88	8	-60	13	-12	21	548	36	11	1	37	27	0	1	48	25	213	4						
21-May-12	14	30.81	11:10:43		Patrick_5444	2711							1149	21	107	12	15	21	325	13	61	54	0	0	5	13	21	6	24876	289	95	10	28	15	85	69	436	46	115	4	-16	34	5	2	124	31	239	5						
21-May-12	15	29.18	11:11:49		Patrick_5444	2710							5573	70	604	31	70	23	7094	92	-53	74	0	0	21	18	89	13	37932	458	3170	59	-34	18	-237	95	9659	197	125	5	24	39	-2	4	94	35	327	7						
21-May-12	16	29.14	11:14:35		Patrick_5444	2710							5652	71	600	31	80	24	7246	94	14	76	0	0	64	20	71	13	37870	457	3005	57	-11	18	-185	95	9605	197	137	5	87	39	-2	4	158	35	334	7						
21-May-12	17	28.35	11:15:47		Patrick_5444	2710							5693	72	614	32	43	24	7275	95	43	78	0	0	18	18	84	13	38054	466	2976	58	-19	18	-235	96	9760	202	140	5	16	39	-12	4	116	36	334	7						
21-May-12	18	30.4	11:18:14		Patrick_5444	NA	174	3					1007	18	8	10	24	19	811	19	45	46	0	0	20	11	3	5	15731	197	57	9	-20	14	74	53	767	49	68	3	18	31	-4	2	122	28	122	3						
21-May-12	19	29.63	11:19:44		Patrick_5444	NA	174	3					936	18	19	10	36	19	798	19	97	46	0	0	30	11	6	5	15006	189	40	8	-43	14	51	51	730	48	61	3	10	31	0	2	67	28	118	3						
21-May-12	20	30.01	11:21:19		Patrick_5444	NA	174	3					913	17	18	10	59	19	794	19	32	44	0	0	23	11	9	5	15291	190	46	8	-32	14	110	52	643	45	67	3	2	30	-1	2	43	28	122	3						
21-May-12	21	30.3	11:23:28		Patrick_5444	NA	174	2					301	10	12	6	17	19	297	11	-40	40	0	0	13	11	9	4	14090	178	16	7	-22	14	123	50	604	43	71	3	11	30	-2	1	62	28	112	3						
21-May-12	22	30.09	11:24:41		Patrick_5444	NA	174	2					309	10	1	6	53	19	336	12	-6	41	0	0	21	11	2	4	14054	177	19	7	-22	14	92	49	614	44	75	3	69	30	0	1	95	28	111	3						
21-May-12	23	30.08	11:26:15		Patrick_5444	NA	174	2					304	9	9	6	22	18	309	11	24	43	0	0	5	10	1	4	14328	178	20	7	-26	14	71	49	569	42	70	3	-64	30	-2	1	39	27	108	3						
21-May-12	24	29.47	11:28:10		Patrick_5444	NA	174	1					324	10	17	6	21	19	334	12	12	42	0	0	24	11	-1	4	14028	180	36	7	-43	14	24	49	568	43	68	3	43	30	1	1	62	27	108	3						
21-May-12	25	30.29	11:29:24		Patrick_5444	NA	174	1					361	10	2	6	26	19	347	12	62	45	0	0	23	11	0	4	14812	184	27	7	-13	14	16	50	639	45	72	3	-33	30	0	1	25	27	106	3						
21-May-12	26	30.01	11:30:31		Patrick_5444	NA	174	1					358	10	12	6	70	19	361	12	30	44	0	0	5	10	0	4	14559	181	38	7	-6	14	61	50	678	45	75	3	-21	30	-2	1	82	28	116	3						
21-May-12	27	30.27	11:36:20		Patrick_5444	NA	301			sunset park			84	5	8	3	48	18	77	6	37	40	0	0	13	9	-5	3	10966	146	10	6	-59	13	55	42	384	36	66	2	-38	29	1	1	59	26	109	3						
21-May-12	28	30.45	11:38:06		Patrick_5444	NA	301			sunset park			90	5	5	3	49	18	69	6	-5	38	0	0	18	10	0	4	11199	148	11	6	-41	13	63	43	275	33	58	2	-30	29	-1	1	93	26	109	3						
21-May-12	29	30.22	11:39:30		Patrick_5444	NA	301			sunset park			94	6	7	3	37	18	73	6	-5	38	0	0	20	10	1	4	11122	148	21	6	-51	13	77	43	379	35	67	3	-33	29	-3	1	61	26	109	3						
21-May-12	30	29.06	11:43:39		Patrick_5444	NA	302			billy porter			54	5	3	3	8	18	52	5	4	40	0	0	9	10	-1	4	12283	160	8	6	-46	13	100	46	534	41	64	2	-28	29	-2	1	108	27	99	3						
21-May-12	31	30.15	11:44:50		Patrick_5444	NA	302			billy porter			48	4	9	3	26	18	59	6	52	41	0	0	26	10	3	4	12340	160	5	6	-15	13	50	45	472	39	72	3	-18	29	-1	1	63	27	98	3						
21-May-12	32	29.59	11:46:00		Patrick_5444	NA	302			billy porter			47	4	6	3	10	19	74	6	55	43	0	0	29	11	4	4	12717	166	15	6	-36	14	38	47	483	40	66	3	107	30	0	1	10	27	95	3						
21-May-12	33	29.6	11:48:35		Patrick_5444	NA	176	4		billy porter			283	9	14	6	1	19	203	10	7	42	0	0	23	11	-1	4	14657	186	44	8	-13	14	25	50	216	34	65	3	-12	31	0	1	77	28	123	3						
21-May-12	34	30.15	11:49:45		Patrick_5444	NA	176	4		billy porter			296	9	14	6	65	19	194	9	74	45	0	0	10	10	6	4	14742	183	48	8	-31	14	71	50	265	35	64	3	18	31	0	1	51	28	127	3						
21-May-12	35	30.44	11:51:13		Patrick_5444	NA	176	4		billy porter			322	10	8	6	3	19	219	10	24	42	0	0	3	10	5	4	14824	185	45	8	-12	14	104	51	204	33	67	3	10	31	0	1	66	28	121	3						
21-May-12	36	30.3	11:54:17		Patrick_5444	NA	103	2	3				363	10	9	6	10	19	342	12	5	41	0	0	11	10	10	5	15677	192	94	9	-33	14	22	51	422	39	64	3	-21	30	1	1	50	28	110	3						
21-May-12	37	30.14	11:55:53		Patrick_5444	NA	103	2	3				362	11	0	6	11	19	324	12	3	42	0	0	44	11	0	4	14965	187	77	9	3	14	-42	50	463	41	67	3	7	31	-1	1	145	28	106	3						
21-May-12	38	29.39	11:59:14		Patrick_5444	NA	103	2	3				355	11	13	6	47	19	342	12	49	46	0	0	32	11	5	4	15641	194	76	9	-32	14	-35	51	538	43	66	3	-14	31	-3	1	47	28	110	3						
21-May-12	39	29.69	12:01:50		Patrick_5444	NA	300			west city park			36	4	9	3	30	19	77	6	107	43	0	0	12	10	4	4	10854	150	20	7	-26	14	100	44	379	37	69	3	-5	30	3	1	52	28	104	3						
21-May-12	40	30.44	12:03:03		Patrick_5444	NA	300			west city park			40	4	4	3	62	19	82	6	-3	38	0	0	15	10	12	4	11344	152	10	6	0	14	47	43	430	37	67	3	23	30	-2	1	76	27	103	3						
21-May-12	41	30.9	12:04:26		Patrick_5444	NA	300			west city park			51	5	1	3	47	18	85	6	-20	37	0	0	10	9	-4	3	10944	148	12	6	-40	13	23	42	411	37	66	3	-45	30	0	1	46	27	102	3						
21-May-12	42	31.84	12:08:34		Patrick_5444	4315							237	8	14	5	-7	18	787	18	7	33	0	0	3	7	1	4	2557	63	87	8	-34	13	-30	21	499	36	11	1	16	28	0	1	79	25	195	4						
21-May-12	43	30.78	12:10:06		Patrick_5444	2711							1199	22	90	12	66	21	370	14	96	57	0	0	42	14	25	6	25352	296	91	10	43	15	53	70	476	48	126	4	30	35	2	2	142	32	246	5						
21-May-12	44	53.48	13:12:32	PASS																																																	
21-May-12	45	29.04	13:14:20		Patrick_5444	2710							5746	72	639	32	125	24	7314	95	-99	72	0	0	-5	18	62	13	38106	462	3050	58	-56	18	-162	96	9595	198	147	5	79	39	-1	4	237	35	341	7						
21-May-12	46	29.98	13:15:44		Patrick_5444	408							488	16	413	12	536	24	151	10	834	88	0	0	-27	16	416	17	42386	454	9	8	415	18	373	95	612	59	122	4	49	35	497	10	218	32	156	4						
21-May-12	47	30.58	13:17:38		Patrick_5444	NA	105	Y2	3				695	15	20	9	83	19	549	16	9	46	0	0	-3	12	12	5	20817	241	86	9	-23	14	176	62	573	46	62	3	38	31	0	2	94	28	129	4						
21-May-12	48	30.56	13:18:48		Patrick_5444	NA	105	Y2	3				682	15	29	9	68	19	544	16	28	47	0	0	22	12	4	5	19738	232	70	9	-22	14	173	60	503	44	62	3	-36	31	0	2	118	28	136	4						
21-May-12	49	30.45	13:20:05		Patrick_5444	NA	105	Y2	3				744	16	16	9	24	19	560	16	125	52	0	0	1	12	7	5	21176	244	74	9	-54	14	153	62	475	44	62	3	-5	31	1	2	108	28	137	4						
21-May-12	50	30.58	13:23:28		Patrick_5444	NA	105	Y2	3	precision check			700	15	20	9	65	19	600	17	62	49	0	0	-10	12	0	5	20782	242	90	10	-12	14	284	63	498	44	61	3	-22	31	2	2	172	29	136	4						
21-May-12	51	30.59	13:24:18		Patrick_5444	NA	105	Y2	3	precision check			697	15	29	9	17	19	570	16	89	49	0	0	33	12	6	5	21350	247	81	9	-32	14	18	61	503	45	64	3	8	31	-5	1	103	28	126	4						
21-May-12	52	30.77	13:25:08		Patrick_5444	NA	105	Y2	3	precision check			671	15	48	9	73	19	534	16	57	49	0	0	9	12	15	5	20855	241	98	10	-38	14	175	62	412	42	65	3	38	31	2	2	124	28	130	4						
21-May-12	53	30.78	13:25:58		Patrick_5444	NA	105	Y2	3	precision check			694	15	22	9	80	19	586	16	66	50	0	0	12	12	3	5	20880	242	95	10	-48	14	171	62	511	45	62	3	19	31	0	2	129	28	138	4						
21-May-12	54	30.04	13:26:48		Patrick_5444	NA	105	Y2	3	precision check			717	16	27	9	93	20	578	17	-24	47	0	0	25	13	12	5	21621	252	80	9	-39	14	149	64	412	43	63	3	-9	32	0	2	144	29	130	4						
21-May-12	55	30.7	13:27:38		Patrick_5444	NA	105	Y2	3	precision check			687	15	20	9	48	19	560	16	8	46	0	0	0	12	3	5	20615	238	79	9	-63	14	241	62	419	42	55	2	-14	31	-1	2	102	28	131	4						
21-May-12	56	30.77	13:28:28		Patrick_5444	NA	105	Y2	3	precision check			712	15	21	9	57	19	586	16	7	47	0	0	4	12	2	5	21656	250	83	9	-11	14	149	63	467	44	62	3	-51	31	0	2	133	29	132	4						
21-May-12	57	30.47	13:35:25		Patrick_5444	NA	105	Y1	2				624	14	26	8	71	19	482	15	77	49	0	0	6	12	7	5	22121	249	66	9	-32	14	201	63	379	41	62	3	12	31	1	2	135	28	126	3						
21-May-12	58	29.69	13:37:15		Patrick_5444	NA	105	Y1	2				560	14	16	8	39	19	442	14	52	48	0	0	33	12	6	5	21275	246	44	8	-44	14	48	61	308	40	66	3	-13	31	1	2	151	28	128	4						
21-May-12	59	29.89	13:38:36		Patrick_5444	NA	105	Y1	2				585	14	23	8	70	19	459	15	49	49	0	0	13	12	2	4	21182	246	53	8	-42	14	135	62	418	43	65	3	16	31	-2	1	191	28	124	4						
21-May-12	60	30.12	13:41:41		Patrick_5444	NA	105	Y1	3				504	13	17	7	59	19	374	13	109	49	0	0	-6	11	6	5	19277	225	61	8	-21	14	124	58	430	42	67	3	17	31	2	2	155	28	128	3						
21-May-12	61	30.61	13:43:23		Patrick_5444	NA	105	Y1	3				519	13	21	8	42	19	432	14	-52	44	0	0	5	11	-5	4	20899	241	42	8	-20	14	72	61	433	42	64	3	-13	31	-1	1	112	29	123	3						
21-May-12	62	30.75	13:45:18		Patrick_5444	NA	105	Y1	3				529	13	16	8	24	19	425	14	29	47	0	0	14	12	1	4	20588	238	66	9	-43	14	49	60	451	43	65	3	6	31	-2	1	90	28	130	4						
21-May-12	63	30.58	13:47:15		Patrick_5444	NA	105	Y1	1				563	13	15	8	54	19	483	15	-4	45	0	0	5	11	5	5	20709	237	46	8	-39	14	119	60	375	40	63	3	-2	30	-1	1	105	28	130	4						
21-May-12	64	30.39	13:48:39		Patrick_5444	NA	105	Y1	1				570	13	19	8	62	19	504	15	-50	43	0	0	14	12	-5	4	20694	234	61	8	-75	14	110	59	294	38	64	3	-1	30	-1	1	137	27	127	3						
21-May-12	65	29.65	13:50:03		Patrick_5444	NA	105	Y1	1				551	13	23	8	70	19	477	15	10	46	0	0	1	12	4	5	20885	241	74	9	-62	14	241	62	386	41	61	3	-29	30	-2	1	106	28	133	4						
21-May-12	66	30.56	13:52:08		Patrick_5444	NA	105	Y2	1				524	13	11	7	62	19	456	14	70	46	0	0	16	12	1	4	17132	208	45	8	-7	14	161	56	450	41	61	3	24	31	1	2	180	28	137	4						
21-May-12	67	30.72	13:53:36		Patrick_5444	NA	105	Y2	1				521	13	16	7	73	19	464	14	29	45	0	0	5	11	7	5	16931	205	49	8	-56	14	197	55	447	41	62	3	42	30	0	2	162	27	140	4						
21-May-12	68	30.49	13:55:07		Patrick_5444	NA	105	Y2	1				519	13	17	8	91	19	468	14	39	46	0	0	1	11	2	4	17823	214	64	9	-42	14	173	57	491	43	61	3	-28	31	-3	1	151	28	140	4						
21-May-12	69	30.86	13:56:54		Patrick_5444	NA	105	Y2	2				650	15	14	8	70	19	506	15	46	49	0	0	7	12	2	5	20407	238	72	9	-35	14	166	61	460	43	61	3	-28	31	-2	2	128	28	148	4						
21-May-12	70	29.81	13:58:34		Patrick_5444	NA	105	Y2	2				692	15	19	9	54	20	608	17	115	52	0	0	8	12	0	5	20738	245	81	9	-23	14	140	62	435	44	58	3	-61	32	-2	2	182	29	151	4						
21-May-12	71	30.73	13:59:55		Patrick_5444	NA	105	Y2	2				690	15	19	9	71	19	577	16	-9	46	0	0	12	12	2	5	20618	240	75	9	-38	14	167	62	444	43	58	3	29	31	-2	2	141	28	146	4						
21-May-12	72	30.59	14:03:52		Patrick_5444	NA	139	1					222	8	10	5	48	19	224	10	15	42	0	0	19	10	0	4	14395	180	16	7	-37	14	-13	48	493	41	58	2	33	30	1	1	158	27	125	3						
21-May-12	73	29.93	14:05:06		Patrick_5444	NA	139	1					221	8	13	5	64	18	230	10	84	44	0	0	16	10	-1	4	14747	180	31	7	-14	13	78	49	542	41	61	2	33	29	0	1	122	27	133	3						
21-May-12	74	29.73	14:06:10		Patrick_5444	NA	139	1					244	9	-1	5	84	19	204	10	-2	42	0	0	8	10	0	4	14446	182	30	7	-33	14	58	50	432	39	59	2	7	30	1	1	124	27	122	3						
21-May-12	75	30.42	14:08:24		Patrick_5444	NA	139	2					176	7	12	4	72	18	200	9	-8	39	0	0	12	10	4	4	13044	165	13	6	-60	13	33	46	497	39	57	2	-28	29	-2	1	119	26	110	3						
21-May-12	76	30.31	14:09:45		Patrick_5444	NA	139	2					151	7	13	4	52	18	195	9	66	43	0	0	8	10	7	4	13391	169	20	7	-54	13	122	48	459	39	58	2	16	29	-1	1	144	27	114	3						
21-May-12	77	30.38	14:12:39		Patrick_5444	NA	139	2					152	7	10	4	61	18	218	10	-4	40	0	0	-2	9	3	4	13189	167	23	7	-37	13	55	47	415	38	65	3	5	29	0	1	146	27	114	3						
21-May-12	78	30.32	14:14:44		Patrick_5444	NA	139	3					393	11	21	7	65	19	457	14	3	42	0	0	23	11	1	4	14469	183	39	8	-39	14	62	50	501	41	64	3	56	30	0	1	191	28	121	3						
21-May-12	79	30.45	14:15:52		Patrick_5444	NA	139	3					408	11	16	7	47	19	474	14	68	44	0	0	16	11	1	4	13920	177	46	8	-28	14	91	49	389	38	61	3	-31	30	0	1	125	27	122	3						
21-May-12	80	30.24	14:17:13		Patrick_5444	NA	139	3					381	11	16	6	69	19	473	14	94	46	0	0	7	11	5	4	14097	180	44	8	-18	14	133	50	434	40	63	3	-24	31	3	2	158	28	127	3						
21-May-12	81	30.22	14:19:15		Patrick_5444	NA	139	3					384	11	10	6	55	19	456	14	-10	42	0	0	22	11	4	4	14112	178	41	8	-16	14	14	49	498	41	62	3	-22	30	-1	1	143	28	118	3						
21-May-12	82	30.53	14:22:32		Patrick_5444	NA	139	3					393	11	11	6	23	19	411	13	94	45	0	0	17	11	7	4	13676	175	40	8	1	14	83	49	440	40	57	2	17	30	1	1	123	28	121	3						
21-May-12	83	30.1	14:23:37		Patrick_5444	NA	139	3					432	11	0	7	95	19	461	14	125	46	0	0	13	10	3	4	14045	178	31	7	-5	14	5	48	440	40	64	3	19	30	2	2	191	28	120	3						
21-May-12	84	30.32	14:24:58		Patrick_5444	NA	139	3					417	11	11	7	55	19	473	14	23	43	0	0	0	10	11	5	13977	178	38	7	-17	14	50	49	533	42	60	3	-1	30	-4	1	157	28	121	3						
21-May-12	85	30.56	14:27:13		Patrick_5444	NA	139	3					396	11	4	6	44	19	444	14	18	42	0	0	1	10	5	4	13824	176	49	8	-31	14	111	49	487	41	61	3	-15	30	1	1	119	27	116	3						
21-May-12	86	30.29	14:28:40		Patrick_5444	NA	139	3					422	11	17	7	49	19	455	14	-6	42	0	0	3	10	3	4	14360	182	45	8	-1	14	151	51	484	41	63	3	-6	31	-2	1	142	27	125	3						
21-May-12	87	30.39	14:29:57		Patrick_5444	NA	139	3					412	11	11	7	45	19	454	14	63	45	0	0	3	10	-1	4	14330	182	35	7	-9	14	84	50	455	40	58	2	-1	30	-2	1	153	28	121	3						
21-May-12	88	30.53	14:34:35		Patrick_5444	NA	127	1					687	15	18	9	71	20	928	21	24	47	0	0	22	12	1	5	20246	237	100	10	-3	14	87	60	398	42	56	3	-55	31	1	2	142	29	168	4						
21-May-12	89	30.24	14:35:44		Patrick_5444	NA	127	1					664	15	26	9	48	20	898	21	46	50	0	0	12	13	5	5	22134	260	98	10	-17	15	248	66	434	44	51	3	100	32	-3	2	143	29	178	4						
21-May-12	90	31.02	14:37:27		Patrick_5444	NA	127	1					681	15	21	9	78	20	846	20	21	49	0	0	3	12	3	5	21109	247	105	10	-16	14	191	63	385	42	53	3	17	32	-2	2	185	29	172	4						
21-May-12	91	29.55	14:39:25		Patrick_5444	NA	127	2					209	8	9	5	46	19	232	10	10	41	0	0	13	10	0	4	13497	174	15	7	-25	14	88	49	384	38	60	2	-7	30	-1	1	155	28	110	3						
21-May-12	92	30.36	14:40:30		Patrick_5444	NA	127	2					212	8	2	5	61	19	202	9	61	43	0	0	-3	10	-3	4	13281	169	29	7	-38	13	116	48	311	35	57	2	61	30	0	1	128	27	110	3						
21-May-12	93	29.51	14:41:42		Patrick_5444	NA	127	2					193	8	14	5	56	18	206	9	27	41	0	0	9	10	1	4	13274	170	29	7	-39	14	91	48	298	35	57	2	25	30	-1	1	115	27	105	3						
21-May-12	94	31.16	14:47:59		Patrick_5444	NA	103	1	1				1153	22	22	12	111	21	739	20	159	61	0	0	15	14	12	6	30640	345	158	12	16	15	171	79	481	50	47	3	-13	34	0	2	170	31	197	5						
21-May-12	95	31.24	14:49:13		Patrick_5444	NA	103	1	1				1125	21	22	12	64	21	830	21	69	55	0	0	30	14	12	6	28436	322	182	13	-19	15	89	75	380	46	44	2	38	33	1	2	246	31	189	5						
21-May-12	96	31.22	14:50:57		Patrick_5444	NA	103	1	1				1131	21	15	12	51	21	780	20	96	57	0	0	21	14	-4	5	27769	318	199	13	16	15	191	75	425	48	43	2	19	34	-1	2	156	31	180	4						
21-May-12	97	31.31	14:52:43		Patrick_5444	NA	103	1	2				1168	22	37	12	55	21	871	22	79	58	0	0	18	15	4	5	30367	343	183	13	-27	15	184	79	408	48	45	3	53	33	1	2	233	31	198	5						
21-May-12	98	31.25	14:54:32		Patrick_5444	NA	103	1	2				1172	22	35	12	106	21	936	23	66	57	0	0	14	15	17	6	29513	336	171	13	2	15	371	79	493	50	49	3	-60	34	-1	2	193	31	198	5						
21-May-12	99	31.35	14:56:52		Patrick_5444	NA	103	1	2				1200	22	49	12	19	21	829	21	-26	55	0	0	12	15	12	6	31825	358	211	14	9	16	317	82	422	49	44	3	-53	34	-4	2	167	31	197	5						
21-May-12	100	30.95	14:58:38		Patrick_5444	NA	103	1	2				1181	22	53	12	71	21	930	22	90	57	0	0	11	13	6	6	28792	325	188	13	10	15	54	75	426	48	45	3	-15	33	-4	2	180	30	184	4						
21-May-12	101	31.43	15:00:29		Patrick_5444	NA	103	1	2				1174	22	39	12	105	21	878	22	131	60	0	0	33	15	-8	5	30878	347	215	14	-8	15	176	79	337	47	42	2	1	34	-4	2	166	31	200	5						
21-May-12	102	30.99	15:02:29		Patrick_5444	NA	103	1	2				1216	22	33	12	40	21	895	22	33	56	0	0	23	15	5	6	29577	335	152	12	2	15	203	78	471	49	43	2	8	34	-3	2	174	31	191	5						
21-May-12	103	31.43	15:03:35		Patrick_5444	NA	103	1	2				1216	22	26	12	66	20	895	22	-29	51	0	0	22	14	4	5	28406	322	167	12	-32	15	105	75	341	45	43	2	2	33	-2	2	165	30	199	5						
21-May-12	104	31.31	15:06:45		Patrick_5444	NA	103	1	2				1220	23	22	12	97	21	874	22	202	64	0	0	47	16	-1	5	32567	366	149	12	35	16	42	81	462	51	45	3	34	35	-2	2	182	31	183	5						
21-May-12	105	31.3	15:07:59		Patrick_5444	NA	103	1	2				1202	22	39	12	45	21	938	22	46	54	0	0	10	14	5	5	27877	317	167	12	-19	15	203	75	469	48	45	3	-4	33	-2	2	172	30	181	4						
21-May-12	106	31.3	15:09:04		Patrick_5444	NA	103	1	2				1202	22	22	12	83	21	911	22	73	58	0	0	29	15	2	5	32392	363	175	13	9	16	104	81	392	49	43	3	-39	34	0	2	205	31	190	5						
21-May-12	107	31.07	15:10:52		Patrick_5444	NA	103	1	2				1215	22	29	12	79	21	905	22	77	57	0	0	27	15	7	6	30142	341	149	12	-16	15	133	78	483	50	47	3	62	34	0	2	239	31	199	5						
21-May-12	108	30.95	15:13:00		Patrick_5444	NA	103	1	3				1043	20	20	11	42	20	761	20	29	54	0	0	47	14	11	6	29520	329	145	12	7	15	3	75	410	47	47	3	-8	33	-1	2	138	30	174	4						
21-May-12	109	31.29	15:14:37		Patrick_5444	NA	103	1	3				1035	20	22	11	99	20	778	20	77	53	0	0	10	13	-1	5	25809	296	157	12	-3	15	125	71	394	45	52	3	41	33	-2	2	167	30	171	4						
21-May-12	110	30.98	15:16:19		Patrick_5444	NA	103	1	3				1126	21	33	12	53	20	769	20	102	57	0	0	100	16	-1	5	28461	320	156	12	-2	15	51	74	359	46	45	2	-4	33	-2	2	130	30	176	4						
21-May-12	111	29.84	15:18:08		Patrick_5444	NA	103	2	1				333	10	8	6	70	18	316	12	-17	41	0	0	12	10	5	4	15031	183	67	8	-11	14	67	50	464	40	62	2	-24	30	1	1	176	27	112	3						
21-May-12	112	30.34	15:19:22		Patrick_5444	NA	103	2	1				357	10	5	6	31	19	334	12	-19	41	0	0	6	10	10	5	15464	189	73	9	-27	14	45	51	449	40	60	2	-27	30	0	1	159	27	110	3						
21-May-12	113	29.82	15:20:54		Patrick_5444	NA	103	2	1				333	10	9	6	62	18	332	12	86	44	0	0	17	10	2	4	15251	184	93	9	-42	13	44	50	464	40	65	3	0	29	-1	1	89	27	110	3						
21-May-12	114	30.48	15:22:52		Patrick_5444	NA	103	2	2				330	10	4	6	63	18	280	11	2	42	0	0	18	11	6	4	15235	187	64	8	-32	14	81	51	441	40	62	3	-31	30	1	1	124	27	109	3						
21-May-12	115	30.41	15:24:10		Patrick_5444	NA	103	2	2				339	10	4	6	97	19	281	11	64	45	0	0	23	11	6	4	15314	189	56	8	-11	14	37	51	429	40	68	3	15	30	-2	1	122	27	107	3						
21-May-12	116	30.35	15:25:37		Patrick_5444	NA	103	2	2				325	10	17	6	114	19	276	11	109	47	0	0	21	11	-1	4	16220	197	44	8	-22	14	-23	52	486	41	64	3	-6	30	-1	1	153	28	110	3						
21-May-12	117	30.08	15:27:32		Patrick_5444	NA	103	3					495	12	23	7	80	19	472	14	65	45	0	0	12	11	7	5	18614	216	65	8	-10	14	114	56	370	39	70	3	-38	30	0	1	109	28	117	3						
21-May-12	118	30.71	15:28:59		Patrick_5444	NA	103	3					487	12	16	7	68	19	487	15	32	46	0	0	-3	11	12	5	19021	225	59	8	0	14	80	58	429	42	64	3	-1	31	-1	1	117	28	130	4						
21-May-12	119	30.16	15:30:07		Patrick_5444	NA	103	3					523	13	2	7	54	19	485	15	-2	45	0	0	39	12	-1	4	19355	225	52	8	-4	14	105	58	379	40	65	3	8	31	3	2	155	28	122	3						
21-May-12	120	30.57	15:32:33		Patrick_5444	NA	103	y2	1				692	15	-6	8	78	19	428	14	37	49	0	0	18	12	-1	4	22938	260	80	9	-11	14	106	64	356	41	64	3	8	31	-3	1	153	29	116	3						
21-May-12	121	30.3	15:33:49		Patrick_5444	NA	103	y2	1				719	15	4	9	46	20	450	14	146	53	0	0	5	12	-4	4	23331	263	85	9	-14	14	240	66	374	42	63	3	18	31	-3	1	160	29	118	3						
21-May-12	122	30.43	15:35:21		Patrick_5444	NA	103	y2	1				682	15	25	9	66	19	479	15	-19	47	0	0	28	13	4	5	22883	259	79	9	-1	14	81	64	361	41	64	3	7	31	-1	2	160	29	120	3						
21-May-12	123	30.75	15:37:11		Patrick_5444	NA	103	y2	2				400	11	9	7	38	19	261	11	50	46	0	0	19	12	2	4	18731	219	51	8	-39	14	161	57	359	39	61	3	0	31	1	1	169	28	111	3						
21-May-12	124	30.73	15:38:25		Patrick_5444	NA	103	y2	2				378	11	20	6	90	19	263	11	29	46	0	0	13	11	-4	4	18482	218	59	8	-45	14	176	58	434	41	62	3	-27	31	0	1	134	28	109	3						
21-May-12	125	30.76	15:39:54		Patrick_5444	NA	103	y2	2				390	11	5	6	65	19	242	11	19	45	0	0	-2	11	0	4	18275	218	62	8	-28	14	184	58	368	40	67	3	5	31	0	1	165	28	123	3						
21-May-12	126	30.63	15:42:11		Patrick_5444	NA	103	y2	2				397	11	9	7	70	19	288	11	60	45	0	0	16	11	-3	4	18127	215	51	8	-26	14	120	56	384	40	66	3	-22	31	-1	1	146	28	126	3						
21-May-12	127	29.71	15:43:31		Patrick_5444	NA	103	y2	2				399	11	-1	7	61	19	256	11	55	47	0	0	14	12	9	5	19386	229	50	8	-17	14	131	59	410	41	60	3	18	32	-1	1	201	29	126	4						
21-May-12	128	30.11	15:45:08		Patrick_5444	NA	103	y2	2				447	12	11	7	79	19	329	12	62	47	0	0	15	12	8	5	20600	236	62	8	-8	14	150	60	417	41	73	3	-5	31	0	1	151	28	124	3						
21-May-12	129	30.83	15:47:01		Patrick_5444	NA	103	y2	2				374	11	15	6	69	19	275	11	67	47	0	0	18	12	6	4	18841	222	43	8	-20	14	150	58	361	39	63	3	61	30	1	1	162	28	119	3						
21-May-12	130	30.71	15:49:38		Patrick_5444	NA	103	y2	2				408	11	6	7	-7	19	272	11	44	46	0	0	17	12	0	4	19157	226	39	8	-7	14	82	58	381	40	66	3	29	31	0	1	187	28	118	3						
21-May-12	131	30.73	15:50:48		Patrick_5444	NA	103	y2	2				379	11	8	6	28	19	274	11	60	46	0	0	8	11	-6	4	18515	218	53	8	-18	14	214	58	384	40	66	3	25	31	1	1	150	28	118	3						
21-May-12	132	30.6	15:51:57		Patrick_5444	NA	103	y2	2				382	11	14	6	54	18	245	10	-25	42	0	0	40	12	5	4	18327	215	57	8	-60	14	30	55	328	38	66	3	-11	30	-4	1	180	27	122	3						
21-May-12	133	30.58	15:53:10		Patrick_5444	NA	103	y2	2				395	11	11	6	77	19	279	11	49	46	0	0	5	11	2	4	18690	219	73	9	-28	14	113	57	387	40	62	3	11	30	-2	1	153	28	116	3						
21-May-12	134	30.79	15:54:44		Patrick_5444	NA	103	y2	3				582	14	9	8	57	19	369	13	79	50	0	0	3	12	17	5	21685	249	73	9	-32	14	226	64	437	43	58	3	43	31	-1	1	182	29	138	4						
21-May-12	135	30.71	15:56:07		Patrick_5444	NA	103	y2	3				613	14	11	8	95	19	403	14	26	47	0	0	33	13	-5	4	21907	250	95	10	-14	14	179	63	420	42	60	3	29	31	-1	1	176	28	137	4						
21-May-12	136	30.51	15:57:24		Patrick_5444	NA	103	y2	3				601	14	15	8	51	20	394	14	62	50	0	0	16	12	3	5	22437	257	86	9	0	14	118	64	354	41	61	3	-53	32	-1	2	190	29	139	4						
21-May-12	137	29.07	15:59:24		Patrick_5444	2710							5725	72	647	32	77	24	7296	95	-62	75	0	0	18	19	81	13	38324	465	3137	59	-29	18	-63	98	9380	196	141	5	13	39	-9	4	266	36	343	7						
21-May-12	138	30.84	16:00:25		Patrick_5444	2711							1175	22	87	12	86	21	320	13	-15	51	0	0	6	13	11	6	24746	290	110	11	22	15	173	71	431	46	114	4	64	35	4	2	177	32	249	5						

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

In-Situ XRF Data

Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment		Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
21-May-12	139	30.04	16:01:32		Patrick_5444	408							486	16	386	12	480	23	123	9	606	81	0	0	-24	15	404	16	42083	448	6	8	371	17	226	93	584	58	125	4	92	35	486	10	244	32	155	4						
21-May-12	140	31.75	16:02:40		Patrick_5444	4315							233	8	14	5	36	18	765	17	40	33	0	0	5	7	-3	4	2299	59	90	8	-57	13	-6	20	440	33	9	1	-5	27	1	1	62	25	166	4						
21-May-12	141	31.54	16:03:49		Patrick_5444	5861							57	5	39	4	94	21	134	11	976	76	0	0	916	31	0	4	13652	184	3253	51	69	15	158	52	207	38	21	2	38	33	4	1	142	30	114	3						
21-May-12	142	30.76	16:04:54		Patrick_5444	BLANK							1	2	-1	1	66	17	3	3	7	26	0	0	-3	5	1	3	113	16	-8	4	6	12	0	9	-11	14	0	1	-35	27	-1	1	101	25	0	1						
22-May-12	2	37.65	8:03:35		ndbuka_5434	4315							254	9	10	8	-18	21	843	19	4	25	272	86	0	8	1	4	2631	66	113	9	64	17	17	24	515	37	12	1	43	31	0	1	-70	29	285	5						
22-May-12	3	37.43	8:09:44		ndbuka_5434	5861							63	5	56	6	11	23	114	11	551	51	-127	92	1176	39	-2	4	13564	190	3030	50	35	19	29	55	160	37	24	2	29	35	2	1	-111	32	110	3						
22-May-12	4	37.44	8:11:53		ndbuka_5434	5861							52	5	53	6	25	23	136	11	651	54	14	95	1083	38	6	4	13946	193	2897	48	69	19	172	57	115	36	21	2	-11	35	2	1	-170	32	113	3						
22-May-12	5	37.31	8:15:07		ndbuka_5434	2586							442	13	-5	11	2	25	318	13	128	50	382	168	-2	20	-5	4	50247	539	59	10	18	21	577	113	667	63	47	3	41	36	-1	2	-54	34	90	3						
22-May-12	6	37.17	8:19:50		ndbuka_5434	2711							1177	22	83	19	7	24	335	13	-30	35	208	130	11	15	21	6	25455	305	99	11	84	20	155	78	453	49	115	4	44	36	5	2	-59	34	261	6						
22-May-12	7	37.39	8:21:40		ndbuka_5434	2710							5888	74	442	45	-7	27	7162	93	-85	50	277	175	7	21	67	12	39481	479	3056	57	35	23	-228	103	10238	207	129	5	72	40	5	4	-26	37	357	7						
22-May-12	8	36.42	8:23:35		ndbuka_5434	2710							5808	73	491	46	-48	27	7104	93	-3	54	405	180	-15	21	63	12	39346	482	2978	57	29	23	-106	105	10152	208	125	5	91	40	-3	4	-111	38	356	7						
22-May-12	9	37.43	8:25:37		ndbuka_5434	2710							5856	73	449	45	-2	27	7181	93	-66	50	67	169	12	21	59	11	39330	475	3074	57	21	23	-205	103	10376	208	135	5	19	40	-5	4	-94	37	359	7						
22-May-12	10	45.34	8:27:30	PASS																																																				
22-May-12	11	38.29	8:29:07		ndbuka_5434	5861							51	5	43	5	24	23	131	11	597	50	41	93	1078	36	11	4	13860	185	2777	45	31	19	157	55	74	33	18	2	9	33	2	1	-113	31	107	3						
22-May-12	12	37.74	8:30:49		ndbuka_5434	4315							281	9	-1	8	-29	21	813	18	-6	24	199	82	-20	7	-5	3	2504	64	83	8	49	17	17	23	597	39	10	1	-9	31	-1	1	-125	29	307	5						
22-May-12	13	36.74	8:33:32		ndbuka_5434	4315							282	9	10	8	-16	22	849	19	-13	24	216	83	-8	8	-2	4	2776	70	125	10	59	18	29	25	760	44	15	2	-17	32	1	1	-83	30	298	5						
22-May-12	14	37.37	8:35:33		ndbuka_5434	4315							253	9	3	8	-44	21	778	18	-5	24	119	79	-16	7	0	4	2545	67	107	9	-28	18	3	24	393	34	10	1	8	31	-1	1	-105	29	229	5						
22-May-12	15	38.28	8:37:11		ndbuka_5434	2586							431	13	-15	11	-11	24	304	13	169	50	157	157	43	21	-1	4	50204	528	66	10	-10	20	436	110	727	63	49	3	33	36	-1	2	-100	34	83	3						
22-May-12	16	37.09	8:39:04		ndbuka_5434	2711							1195	22	61	18	52	24	339	13	23	37	54	124	-3	15	5	5	25616	306	95	10	22	20	209	78	526	51	108	4	47	36	8	2	-44	34	252	5						
22-May-12	17	36.25	8:40:42		ndbuka_5434	2710							5772	73	543	46	9	27	7162	94	-48	52	194	175	-13	21	82	12	39416	485	2942	56	2	23	-154	105	10010	207	127	5	-48	41	3	4	-107	38	342	7						
22-May-12	18	37.45	8:43:10		ndbuka_5434	2710							5855	74	543	46	5	27	7367	96	14	55	242	175	5	22	85	12	40674	495	3095	58	82	23	-91	107	9840	204	139	5	27	41	7	5	-99	38	360	7						
22-May-12	19	37.43	8:44:38		ndbuka_5434	2710							5962	75	476	46	-46	28	7428	97	-20	54	280	178	-47	20	78	12	40033	491	3097	58	103	23	-95	107	10170	209	142	5	17	41	-3	4	-70	39	353	7						
22-May-12	20	36.94	8:46:24		ndbuka_5434	Blank							2	3	0	2	-2	20	-3	2	-67	16	-89	55	0	7	0	3	-18	13	-10	5	-34	16	0	8	-27	13	2	1	46	28	0	1	-74	26	5	1						
22-May-12	21	36.97	8:51:10		ndbuka_5434	NA	105	1					1147	21	-73	17	-13	23	940	22	-40	35	-52	120	12	16	9	5	29165	331	119	11	-12	20	265	82	484	49	50	3	3	34	-1	2	-17	32	172	4						
22-May-12	22	37.05	8:53:09		ndbuka_5434	NA	105	1					1102	21	-56	17	34	24	1001	23	58	39	55	125	-2	16	-2	5	29241	333	116	11	-7	20	291	83	462	49	55	3	21	34	0	2	-112	32	159	4						
22-May-12	23	37.04	8:54:24		ndbuka_5434	NA	105	1					1058	20	-29	16	-41	23	906	22	49	38	-27	118	19	16	-2	5	28024	320	103	10	-97	19	203	80	377	46	54	3	8	33	1	2	-72	32	166	4						
22-May-12	24	36.88	8:56:30		ndbuka_5434	NA	105	2					405	11	10	10	3	22	329	12	-20	30	281	115	-13	12	-2	4	17593	213	37	8	-27	18	221	61	459	42	61	3	2	31	-1	1	-117	30	114	3						
22-May-12	25	36.74	8:57:56		ndbuka_5434	NA	105	2					408	11	-7	10	-25	21	309	11	19	31	86	107	2	13	2	4	18115	214	36	7	-62	18	238	60	428	41	61	2	-24	31	0	1	-163	29	115	3						
22-May-12	26	37.83	8:59:49		ndbuka_5434	NA	105	2					399	11	-27	9	12	21	281	11	35	31	121	105	-14	12	-2	4	16969	201	48	8	-59	17	230	58	375	39	58	2	65	30	-1	1	-124	28	118	3						
22-May-12	27	37.66	9:02:08		ndbuka_5434	sample	105	2		QCI			407	11	-9	9	6	21	300	11	25	30	102	105	7	12	-8	3	17531	206	45	8	-21	17	216	58	506	42	60	2	38	31	0	1	-89	29	117	3						
22-May-12	28	36.51	9:03:03		ndbuka_5434	sample	105	2		QCI			410	11	-12	10	26	21	297	11	16	31	338	114	0	12	0	4	16741	201	32	7	-56	18	203	58	469	41	63	2	7	31	1	1	-84	29	113	3						
22-May-12	29	36.51	9:04:00		ndbuka_5434	sample	105	2		QCI			395	11	-15	9	-34	21	293	11	45	32	283	113	-16	12	9	4	17062	204	37	7	-46	18	294	59	405	40	66	3	37	31	0	1	-99	29	113	3						
22-May-12	30	37.7	9:04:53		ndbuka_5434	sample	105	2		QCI			389	11	-11	9	-59	21	299	11	24	30	186	105	0	11	-2	3	17011	199	37	7	-37	17	106	56	490	41	64	2	-6	30	-1	1	-126	28	118	3						
22-May-12	31	36.51	9:05:51		ndbuka_5434	sample	105	2		QCI			430	11	-20	10	-18	21	269	11	69	32	116	104	3	12	0	4	17124	203	33	7	-101	17	116	57	414	40	64	2	17	30	0	1	-119	28	114	3						
22-May-12	32	36.56	9:07:02		ndbuka_5434	sample	105	2		QCI			418	11	-27	10	15	21	288	11	5	30	125	106	-1	12	-2	4	17271	206	32	7	-47	18	80	57	489	42	61	2	30	31	1	2	-96	29	117	3						
22-May-12	33	36.61	9:07:58		ndbuka_5434	sample	105	2		QCI			380	11	2	9	-7	21	320	12	48	31	126	105	4	12	-1	4	17036	203	35	7	-71	17	209	58	466	41	61	2	36	31	1	1	-161	29	116	3						
22-May-12	34	36.58	9:09:30		ndbuka_5434	sample	105	3					1512	25	-60	19	-4	23	1721	31	29	37	45	128	9	15	-1	5	27632	313	111	11	-32	19	143	78	526	50	57	3	32	33	1	2	-63	31	134	4						
22-May-12	35	36.77	9:11:18		ndbuka_5434	sample	105	3					1595	26	-56	20	-5	23	1769	32	36	38	139	132	-19	16	-4	5	27511	315	107	11	-24	19	475	81	566	51	62	3	28	35	-2	2	-130	32	146	4						
22-May-12	36	36.65	9:17:21		ndbuka_5434	sample	105	3					1498	25	-60	19	-13	23	1671	30	-3	36	243	134	-26	15	-11	5	26976	309	101	10	-31	19	313	79	511	49	57	3	48	34	-3	2	-194	32	133	4						
22-May-12	37	36.85	9:29:26		ndbuka_5434	sample	105	2					419	11	-23	10	1	21	303	11	4	30	-23	105	8	12	-4	4	17494	211	30	7	-71	18	84	59	447	41	57	2	-4	31	1	2	-96	29	115	3						
22-May-12	38	36.94	9:40:20		ndbuka_5434	sample	105	2					385	11	-5	10	-44	21	306	12	-48	28	269	114	-13	12	1	4	17324	211	36	7	-48	18	130	59	438	41	58	2	2	31	1	2	-124	30	117	3						
22-May-12	39	36.83	9:42:10		ndbuka_5434	sample	105	2					408	11	-1	10	-31	21	301	11	92	34	130	107	2	12	-6	3	17923	213	35	7	-102	17	116	59	487	43	59	2	24	31	-2	1	-102	29	119	3						
22-May-12	40	38.21	9:44:15		ndbuka_5434	sample	105	2					416	11	-14	10	-36	21	290	11	53	32	38	106	-16	12	0	4	17506	212	40	8	-88	18	233	60	422	41	63	3	-10	31	2	2	-190	29	113	3						
22-May-12	41	37.07	9:45:23		ndbuka_5434	sample	105	2					396	11	-15	10	-2	21	301	12	26	31	39	107	-6	12	5	4	17532	214	37	8	-85	18	203	61	395	41	60	3	43	31	0	1	-155	29	119	3						
22-May-12	42	36.81	9:46:36		ndbuka_5434	sample	105	2					396	11	-10	10	-32	21	300	11	-20	29	96	108	3	12	-4	4	17140	208	37	7	-91	18	129	58	504	43	59	2	80	31	-2	1	-165	29	118	3						
22-May-12	43	36.83	9:48:42		ndbuka_5434	sample	105	2					402	11	-18	10	-29	22	298	11	28	31	149	112	15	13	0	4	17083	209	37	8	-33	18	180	59	449	42	64	3	34	31	2	2	-115	29	122	3						
22-May-12	44	38.14	9:52:04		ndbuka_5434	sample	148	1					184	8	-6	7	-13	22	187	9	7	30	254	112	13	12	-5	3	14841	191	29	7	-16	18	154	56	563	44	60	3	16	32	-1	1	-59	30	128	4						
22-May-12	45	37.03	9:53:20		ndbuka_5434	sample	148	1					193	8	-4	7	-29	22	199	10	1	31	357	116	16	13	-3	4	15428	200	34	8	-1	19	164	58	675	48	62	3	-11	33	4	2	-103	31	132	4						
22-May-12	46	38.15	9:54:36		ndbuka_5434	sample	148	1					193	8	-16	7	-21	22	178	9	-13	30	281	112	-12	11	-1	4	15287	195	35	7	-28	18	165	57	715	48	58	2	10	32	0	1	-106	30	132	4						
22-May-12	47	37.97	9:56:10		ndbuka_5434	sample	148	2					130	7	4	6	-38	21	119	7	-44	26	108	102	0	11	-4	3	12308	165	21	7	3	18	61	49	550	42	61	2	8	31	2	1	-119	30	116	3						
22-May-12	48	37.91	9:57:51		ndbuka_5434	sample	148	2					139	7	-11	6	-27	21	125	8	-24	26	13	98	-9	11	-2	3	11919	159	17	6	-32	17	171	49	407	37	58	2	-10	31	-1	1	-132	29	126	3						
22-May-12	49	36.88	9:59:15		ndbuka_5434	sample	148	2					130	7	-10	6	-20	21	121	8	18	29	112	103	4	11	-1	3	11859	162	24	7	-47	18	85	49	438	39	58	2	86	31	1	1	-82	29	124	3						
22-May-12	50	38.09	10:01:32		ndbuka_5434	sample	129	1					177	8	-8	7	-20	22	178	9	-36	28	88	106	-14	12	-1	4	15302	194	9	6	-70	18	226	57	557	44	60	2	29	31	-1	1	-91	30	143	4						
22-May-12	51	38.06	10:02:57		ndbuka_5434	sample	129	1					172	7	-3	7	6	21	159	8	30	30	211	106	-19	11	6	4	15009	188	32	7	-23	18	182	55	566	43	62	2	36	31	-1	1	-141	29	135	4						
22-May-12	52	37.14	10:04:27		ndbuka_5434	sample	129	1					180	8	-5	7	-67	22	171	9	42	33	364	116	-19	11	-6	3	15217	197	35	7	-15	18	170	57	638	47	64	3	-31	32	0	1	-77	30	144	4						
22-May-12	53	38.03	10:06:04		ndbuka_5434	sample	129	2					161	7	13	6	-35	21	148	8	-9	28	209	103	0	11	-1	3	12998	168	28	7	-67	17	134	50	519	41	60	2	-25	30	-1	1	-103	29	106	3						
22-May-12	54	36.88	10:07:31		ndbuka_5434	sample	129	2					169	7	0	7	-59	21	141	8	39	30	114	102	-3	11	-4	3	12678	168	20	7	-49	18	85	50	497	41	61	2	39	31	1	1	-114	29	109	3						
22-May-12	55	38	10:08:47		ndbuka_5434	sample	129	2					165	7	3	6	-24	21	143	8	12	28	127	101	-3	10	-5	3	12856	166	21	7	-77	17	70	49	529	41	61	2	24	30	0	1	-88	28	106	3						
22-May-12	56	37.12	10:10:07		ndbuka_5434	sample	176	2					257	9	-14	8	-39	21	209	10	53	31	149	105	4	11	-2	4	13156	173	30	7	-45	18	72	51	220	34	61	2	29	31	0	1	-94	29	128	3						
22-May-12	57	37.08	10:11:27		ndbuka_5434	sample	176	2					244	9	-7	8	-26	21	181	9	-21	27	-8	99	8	12	1	4	12873	172	21	7	-52	18	147	52	221	33	61	2	24	31	-3	1	-77	29	128	3						
22-May-12	58	37.97	10:12:40		ndbuka_5434	sample	176	2					251	9	-14	7	-13	21	184	9	3	28	73	97	-14	10	4	4	13079	169	42	7	-51	17	130	50	281	34	58	2	13	30	-5	1	-85	29	126	3						
22-May-12	59	36.83	10:13:56		ndbuka_5434	sample	106	2					198	8	-14	7	-28	21	159	8	15	29	45	101	1	11	-4	3	12181	164	30	7	-55	18	108	49	807	48	55	2	-11	31	0	1	-120	29	106	3						
22-May-12	60	37.92	10:15:24		ndbuka_5434	sample	106	2					210	8	-7	7	-4	21	177	9	20	28	48	99	0	11	-7	3	12046	161	11	6	-27	18	161	49	732	46	56	2	-7	31	1	1	-63	29	117	3						
22-May-12	61	36.89	10:17:15		ndbuka_5434	sample	106	2					212	8	-16	7	19	21	166	9	-18	27	103	104	9	11	2	4	12713	170	13	6	-73	18	101	50	710	46	52	2	-29	31	2	1	-127	29	112	3						
22-May-12	62	37.8	10:18:23		ndbuka_5434	sample	106	2					195	8	0	7	-70	21	165	8	-31	26	129	102	-5	10	-5	3	12073	161	25	7	-58	17	114	48	806	47	56	2	-12	30	-3	1	-155	29	116	3						
22-May-12	63	38.13	10:19:57		ndbuka_5434	sample	155	1					269	9	-14	8	-20	21	216	10	-14	29	87	108	-16	11	11	4	16198	201	33	7	-30	18	157	57	403	40	63	3	22	31	-1	1	-71	29	139	4						
22-May-12	64	36.89	10:21:19		ndbuka_5434	sample	155	1					250	9	2	8	-29	22	213	10	-23	29	41	107	7	13	3	4	16798	208	38	8	-15	18	188	59	380	40	65	3	-15	32	-1	1	-148	30	140	4						
22-May-12	65	36.94	10:22:37		ndbuka_5434	sample	155	1		Cancelled mid-run			263	9	3	8	-39	22	235	10	15	30	84	106	-14	12	3	4	15404	197	30	7	-29	18	200	57	436	41	62	3	-18	32	-1	1	-88	30	135	4						
22-May-12	66	36.77	10:24:57		ndbuka_5434	sample	155	2					189	8	9	7	-11	21	189	9	-31	27	158	103	-1	11	-1	4	12779	169	19	7	-44	18	68	50	429	39	62	2	34	31	-1	1	-77	29	113	3						
22-May-12	67	36.82	10:26:11		ndbuka_5434	sample	155	2					212	8	-7	7	-65	22	204	10	86	32	102	104	-2	11	-6	3	13116	174	18	7	-53	18	127	52	384	39	59	2	-14	32	0	1	-101	30	123	3						
22-May-12	68	36.89	10:27:50		ndbuka_5434	sample	155	2					208	8	-10	7	-38	21	215	10	-9	27	-2	100	5	11	-5	3	12710	169	35	7	-53	18	108	51	364	37	63	3	46	31	0	1	-152	30	115	3						
22-May-12	69	37.15	10:29:44		ndbuka_5434	sample	135	1					282	10	-2	8	-47	22	240	11	31	32	127	109	10	13	1	4	17226	214	37	8	-50	18	195	61	696	49	58	3	39	32	2	2	-156	30	150	4						
22-May-12	70	38.17	10:31:11		ndbuka_5434	sample	135	1					288	10	-4	9	-16	22	224	10	6	33	363	122	1	13	2	4	19529	234	27	7	-27	18	136	64	638	48	66	3	63	32	3	2	-90	30	165	4						
22-May-12	71	37.08	10:33:28		ndbuka_5434	sample	135	1					307	10	-23	9	-47	23	239	11	11	33	193	119	-6	13	-1	4	19462	239	36	8	-34	19	163	65	646	49	60	3	43	33	-2	1	-48	31	162	4						
22-May-12	72	36.95	10:35:08		ndbuka_5434	sample	135	2					135	7	-7	6	-41	21	133	8	-1	28	106	103	-6	11	1	4	12621	168	13	6	-53	18	94	50	593	43	65	3	40	31	0	1	-77	29	113	3						
22-May-12	73	37.2	10:36:23		ndbuka_5434	sample	135	2					132	7	5	6	-50	21	120	8	-41	27	194	105	6	12	2	4	12475	169	6	6	-80	18	201	52	618	44	63	3	7	31	1	1	-113	29	114	3						
22-May-12	74	36.93	10:39:10		ndbuka_5434	sample	135	2					128	7	1	6	-9	21	114	7	9	29	136	103	-4	11	8	4	12440	167	19	7	-30	18	71	50	618	44	56	2	-31	31	1	1	-60	29	117	3						
22-May-12	75	36.97	11:40:08		ndbuka_5434	sample	135	2					126	7	-3	6	-50	21	115	7	33	30	171	105	17	11	-6	3	12554	167	4	6	-68	18	98	50	541	42	64	3	6	30	0	1	-141	29	109	3						
22-May-12	76	44.85	13:15:28	PASS																																																			
22-May-12	77	38.51	13:18:53		ndbuka_5434	5861							53	5	48	6	17	24	124	11	751	57	-57	95	1167	39	4	4	15214	204	3040	50	81	20	50	58	172	39	20	2	36	35	6	2	-162	33	121	4						
22-May-12	78	37.59	13:20:24		ndbuka_5434	4315							236	9	24	8	-18	22	819	19	1	25	-34	72	-11	8	-6	3	2403	67	116	10	-97	18	-4	24	809	46	13	2	22	30	-1	1	-115	29	204	4						
22-May-12	79	37.48	13:22:02		ndbuka_5434	2586							421	13	-4	11	-38	25	289	13	76	48	365	164	19	21	5	5	48741	529	63	10	-46	21	481	112	618	62	51	3	37	36	-1	2	-116	34	81	3						
22-May-12	80	37.1	13:23:34		ndbuka_5434	2711							1227	23	29	19	8	25	351	14	41	39	117	127	-4	15	16	6	26213	315	113	11	65	20	215	80	455	50	111	4	10	37	5	2	-91	34	256	6						
22-May-12	81	38.4	13:25:42		ndbuka_5434	2711							1197	22	41	18	31	24	326	13	62	39	349	134	-16	15	18	6	25063	301	106	11	48	20	252	78	595	52	112	4	47	36	5	2	-121	34	262	5						
22-May-12	82	36.46	13:27:09		ndbuka_5434	2710							5900	75	465	46	-27	27	7238	95	10	55	220	175	-33	21	67	12	39015	483	2902	56	26	23	0	107	10279	211	135	5	28	40	-2	4	-66	38	354	7						
22-May-12	83	37.47	13:43:32		ndbuka_5434	2710							5884	74	422	46	-24	27	7336	95	-88	50	26	171	0	21	87	12	39132	479	3123	58	0	23	-54	105	10081	207	127	5	74	40	-4	4	-42	38	371	8						
22-May-12	84	36.96	13:44:52		ndbuka_5434	Blank							-1	2	-2	2	-43	20	4	3	-65	16	-72	57	1	7	-3	3	-19	13	-4	5	-19	16	-2	8	-28	13	0	1	59	28	-2	1	-117	26	4	1						
22-May-12	85	36.73	13:46:33		ndbuka_5434	sample	116	Y1	1				318	10	-11	9	-27	22	218	10	47	33	79	110	-3	13	7	4	18362	222	30	7	20	18	239	62	449	43	67	3	-18	32	2	2	-124	30	149	4						
22-May-12	86	37.05	13:48:04		ndbuka_5434	sample	116	Y1	1				338	11	-18	9	-15	22	230	10	-15	31	7	109	5	13	5	4	18877	231	37	8	-28	19	61	63	398	42	67	3	53	33	0	1	-103	31	147	4						
22-May-12	87	36.99	13:49:20		ndbuka_5434	sample	116	Y1	1				329	11	-5	9	34	23	228	10	26	33	176	117	-3	13	-2	4	18967	232	57	8	-5	19	169	64	479	44	72	3	-26	33	0	1	-142	31	146	4						
22-May-12	88	37.06	13:51:07		ndbuka_5434	sample	116	Y1	2				293	10	-15	8	-9	22	201	10	-38	29	115	110	-3	12	0	4	17685	218	17	7	-40	18	154	61	342	39	67	3	32	32	0	1	-122	30	156	4						
22-May-12	89	37.13	13:52:30		ndbuka_5434	sample	116	Y1	2				297	10	-15	9	-43	22	181	9	21	32	193	113	17	13	0	4	17911	221	41	8	-67	18	107	61	337	40	65	3	-4	31	0	1	-74	30	156	4						
22-May-12	90	38.17	13:53:54		ndbuka_5434	sample	116	Y1	2				265	9	2	8	-11	22	192	9	13	31	14	105	-8	12	8	4	17588	215	23	7	-14	18	176	60	389	40	68	3	12	32	-3	1	-152	30	161	4						
22-May-12	91	37.06	13:55:34		ndbuka_5434	sample	116	Y1	3				328	10	-4	9	-47	22	218	10	8	32	200	114	13	13	0	4	18603	227	41	8	-26	18	203	63	356	41	66	3	77	32	-1	1	-69	30	151	4						
22-May-12	92	38.08	13:57:11		ndbuka_5434	sample	116	Y1	3				335	10	-28	9	-12	22	218	10	95	34	130	110	37	13	1	4	18246	220	36	8	18	18	-7	59	401	41	69	3	-14	32	0	1	-72	30	150	4						
22-May-12	93	37	13:58:27		ndbuka_5434	sample	116	Y1	3				324	10	0	9	-7	22	216	10	-4	32	296	119	18	13	-1	4	19523	235	28	7	-31	18	126	64	385	42	69	3	73	33	1	2	-104	31	154	4						
22-May-12	94	37.04	13:59:55		ndbuka_5434	sample	116	Y2	1				227	9	-3	8	-27	22	157	9	85	35	247	114	3	13	0	4	17798	220	30	7	3	19	204	62	379	41	71	3	-6	32	-1	1	-92	31	156	4						
22-May-12	95	37.03	14:01:29		ndbuka_5434	sample	116	Y2	1				243	9	-8	8	-21	22	160	9	71	34	180	111	-1	13	0	4	18313	225	33	8	-23	18	161	62	244	38	71	3	-7	33	-2	1	-137	31	153	4						
22-May-12	96	37.1	14:02:41		ndbuka_5434	sample	116	Y2	1				242	9	-3	8	-14	23	169	9	9	32	262	117	-12	13	-4	4	18453	226	33	8	-33	18	294	64	364	41	61	3	-35	33	-2	1	-219	31	153	4						
22-May-12	97	36.96	14:04:17		ndbuka_5434	sample	116	Y2	1				229	9	-10	8	-50	22	159	9	37	32	115	109	-21	11	6	4	17440	215	31	7	-43	18	117	60	361	40	65	3	-26	32	0	1	-75	31	158	4						
22-May-12	98	37.12	14:05:52		ndbuka_5434	sample	116	Y2	2				173	8	-7	7	-66	22	127	8	-69	28	290	117	-1	13	-4	3	17879	221	21	7	5	19	196	62	300	38	66	3	5	33	2	1	-159	31	146	4						
22-May-12	99	37.99	14:10:48		ndbuka_5434	sample	116	Y2	2				184	8	-12	7	-35	22	104	7	-10	30	142	111	-5	12	-3	3	17436	213	18	7	-5	18	134	60	338	39	65	3	16	32	-1	1	-54	31	143	4						
22-May-12	100	37.03	14:16:21		ndbuka_5434	sample	116	Y2	2				175	8	-7	7	-26	22	119	8	60	34	245	117	11	13	2	4	18355	224	18	7	1	18	130	62	303	39	66	3	82	33	0	1	-125	31	144	4						
22-May-12	101	36.76	14:18:01		ndbuka_5434	sample	116	Y2	3				210	8	-5	7	-16	22	151	8	-48	28	288	113	17	12	-4	3	16087	202	19	7	7	18	33	56	436	41	67	3	-37	32	0	1	-122	30	143	4						
22-May-12	102	37.84	14:20:51		ndbuka_5434	sample	116	Y2	3				218	8	-19	7	-9	21	151	8	-5	29	48	106	-4	12	-1	3	15897	196	31	7	-30	18	145	56	412	40	62	2	18	31	2	1	-70	30	144	4						
22-May-12	103	38.04	14:23:01		ndbuka_5434	sample	116	Y2	3				202	8	-5	7	-25	22	146	8	64	32	86	107	34	13	1	4	15964	199	36	7	-28	18	112	56	490	42	66	3	0	32	0	1	-138	30	137	4						
22-May-12	104	38.19	14:24:49		ndbuka_5434	sample	146	1	1				390	11	-6	10	-29	22	352	13	25	34	106	116	16	14	2	4	23664	272	73	9	-37	19	167	71	476	46	61	3	-6	33	0	2	-120	31	146	4						
22-May-12	105	38.45	14:25:59		ndbuka_5434	sample	146	1	1				397	12	-12	10	-7	23	340	13	44	35	117	117	-1	14	6	4	22157	260	45	8	-40	19	193	69	443	45	60	3	14	33	-1	1	-115	31	149	4						
22-May-12	106	37.15	14:27:31		ndbuka_5434	sample	146	1	1				398	12	-6	10	-14	23	331	13	-9	33	149	122	-3	14	1	4	22383	267	60	9	-7	19	197	71	472	46	59	3	29	33	1	2	-101	31	144	4						
22-May-12	107	36.93	14:28:58		ndbuka_5434	sample	146	1	1				391	11	19	10	3	22	341	13	20	33	33	111	1	14	-1	4	21274	250	73	9	-16	19	274	68	538	46	55	2	-50	33	2	2	-152	31	146	4						
22-May-12	108	38.26	14:30:53		ndbuka_5434	sample	146	1	1				412	12	-5	10	-35	22	361	13	69	36	163	120	-6	14	2	4	22760	266	53	8	-34	19	317	71	570	48	58	3	22	33	0	2	-102	31	146	4						
22-May-12	109	37.26	14:32:13		ndbuka_5434	sample	146	1	1				382	11	7	10	-41	23	378	13	-12	33	64	116	2	14	-1	4	22566	266	56	9	0	19	142	70	390	44	63	3	12	33	-3	1	-70	31	146	4						
22-May-12	110	37.16	14:35:01		ndbuka_5434	sample	146	1	1	QCI			399	12	-9	10	-36	22	350	13	-5	33	226	121	4	13	5	4	21425	255	58	9	-43	19	102	67	433	44	59	3	14	33	-3	1	-103	31	141	4						
22-May-12	111	37.06	14:35:55		ndbuka_5434	sample	146	1	1	QCI			412	12	-18	10	4	22	350	13	-8	32	134	115	-5	14	4	4	21124	252	64	9	-42	19	314	69	491	45	63	3	50	32	-3	1	-124	31	139	4						
22-May-12	112	38.17	14:36:47		ndbuka_5434	sample	146	1	1	QCI			392	11	0	10	-35	22	353	13	41	34	177	115	7	14	5	4	20898	246	52	8	-41	18	256	67	436	43	59	3	5	32	0	1	-115	30	138	4						
22-May-12	113	38.31	14:37:45		ndbuka_5434	sample	146	1	1	QCI			407	12	-18	10	-27	22	350	13	64	35	145	113	-11	13	3	4	21326	248	69	9	-63	18	203	67	404	43	64	3	-5	32	1	2	-84	30	141	4						
22-May-12	114	38.25	14:38:48		ndbuka_5434	sample	146	1	1	QCI			395	11	3	10	-45	22	372	13	-16	32	145	112	-33	13	-4	4	21073	248	59	8	-15	19	349	68	458	44	63	3	-34	32	-1	1	-132	30	144	4						
22-May-12	115	37.09	14:39:50		ndbuka_5434	sample	146	1	1	QCI			399	12	-13	10	-38	22	361	13	21	34	81	117	-12	13	-7	4	21319	255	67	9	-39	19	195	68	399	43	62	3	-25	33	3	2	-123	31	146	4						
22-May-12	116	37.14	14:40:50		ndbuka_5434	sample	146	1	1	QCI			427	12	-25	10	-19	23	357	13	-24	32	107	116	-22	14	5	4	21612	257	55	9	6	19	367	71	454	45	61	3	32	33	-4	1	-124	31	146	4						
22-May-12	117	37.13	14:42:22		ndbuka_5434	sample	146	1	2				380	11	12	10	-20	22	340	13	-31	31	83	115	-16	14	1	4	21308	254	58	9	-50	19	358	70	527	46	59	3	-30	33	0	2	-98	31	139	4						
22-May-12	118	38.25	14:44:39		ndbuka_5434	sample	146	1	2				399	12	-6	10	-39	22	313	12	8	33	49	112	34	14	2	4	21273	252	65	9	-22	19	98	67	522	46	60	3	-32	32	0	2	-92	31	144	4						
22-May-12	119	37.1	14:45:54		ndbuka_5434	sample	146	1	2				380	11	2	10	-29	22	340	13	44	35	276	121	-15	13	-4	4	21408	254	51	8	-55	19	300	69	392	43	66	3	-28	33	1	2	-71	31	144	4						
22-May-12	120	37.12	14:47:50		ndbuka_5434	sample	146	1	3				386	11	-10	10	-28	23	317	12	26	34	0	112	16	14	-3	4	21769	258	62	9	-13	19	157	68	439	44	61	3	26	33	0	2	-112	31	150	4						
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22-May-12	122	38.21	14:50:49		ndbuka_5434	sample	146	1	3				390	11	-9	10	-58	22	310	12	11	33	267	118	-9	13	-1	4	20772	243	62	8	-59	18	204	66	473	44	67	3	-12	32	2	2	-101	30	138	4						
22-May-12	123	36.95	14:53:24		ndbuka_5434	sample	146	Y1	1	front			369	11	1	10	-48	22	398	14	18	33	-10	112	-8	13	-1	4	20074	242	64	9	-20	19	197	66	545	46	67	3	-21	33	-1	1	-112	31	153	4						
22-May-12	124	37.11	14:54:45		ndbuka_5434	sample	146	Y1	1	front			347	11	14	10	-7	23	386	14	77	36	187	120	-8	13	-5	4	20047	243	77	9	-38	19	233	67	416	44	63	3	15	33	0	2	-131	31	151	4						
22-May-12	125	37.1	14:55:58		ndbuka_5434	sample	146	Y1	1	front			352	11	14	10	-29	23	378	13	17	33	83	112	4	14	4	4	19390	238	60	9	-7	19	219	66	498	45	67	3	-3	33	1	2	-145	31	144	4						
22-May-12	126	37.05	14:57:19		ndbuka_5434	sample	146	Y1	2	front			300	10	-25	9	-18	22	249	11	-20	32	192	119	25	14	-5	4	21364	255	33	8	-2	19	188	68	547	47	65	3	40	33	0	1	-149	31	146	4						
22-May-12	127	37.2	14:58:31		ndbuka_5434	sample	146	Y1	2	front			286	10	2	9	-38	22	286	12	58	35	220	119	-6	13	-3	4	20508	246	44	8	-11	19	201	67	526	46	70	3	22	32	-1	1	-95	31	144	4						
22-May-12	128	36.97	14:59:37		ndbuka_5434	sample	146	Y1	2	front			296	10	-8	9	-55	23	284	12	126	37	-28	112	9	14	3	4	20289	245	32	8	-14	19	237	67	495	46	64	3	24	33	3	2	-25	31	158	4						
22-May-12	129	38.14	15:01:28		ndbuka_5434	sample	146	Y1	3	front			305	10	-7	9	4	22	264	11	8	32	137	113	-8	12	-1	4	19793	236	42	8	-45	18	117	64	538	45	63	3	48	32	-3	1	-91	30	135	4						
22-May-12	130	37.21	15:05:06		ndbuka_5434	sample	146	Y1	3	front			289	10	-8	9	-56	22	264	11	-17	31	59	112	30	14	-2	4	20219	243	54	8	-38	19	123	65	423	43	65	3	-11	32	2	2	-78	31	141	4						
22-May-12	131	37.1	15:06:18		ndbuka_5434	sample	146	Y1	3	front			289	10	-6	9	-39	22	274	11	39	34	52	115	11	14	-1	4	20328	245	46	8	-3	19	139	66	545	47	68	3	-32	33	2	2	-166	31	143	4						
22-May-12	132	38.16	15:08:10		ndbuka_5434	sample	146	Y2	1	back			442	12	-15	10	-17	22	487	15	29	33	324	118	19	13	-4	4	17846	219	86	9	-33	18	136	61	371	41	62	3	15	32	1	2	-93	30	162	4						
22-May-12	133	36.75	15:09:38		ndbuka_5434	sample	146	Y2	1	back			424	12	-12	10	-14	22	486	15	44	33	168	112	10	13	8	4	18126	218	83	9	-43	18	183	61	411	41	61	3	1	31	1	2	-110	30	164	4						
22-May-12	134	36.81	15:10:56		ndbuka_5434	sample	146	Y2	1	back			442	12	0	10	2	22	460	14	-48	29	206	113	11	13	1	4	17813	218	69	9	-54	18	165	61	444	42	60	3	49	32	1	2	-181	30	161	4						
22-May-12	135	37.9	15:12:36		ndbuka_5434	sample	146	Y2	2	back			401	11	-15	10	-40	21	464	14	9	31	96	110	20	13	-1	4	18270	218	67	9	-49	18	178	61	375	40	64	3	-18	31	0	1	-88	30	159	4						
22-May-12	136	37.98	15:14:01		ndbuka_5434	sample	146	Y2	2	back			409	11	-10	10	-22	22	486	15	-6	30	89	109	22	13	2	4	18824	224	85	9	-30	18	73	61	439	42	64	3	29	31	0	1	-100	30	161	4						
22-May-12	137	36.9	15:15:53		ndbuka_5434	sample	146	Y2	2	back			400	12	-7	10	-18	22	469	15	55	34	149	114	14	13	-4	4	18051	223	75	9	-7	19	184	62	369	41	62	3	25	33	0	2	-129	31	161	4						
22-May-12	138	37.07	15:17:41		ndbuka_5434	sample	146	Y2	2	back			391	11	0	10	-2	22	467	15	-12	31	83	112	-19	13	1	4	18479	227	69	9	-22	19	347	65	470	44	66	3	4	33	0	2	-98	31	165	4						
22-May-12	139	36.97	15:18:51		ndbuka_5434	sample	146	Y2	2	back			376	11	3	10	15	22	456	14	20	32	167	113	15	13	0	4	18115	222	71	9	-23	18	216	62	453	43	64	3	6	32	1	2	-95	31	155	4						
22-May-12	140	36.93	15:20:05		ndbuka_5434	sample	146	Y2	2	back			411	12	-18	10	-30	22	461	15	16	33	231	119	2	13	-3	4	18787	229	58	8	18	19	222	64	432	43	61	3	23	32	-1	1	-104	31	165	4						
22-May-12	141	37.89	15:22:20		ndbuka_5434	sample	146	Y2	2	back			428	12	-23	10	-56	22	460	14	-24	30	181	112	22	13	0	4	18313	220	66	9	-18	18	91	60	359	40	65	3	20	31	-2	1	-70	30	153	4						
22-May-12	142	38.02	15:23:46		ndbuka_5434	sample	146	Y2	2	back			437	12	-41	10	-37	22	442	14	-5	31	198	114	17	13	2	4	18367	223	53	8	-24	18	131	62	414	42	60	3	3	32	5	2	-84	30	167	4						
22-May-12	143	37.04	15:25:06		ndbuka_5434	sample	146	Y2	2	back			406	12	0	10	2	22	497	15	13	32	-24	108	-5	12	0	4	18369	227	75	9	-60	19	109	63	403	42	62	3	-51	33	0	2	-139	31	163	4						
22-May-12	144	36.89	15:26:38		ndbuka_5434	sample	146	Y2	3	back			423	12	-19	10	-22	22	465	15	0	31	182	114	4	13	-8	3	18356	225	67	9	-63	18	257	63	322	40	59	3	-41	32	1	2	-138	30	147	4						
22-May-12	145	36.83	15:28:32		ndbuka_5434	sample	146	Y2	3	back			418	12	-7	10	-9	22	432	14	4	31	218	115	-1	13	3	4	17977	220	95	10	-19	18	188	62	323	39	64	3	8	32	0	2	-80	31	147	4						
22-May-12	146	36.77	15:30:14		ndbuka_5434	sample	146	Y2	3	back			404	11	-7	10	-12	22	447	14	-48	29	280	115	28	14	2	4	18216	220	68	9	-48	18	162	61	417	41	65	3	27	32	1	2	-131	30	139	4						
22-May-12	147	38.07	15:32:58		ndbuka_5434	sample	146	2	1				575	13	-8	11	-12	21	543	15	11	31	108	106	19	13	3	4	18645	221	106	10	-88	18	110	61	433	41	54	2	-4	31	0	2	-84	29	151	4						
22-May-12	148	36.95	15:38:40		ndbuka_5434	sample	146	2	1				588	14	-32	12	-41	22	557	16	32	32	-21	105	-12	13	0	4	19131	229	105	10	-66	18	206	63	400	42	58	3	6	31	-1	2	-157	29	148	4						
22-May-12	149	37.01	15:39:48		ndbuka_5434	sample	146	2	1				571	14	-21	12	7	22	533	16	11	32	183	112	-4	12	4	4	18223	222	108	10	-98	18	146	62	364	40	58	3	-32	31	2	2	-103	30	148	4						
22-May-12	150	36.99	15:41:40		ndbuka_5434	sample	146	2	2				480	13	-16	11	-4	22	506	15	5	32	105	110	6	13	-1	4	19114	232	86	9	-57	18	226	65	393	42	59	3	-37	32	-1	2	-119	31	153	4						
22-May-12	151	37.14	15:42:52		ndbuka_5434	sample	146	2	2				478	13	-2	11	-38	22	482	15	-7	31	61	111	-10	13	-4	4	18922	231	54	8	-71	18	185	64	377	41	59	3	36	32	-2	1	-115	31	154	4						
22-May-12	152	37.09	15:44:04		ndbuka_5434	sample	146	2	2				478	13	5	11	-69	22	477	15	-26	30	124	109	1	13	5	4	18778	227	94	9	-64	18	191	63	392	41	59	3	-17	31	-2	1	-125	30	151	4						
22-May-12	153	37	15:45:31		ndbuka_5434	sample	146	2	3				568	14	-29	11	-64	22	535	16	-16	31	105	109	8	13	4	4	19080	229	99	10	-61	18	207	63	390	41	57	2	1	31	-3	1	-106	30	141	4						
22-May-12	154	36.9	15:47:03		ndbuka_5434	sample	146	2	3				557	13	-7	11	-24	22	545	16	33	32	-40	103	14	13	-7	4	18616	223	104	10	-69	18	171	62	454	43	58	2	35	31	0	2	-112	29	142	4						
22-May-12	155	36.98	15:48:38		ndbuka_5434	sample	146	2	3				565	14	-19	11	-30	21	540	16	9	31	138	109	-14	12	-3	4	18607	224	101	10	-92	18	225	63	425	42	58	2	-4	31	-3	1	-67	29	146	4						
22-May-12	156	37.54	15:58:20		ndbuka_5434	5861							54	5	61	6	55	24	134	12	635	55	204	108	1172	40	-2	4	14712	204	2816	49	60	20	35	58	170	39	24	2	48	35	2	1	-71	34	117	4						
22-May-12	157	37.38	15:59:44		ndbuka_5434	2586							434	13	2	12	-41	25	306	13	162	51	83	158	6	21	-10	4	50332	544	58	10	3	21	536	114	697	64	47	3	45	36	0	2	-112	34	87	3						

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

In-Situ XRF Data

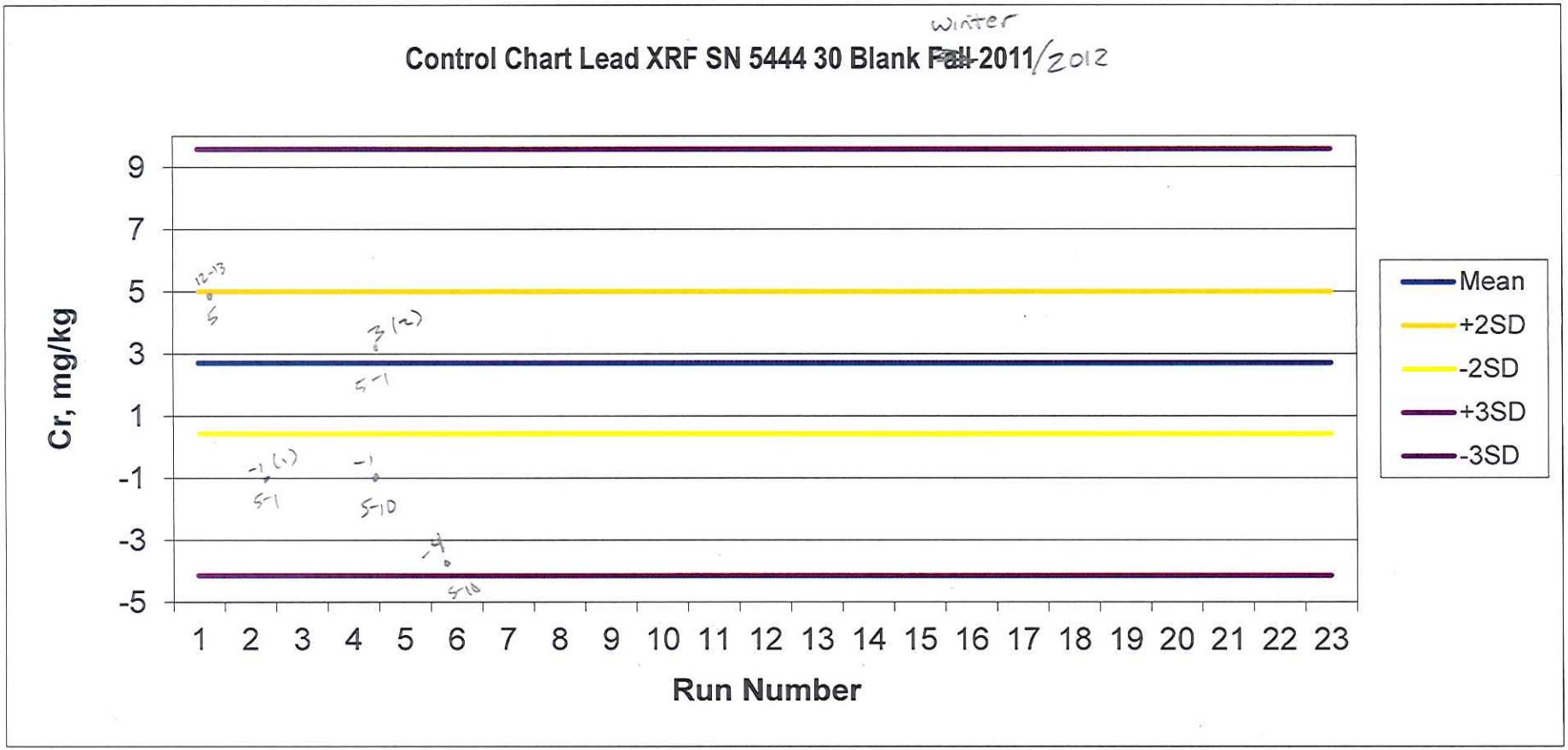
Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment		Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
22-May-12	158	37.58	16:01:08		ndbuka_5434	4315							228	8	5	7	-7	21	763	18	-14	23	-7	72	5	9	-3	3	2184	62	71	8	-93	17	43	24	503	37	11	1	44	29	-1	1	-122	28	168	4						
22-May-12	159	37.08	16:03:18		ndbuka_5434	2711							1203	23	66	19	42	25	331	13	-27	36	34	125	5	15	20	6	26806	320	103	11	61	20	85	80	489	50	117	4	61	37	7	2	-126	34	260	6						
22-May-12	160	37.39	16:04:43		ndbuka_5434	2711							1225	23	38	19	68	25	334	14	-26	36	57	128	-8	15	21	6	26103	315	100	11	53	20	149	79	351	47	114	4	13	37	1	2	-71	35	261	6						
22-May-12	161	37.54	16:06:05		ndbuka_5434	2710							5976	75	424	46	1	27	7297	95	14	55	382	180	-10	21	85	12	40038	488	3199	59	34	23	-196	105	10223	209	143	5	49	41	4	4	-137	38	355	7						
22-May-12	162	36.39	16:07:30		ndbuka_5434	2710							5747	73	474	45	-6	27	7132	94	75	56	163	171	-17	21	71	12	38866	478	2938	56	-15	23	-68	105	10298	210	134	5	-26	40	0	4	-148	38	361	7						
22-May-12	163	36.9	16:09:14		ndbuka_5434	Blank							-2	2	2	2	-53	20	4	3	-41	17	-182	51	-9	6	-1	3	1	14	-3	5	0	16	-10	8	-20	13	2	1	21	28	1	1	-115	27	4	1						
23-May-12	1	43.84	7:46:12	PASS																																																		
23-May-12	2	37.29	7:50:06		ndbuka_5434	5861							62	5	41	6	32	23	140	11	613	53	-46	94	1105	38	1	4	13827	192	2799	48	44	19	150	57	98	36	22	2	34	34	2	1	-59	32	114	4						
23-May-12	3	38.36	7:51:25		ndbuka_5434	5861							57	5	56	6	22	23	148	12	637	54	109	102	1079	38	4	4	15419	205	3174	51	48	19	94	59	156	38	18	2	17	35	5	2	-99	32	117	4						
23-May-12	4	38.24	7:53:27		ndbuka_5434	4315							231	8	-5	7	-49	21	774	18	21	25	4	72	-14	7	-2	3	2555	66	104	9	-48	17	-27	23	469	36	11	1	30	29	1	1	-129	28	182	4						
23-May-12	5	38.02	7:55:08		ndbuka_5434	2586							419	13	-8	11	-16	24	315	13	137	48	152	156	29	20	-5	4	49785	522	57	9	-31	20	481	110	629	60	44	2	66	35	-3	1	-38	33	85	3						
23-May-12	6	37.75	7:57:31		ndbuka_5434	2711							1192	22	58	18	42	24	331	13	-17	36	465	135	-5	15	7	5	25658	305	98	10	69	20	265	78	457	49	109	4	80	36	3	2	-117	34	262	5						
23-May-12	7	37.05	7:58:56		ndbuka_5434	2710							5782	73	538	45	37	27	7130	93	43	54	29	167	-29	20	86	12	38734	472	3060	57	53	23	-100	104	9900	203	134	5	49	40	5	4	-51	37	355	7						
23-May-12	8	36.96	8:01:33		ndbuka_5434	2710							5663	71	527	45	21	26	6973	90	-34	51	215	169	-11	21	65	11	38598	467	2978	56	54	23	-1	103	10096	204	124	4	10	39	3	4	-16	37	360	7						
23-May-12	9	37.61	8:03:03		ndbuka_5434	Blank							4	3	-3	2	-26	19	-2	2	-34	17	-134	52	-9	6	-2	3	-21	12	-9	5	-27	16	-6	8	-22	13	3	1	-19	28	1	1	-155	26	3	1						
23-May-12	10	37.75	8:05:02		ndbuka_5434	sample	103	Y1	1				465	12	-22	11	-45	22	391	13	-6	32	367	118	24	14	2	4	17714	219	65	9	1	19	165	61	565	46	63	3	-32	33	1	2	-92	31	130	4						
23-May-12	11	37.83	8:06:13		ndbuka_5434	sample	103	Y1	1				438	12	-21	10	-27	22	426	14	31	33	112	113	-12	12	-4	4	18461	226	78	9	-54	18	204	63	500	44	61	3	37	32	-1	1	-88	30	123	4						
23-May-12	12	37.65	8:07:23		ndbuka_5434	sample	103	Y1	1				452	12	-19	10	-20	22	429	14	-1	31	252	116	-20	12	2	4	17839	219	79	9	-41	18	314	63	527	45	60	3	-19	32	1	2	-58	31	127	4						
23-May-12	13	37.67	8:09:08		ndbuka_5434	sample	103	Y1	2				299	10	-16	8	-39	22	367	13	12	30	8	105	-2	12	7	4	16097	201	46	8	6	18	206	58	476	42	58	2	10	32	1	1	-114	30	114	3						
23-May-12	14	37.4	8:10:17		ndbuka_5434	sample	103	Y1	2				295	10	-10	8	6	22	387	13	64	32	-14	104	-2	12	0	4	15807	197	71	9	-12	18	214	57	500	43	67	3	-43	32	2	2	-69	30	114	3						
23-May-12	15	37.53	8:11:34		ndbuka_5434	sample	103	Y1	2				300	10	-10	8	-55	21	377	13	62	32	60	107	3	12	10	4	15739	196	60	8	-16	18	187	57	608	45	65	3	13	32	1	1	-115	30	115	3						
23-May-12	16	37.67	8:13:04		ndbuka_5434	sample	103	Y1	3				334	10	-11	9	-67	22	357	13	-31	29	162	110	-24	12	1	4	17082	210	47	8	-37	18	315	61	431	41	64	3	-50	32	-1	1	-51	30	122	3						
23-May-12	17	37.77	8:14:35		ndbuka_5434	sample	103	Y1	3				343	11	-6	9	-41	22	361	13	66	33	87	110	3	13	5	4	16619	207	55	8	7	18	226	60	511	44	61	3	17	32	-3	1	-74	30	118	3						
23-May-12	18	37.74	8:15:45		ndbuka_5434	sample	103	Y1	3				332	10	-22	9	-56	22	367	13	27	31	167	110	9	12	2	4	16387	204	66	9	-1	18	124	58	416	41	60	3	16	32	3	2	-79	30	117	3						
23-May-12	19	38.18	8:21:52		ndbuka_5434	sample	125	1	1				1205	22	-29	18	-46	24	702	19	-8	36	278	128	0	16	6	5	25514	303	138	12	-13	20	322	79	348	46	43	2	5	35	-2	2	-47	33	180	4						
23-May-12	20	38.15	8:23:11		ndbuka_5434	sample	125	1	1				1264	23	-77	18	-25	24	683	19	88	40	198	125	2	15	10	5	24501	295	145	12	33	20	211	76	340	46	41	2	-16	35	-2	2	-94	33	186	5						
23-May-12	21	38.1	8:25:48		ndbuka_5434	sample	125	1	1				1229	23	-36	18	28	24	700	19	-25	35	294	130	-1	15	4	5	24478	296	133	12	7	20	254	77	349	45	47	3	31	35	4	2	-62	33	178	5						
23-May-12	22	38.32	8:28:12		ndbuka_5434	sample	125	1	2				1196	22	-55	17	-45	23	639	18	72	38	96	120	-4	15	-5	5	24361	291	144	12	-10	20	182	75	251	42	45	2	4	34	0	2	-92	32	186	5						
23-May-12	23	38.18	8:29:30		ndbuka_5434	sample	125	1	2				1214	22	-48	18	-30	24	701	19	12	36	243	127	6	15	3	5	23472	285	154	12	-39	20	265	75	410	47	42	2	38	35	0	2	-102	32	184	5						
23-May-12	24	38.25	8:32:24		ndbuka_5434	sample	125	1	2				1166	22	-56	17	-10	24	659	18	5	36	243	125	25	16	-1	5	24191	290	154	12	4	20	142	75	298	44	43	2	31	35	-2	2	-90	33	184	5						
23-May-12	25	38.1	8:36:20		ndbuka_5434	sample	125	1	2				1199	22	-41	18	-40	24	772	20	68	39	128	121	-14	15	9	5	24246	293	120	11	-12	20	372	78	308	44	45	2	4	35	1	2	-85	33	174	4						
23-May-12	26	38.03	8:38:42		ndbuka_5434	sample	125	1	2				1157	22	-44	17	-51	24	656	19	-97	32	147	124	13	15	0	5	25177	301	138	12	10	20	154	77	362	45	46	3	16	35	-1	2	-97	33	185	5						
23-May-12	27	38.11	8:39:59		ndbuka_5434	sample	125	1	2				1138	22	-44	17	-18	24	713	19	82	40	164	124	-3	15	5	5	25334	303	149	12	21	20	254	78	356	46	43	2	-4	35	-1	2	-110	33	182	5						
23-May-12	28	37.85	8:41:35		ndbuka_5434	sample	125	1	3				1093	21	-21	17	-27	23	634	18	-48	33	12	118	3	16	7	5	24933	296	122	11	-9	20	358	78	359	45	46	2	-12	34	3	2	-88	33	182	4						
23-May-12	29	37.97	8:42:54		ndbuka_5434	sample	125	1	3				1131	21	-41	17	15	23	660	18	67	38	29	120	11	16	1	5	25622	302	132	11	-31	20	238	77	362	46	47	3	81	34	-2	2	-66	32	179	4						
23-May-12	30	37.17	8:44:06		ndbuka_5434	sample	125	1	3				1192	22	-53	18	-18	24	682	19	9	37	310	130	19	16	0	5	24521	293	145	12	65	20	392	78	481	49	45	2	-13	35	6	2	-129	33	181	5						
23-May-12	31	37.85	8:45:46		ndbuka_5434	sample	125	2	1				314	10	0	9	-16	21	222	10	-5	28	133	105	-4	11	-1	4	13571	177	23	7	-17	18	123	52	477	41	55	2	-23	31	0	1	-146	30	121	3						
23-May-12	32	37.5	8:46:54		ndbuka_5434	sample	125	2	1				333	10	-6	9	-11	21	214	10	9	29	271	108	-18	11	0	4	13457	174	39	7	-7	18	167	52	451	40	59	2	35	31	0	1	-143	29	125	3						
23-May-12	33	37.9	8:48:05		ndbuka_5434	sample	125	2	1				318	10	-9	9	-66	22	208	10	12	29	-108	96	3	12	2	4	13590	179	31	7	-19	18	127	53	397	39	57	2	30	32	1	1	-112	30	120	3						
23-May-12	34	36.98	8:49:39		ndbuka_5434	sample	125	2	2				328	10	-28	9	-19	22	221	10	10	29	30	102	-4	11	2	4	13394	178	35	7	-18	18	107	53	424	40	52	2	32	32	0	1	-103	30	123	3						
23-May-12	35	38.15	8:51:07		ndbuka_5434	sample	125	2	2				312	10	-12	9	-37	22	220	10	18	29	67	104	-15	11	-5	3	13601	178	26	7	-16	18	215	54	371	38	56	2	18	32	-1	1	-120	30	124	3						
23-May-12	36	37.59	8:52:47		ndbuka_5434	sample	125	2	2				308	10	1	9	-46	21	205	9	-23	28	210	105	5	11	2	4	13390	174	41	8	-25	18	105	52	409	39	54	2	-17	31	-1	1	-116	30	124	3						
23-May-12	37	37.52	8:54:25		ndbuka_5434	sample	125	2	3				312	10	4	9	-41	21	212	10	-8	28	117	103	2	12	11	4	13802	179	36	7	10	18	178	53	435	40	61	2	54	31	0	1	-107	30	126	3						
23-May-12	38	36.85	8:55:33		ndbuka_5434	sample	125	2	3				330	10	-15	9	-24	22	228	10	22	30	-22	100	-17	11	-1	4	13932	183	41	8	7	18	238	55	437	41	58	2	50	32	0	1	-88	30	122	3						
23-May-12	39	36.92	8:57:02		ndbuka_5434	sample	125	2	3				325	10	-3	9	-28	22	208	10	17	30	126	107	-19	11	0	4	13408	177	23	7	-5	18	178	53	411	39	57	2	45	31	1	1	-171	30	125	3						
23-May-12	40	37.78	8:59:46		ndbuka_5434	sample	125	Y1	1				620	14	-3	12	-57	22	365	13	1	32	277	119	-10	12	3	4	17511	218	80	9	-29	18	150	61	345	40	57	3	4	33	-5	1	-200	31	142	4						
23-May-12	41	37.05	9:02:00		ndbuka_5434	sample	125	Y1	1				659	15	-18	13	-30	22	341	13	1	31	151	112	5	13	4	4	17349	218	67	9	-45	19	160	61	375	41	53	2	-8	33	-3	2	-27	31	134	4						
23-May-12	42	37.99	9:03:12		ndbuka_5434	sample	125	Y1	1				587	14	-2	12	-15	22	353	13	-10	30	7	107	-11	12	-3	4	16887	213	60	9	-37	18	242	61	362	40	53	2	80	33	1	2	-139	31	135	4						
23-May-12	43	37.5	9:05:24		ndbuka_5434	sample	125	Y1	2				382	11	-12	9	-38	22	211	10	-10	28	40	102	27	12	-3	4	13964	180	38	7	9	18	39	52	292	36	58	2	-19	32	-2	1	-132	30	135	4						
23-May-12	44	37.96	9:06:58		ndbuka_5434	sample	125	Y1	2				368	11	-11	9	-29	22	206	10	53	32	190	111	-16	11	2	4	14106	187	39	8	-7	18	167	55	391	40	58	3	26	32	1	2	-81	31	132	4						
23-May-12	45	37.85	9:08:15		ndbuka_5434	sample	125	Y1	2				373	11	-8	9	-12	22	204	10	30	30	115	107	-18	11	2	4	13510	180	33	7	20	18	176	54	294	37	56	2	16	32	0	1	-72	30	133	4						
23-May-12	46	37.8	9:09:42		ndbuka_5434	sample	125	Y1	3				875	18	-8	15	-38	23	578	17	-15	32	199	117	26	14	-7	4	20395	247	114	10	16	19	176	67	472	45	45	2	60	33	-3	2	-73	31	162	4						
23-May-12	47	38.08	9:10:58		ndbuka_5434	sample	125	Y1	3				855	18	-24	15	-61	23	495	16	44	36	134	120	-1	14	2	5	22017	264	92	10	-33	19	225	71	446	46	55	3	-24	34	3	2	-130	32	149	4						
23-May-12	48	37.94	9:12:41		ndbuka_5434	sample	125	Y1	3				857	18	-22	15	-34	23	471	15	35	35	165	118	-6	14	8	5	21714	260	121	11	10	19	254	70	396	44	51	3	54	33	0	2	-103	31	161	4						
23-May-12	49	37.56	9:16:52		ndbuka_5434	sample	125	Y2	1				201	8	-8	7	-28	21	98	7	42	29	-58	97	-3	11	5	4	12189	162	31	7	-23	18	182	50	418	38	58	2	84	31	0	1	-163	29	110	3						
23-May-12	50	37.83	9:18:02		ndbuka_5434	sample	125	Y2	1				193	8	-1	7	-28	22	119	8	-13	27	145	105	-2	11	5	4	11762	161	16	7	-14	18	174	50	513	41	59	2	31	31	1	1	-91	30	111	3						
23-May-12	51	37.7	9:19:41		ndbuka_5434	sample	125	Y2	1				174	8	-4	7	-12	21	121	8	2	28	33	97	9	11	0	4	11972	162	19	7	-3	18	108	49	448	39	57	2	33	32	0	1	-88	29	105	3						
23-May-12	52	37.7	9:26:02		ndbuka_5434	sample	125	Y2	2				221	8	-10	7	-38	22	112	7	-10	28	129	105	-4	11	5	4	13497	177	14	7	-15	18	149	53	575	43	57	2	-3	32	0	1	-68	30	116	3						
23-May-12	53	37.86	9:27:07		ndbuka_5434	sample	125	Y2	2				212	8	0	7	-34	21	123	8	18	29	167	106	-22	11	-4	3	13342	175	22	7	-15	18	212	53	474	41	55	2	69	31	0	1	-88	29	105	3						
23-May-12	54	37.86	9:28:31		ndbuka_5434	sample	125	Y2	2				210	8	-1	7	-12	21	111	7	16	29	158	106	-4	11	-6	3	13380	176	18	7	-19	18	213	53	468	41	59	2	64	32	0	1	-152	30	109	3						
23-May-12	55	37.89	9:30:43		ndbuka_5434	sample	125	Y2	3				244	9	3	8	-14	21	141	8	1	28	73	102	3	11	4	4	13419	175	37	7	-1	18	110	52	500	41	56	2	32	32	0	1	-93	30	110	3						
23-May-12	56	37.85	9:32:48		ndbuka_5434	sample	125	Y2	3				247	9	-3	8	-32	21	136	8	7	29	121	105	2	11	0	4	13208	174	34	7	-37	18	148	52	403	39	58	2	76	31	0	1	-109	30	119	3						
23-May-12	57	37.43	9:34:21		ndbuka_5434	sample	125	Y2	3				259	9	-16	8	-39	21	132	8	-31	26	46	100	5	11	2	4	12736	165	14	6	-26	17	199	50	481	40	56	2	66	30	-1	1	-76	29	108	3						
23-May-12	58	37.8	9:35:51		ndbuka_5434	sample	125	Y3	1				290	10	-5	8	-42	22	252	11	-42	27	61	104	9	12	-2	4	13782	181	57	8	-52	18	109	53	418	40	53	2	35	32	1	1	-124	30	118	3						
23-May-12	59	37.85	9:37:05		ndbuka_5434	sample	125	Y3	1				326	10	-26	9	-59	22	246	11	104	34	112	109	2	12	-2	4	13597	181	44	8	9	18	212	55	404	40	55	2	-15	32	4	2	-75	31	124	4						
23-May-12	60	37.75	9:38:16		ndbuka_5434	sample	125	Y3	1				316	10	-22	9	-31	22	251	11	-6	28	-114	98	7	12	0	4	13477	178	33	7	-6	18	129	53	395	39	56	2	72	32	-1	1	-149	30	120	3						
23-May-12	61	37.61	9:39:41		ndbuka_5434	sample	125	Y3	2				271	9	-16	8	-11	21	246	10	4	29	172	107	-6	11	-2	4	13189	173	36	7	-14	18	100	51	443	40	62	2	15	31	1	1	-79	30	116	3						
23-May-12	62	37.74	9:41:20		ndbuka_5434	sample	125	Y3	2				270	9	-10	8	-69	21	244	10	33	30	-15	102	16	12	-3	4	13100	174	18	7	-24	18	86	51	443	40	57	2	30	32	0	1	-116	30	116	3						
23-May-12	63	37.82	9:42:36		ndbuka_5434	sample	125	Y3	2				267	9	-19	8	-4	21	213	10	18	29	39	101	2	11	3	4	13107	172	23	7	-35	18	43	50	492	41	57	2	-2	31	0	1	-159	29	116	3						
23-May-12	64	37.84	9:44:11		ndbuka_5434	sample	125	Y3	3				324	10	-14	9	-36	22	260	11	-28	28	150	107	-2	11	1	4	13265	176	32	7	15	18	46	51	361	38	58	2	4	32	0	1	-83	30	128	4						
23-May-12	65	37.7	9:45:16		ndbuka_5434	sample	125	Y3	3				315	10	-6	9	-25	22	265	11	31	31	191	110	28	12	0	4	13591	179	14	7	-7	18	103	53	434	40	55	2	52	32	1	1	-81	30	124	3						
23-May-12	66	38.05	9:46:52		ndbuka_5434	sample	125	Y3	3				325	10	-16	9	-35	22	234	10	-23	28	119	108	-17	11	1	4	12968	176	25	7	-1	18	186	53	480	42	53	2	4	32	2	2	-113	30	128	4						
23-May-12	67	38.36	9:51:45		ndbuka_5434	sample	115	1	1				2093	34	-60	25	-39	26	2217	40	42	50	332	161	47	23	-2	6	48940	557	284	17	-18	22	468	117	442	61	27	2	49	38	1	3	-111	36	223	6						
23-May-12	68	38.41	9:53:15		ndbuka_5434	sample	115	1	1				2268	36	-80	26	-14	26	2236	41	135	52	154	154	15	21	14	7	45706	527	349	18	-35	22	195	112	483	61	28	2	-28	38	8	3	-96	36	236	6						
23-May-12	69	38.43	9:54:35		ndbuka_5434	sample	115	1	1				2057	35	-109	26	13	27	2131	40	139	56	134	163	-25	22	3	7	57111	648	283	17	-38	22	399	128	407	64	28	2	83	39	1	3	10	37	232	6						
23-May-12	70	38.4	9:56:46		ndbuka_5434	sample	115	1	1	QCI			2001	34	-56	25	-20	26	2114	40	138	54	179	158	21	23	-4	6	50143	576	254	16	8	22	398	120	470	63	30	3	-9	39	0	3	-101	37	232	6						
23-May-12	71	38.46	9:58:24		ndbuka_5434	sample	115	1	1	QCI			1999	34	-56	25	5	26	2117	40	182	56	34	155	-4	22	-11	6	50867	587	256	17	-21	22	519	122	574	66	31	3	-38	39	-3	3	-84	38	245	6						
23-May-12	72	37.38	9:59:26		ndbuka_5434	sample	115	1	1	QCI			2090	36	-90	26	5	27	2150	41	-33	50	525	177	20	23	7	7	51681	606	276	17	30	23	288	123	406	63	27	3	61	40	3	3	-58	38	235	6						
23-May-12	73	38.53	10:00:31		ndbuka_5434	sample	115	1	1	QCI			2088	35	-56	26	33	27	2211	41	38	51	277	163	18	23	3	7	51372	595	270	17	-5	23	361	122	505	65	33	3	24	40	3	3	-70	38	244	6						
23-May-12	74	38.51	10:01:29		ndbuka_5434	sample	115	1	1	QCI			2068	35	-56	26	-16	27	2171	41	57	52	483	169	-40	21	-1	6	51187	591	260	17	13	23	436	122	462	63	28	2	92	39	-3	3	-78	37	251	6						
23-May-12	75	38.36	10:03:03		ndbuka_5434	sample	115	1	1	QCI			2050	34	-85	26	-9	27	2113	40	57	51	138	160	-45	21	4	7	50838	586	289	17	30	23	567	122	411	62	28	2	76	39	0	3	-47	37	240	6						
23-May-12	76	38.41	10:08:42		ndbuka_5434	sample	115	1	1	QCI			2006	34	-45	25	-39	26	2098	40	164	55	100	154	-28	21	-1	6	50351	579	272	17	4	22	339	120	446	63	29	2	43	39	6	3	-79	37	235	6						
23-May-12	77	38.27	10:12:53		ndbuka_5434	sample	115	1	2				2105	34	-89	25	-45	26	2237	41	102	51	127	153	13	22	7	7	48029	548	340	18	30	22	560	117	423	60	28	2	50	38	2	3	-84	36	226	6						
23-May-12	78	38.32	10:14:42		ndbuka_5434	sample	115	1	2				2018	34	-80	25	7	27	1965	38	258	60	455	170	7	23	1	6	54598	624	395	20	-16	22	495	126	600	68	29	3	124	39	-1	3	-30	37	229	6						
23-May-12	79	38.3	10:16:15		ndbuka_5434	sample	115	1	2				2045	34	-83	25	-21	26	2077	39	117	52	114	154	3	22	-1	6	49290	560	309	17	-28	22	408	117	561	64	25	2	13	39	0	3	-151	36	226	6						
23-May-12	80	38.24	10:17:42		ndbuka_5434	sample	115	1	3				2073	35	-84	26	10	26	2220	41	117	55	249	167	-15	22	3	7	55402	631	307	18	39	23	407	126	575	67	27	2	89	39	6	3	-75	37	235	6						
23-May-12	81	38.37	10:18:56		ndbuka_5434	sample	115	1	3				2186	36	-50	27	9	26	2196	41	68	52	28	154	-19	22	2	7	52094	597	325	18	-9	22	547	123	523	65	29	3	22	39	3	3	-26	36	223	6						
23-May-12	82	38.41	10:20:28		ndbuka_5434	sample	115	1	3				2195	36	-45	27	-28	26	2085	39	25	50	202	160	16	23	0	6	50964	584	302	18	-20	22	483	121	587	66	30	3	12	38	-2	3	-95	36	220	6						
23-May-12	83	37.86	10:26:15		ndbuka_5434	sample	115	2	1				478	12	-8	11	-49	22	388	13	5	31	-118	106	-11	12	-1	4	17968	220	66	9	-63	18	253	62	686	48	56	2	15	31	1	2	-170	30	116	3						
23-May-12	84	37.7	10:27:41		ndbuka_5434	sample	115	2	1				497	13	-28	11	-24	22	386	13	15	31	-49	103	-5	12	0	4	17644	214	41	8	-14	18	200	61	662	47	62	3	29	32	-1	1	-126	30	112	3						
23-May-12	85	37.87	10:28:56		ndbuka_5434	sample	115	2	1				488	12	-19	11	-76	22	382	13	26	31	19	107	-17	12	8	4	18338	220	46	8	-60	18	173	61	681	48	67	3	-8	31	1	2	-76	29	119	3						
23-May-12	86	37.93	10:30:31		ndbuka_5434	sample	115	2	2				463	12	-30	10	-65	21	324	12	-44	28	76	109	-10	12	3	4	18038	217	40	8	-71	18	174	61	619	46	60	2	38	31	0	2	-86	29	108	3						
23-May-12	87	37.77	10:31:58		ndbuka_5434	sample	115	2	2				466	12	-20	10	-14	22	336	12	-36	29	190	113	2	12	-5	4	18490	222	37	8	-94	18	96	61	700	48	67	3	16	31	3	2	-115	30	115	3						
23-May-12	88	37.79	10:33:31		ndbuka_5434	sample	115	2	2				481	12	-8	11	-9	22	316	12	-6	30	20	109	-8	13	-3	4	17861	218	41	8	-67	18	271	62	631	47	61	3	0	31	-1	1	-100	30	110	3						
23-May-12	89	38.04	10:34:58		ndbuka_5434	sample	115	2	3				506	13	-15	11	-23	21	388	13	-26	29	-27	107	-4	12	4	4	19406	227	42	8	-102	18	135	62	629	46	61	3	50	30	-2	1	-137	29	113	3						
23-May-12	90	37.84	10:36:23		ndbuka_5434	sample	115	2	3				491	12	-22	11	-29	21	342	12	-9	30	-18	104	-12	12	3	4	19267	227	47	8	-137	18	111	62	579	45	66	3	5	30	0	2	-135	29	106	3						
23-May-12	91	38.03	10:37:39		ndbuka_5434	sample	115	2	3				523	13	-34	11	-54	21	358	13	25	32	-53	108	3	13	-3	4	19547	233	49	8	-114	18	294	65	587	46	58	3	-67	30	0	2	-153	29	114	3						
23-May-12	92	38.57	10:38:56		ndbuka_5434	4315							258	9	9	8	-24	21	799	19	57	27	-6	75	-18	8	0	4	2556	68	92	9	-96	18	25	25	577	40	10	1	73	30	-1	1	-112	28	230	5						
23-May-12	93	38.16	10:40:47		ndbuka_5434	2586							434	13	-7	11	-72	25	309	13	257	54	485	168	6	20	5	5	50182	535	72	10	-5	21	494	112	707	64	51	3	3	36	-1	2	-130	34	86	3						
23-May-12	94	37.9	10:41:59		ndbuka_5434	2711							1178	22	69	18	-20	24	321	13	-1	37	411	136	-6	15	24	6	26231	312	103	11	57	20	275	80	462	49	110	4	-10	36	6	2	-106	34	254	5						
23-May-12	95	37.63	10:43:27		ndbuka_5434	Blank							-7	2	4	2	-54	20	-1	3	-45	17	-183	51	-10	6	-3	3	-24	12	-2	5	10	16	-1	8	-18	13	3	1	35	28	1	1	-164	26	4	1						
23-May-12	96	37.95	10:45:06		ndbuka_5434	sample	143	1					270	9	-16	8	-46	22	256	11	11	31	141	108	-4	13	-5	3	19228	228	27	7	-42	18	241	63	410	41	63	3	-22	31	1	1	-166	30	129	4						
23-May-12	97	37.93	10:46:22		ndbuka_5434	sample	143	1					261	9	-20	8	-60	22	210	10	-12	30	-29	105	-18	12	0	4	18560	224	37	8	-35	18	256	63	449	42	61	3	57	32	1	1	-193	30	127	4						
23-May-12	98	37.88	10:50:06		ndbuka_5434	sample	143	1					274	9	-10	8	-31	21	219	10	-53	28	231	113	-15	12	1	4	18548	221	26	7	-79	18	215	62	429	41	57	2	-42	31	0	1	-115	29	122	3						
23-May-12	99	38.18	10:51:29		ndbuka_5434	sample	143	2					435	12	-17	10	-53	23	287	12	38	33	98	112	-23	12	-6	4	17694	223	52	8	-17	19	229	63	307	40	58	3	-33	33	3	2	-151	31	147	4						
23-May-12	100	38.12	10:53:18		ndbuka_5434	sample	143	2					462	13	-32	11	-49	22	295	12	30	33	68	110	-10	13	-4	4	17872	224	55	8	-78	19	212	63	384	42	55	3	33	33	-1	1	-96	31	150	4						
23-May-12	101	38.21	10:54:39		ndbuka_5434	sample	143	2					438	12	-19	11	-25	23	300	12	17	33	238	116	-10	13	-3	4	17459	225	53	9	-32	19	219	64	291	40	57	3	3	34	3	2	-101	32	142	4						
23-May-12	102	37.83	10:56:26		ndbuka_5434	sample	143	3					364	11	-12	9	-12	22	307	12	-28	30	283	117	2	13	3	4	18532	225	52	8	-31	18	190	63	460	43	63	3	27	32	-1	1	-129	31	137	4						
23-May-12	103	37.85	10:57:37		ndbuka_5434	sample	143	3					356	11	-10	9	-42	22	303	12	2	31	27	109	2	13	1	4	17874	218	50	8	-47	18	205	61	424	42	61	3	-33	32	1	2	-144	30	135	4						
23-May-12	104	37.86	10:58:45		ndbuka_5434	sample	143	3					357	11	-11	9	-42	22	314	12	76	35	233	117	19	13	0	4	18391	225	41	8	-23	18	81	61	438	43	63	3	-12	32	1	2	-129	31	137	4						
23-May-12	105	38	11:02:00		ndbuka_5434	sample	106	1					531	14	-11	12	-49	23	494	16	4	34	119	119	9	14	-2	4	21939	264	83	10	-55	19	173	70	467	46	51	2	22	33	3	2	-111	32	166	4						
23-May-12	106	38.15	11:03:01		ndbuka_5434	sample	106	1					597	15	-36	12	24	23	431	14	-11	33	132	119	-7	14	-8	4	21552	261	83	10	3	19	306	71	589	49	48	2	34	34	0	2	-72	32	176	4						
23-May-12	107	38.37	11:04:12		ndbuka_5434	sample	106	1					554	14	-28	12	-53	24	416	15	36	36	-47	113	-35	13	0	4	21679	269	82	10	-18	20	298	73	534	49	54	3	48	35	-5	1	-92	33	165	4						
23-May-12	108	37.91	11:05:53		ndbuka_5434	sample	108	2					230	9	-13	7	-77	21	121	8	6	29	-90	101	11	12	2	4	13806	180	15	7	-64	18	95	53	830	49	59	2	39	31	-1	1	-97	29	133	4						
23-May-12	109	37.93	11:07:05		ndbuka_5434	sample	108	2					235	9	-3	8	-95	22	113	8	-60	27	148	109	26	12	1	4	13644	181	43	8	-23	18	31	52	786	49	65	3	23	32	-1	1	-127	30	136	4						
23-May-12	110	38.3	11:14:51		ndbuka_5434	sample	108	2					226	9	-12	8	-67	23	116	8	4	30	269	114	-10	12	-2	4	13339	183	21	7	-17	19	186	55	735	49	63	3	-67	33	1	1	-208	31	129	4						
23-May-12	111	37.87	11:17:28		ndbuka_5434	sample	109	2					298	10	-12	8	-57	21	168	9	25	29	-23	98	-5	11	1	4	11609	159	34	7	-52	18	176	49	514	41	63	3	-8	31	-1	1	-140	29	124	3						
23-May-12	112	37.36	11:18:53		ndbuka_5434	sample	109	2					281	9	-9	8	-51	21	168	8	47	29	-12	94	-6	10	0	4	11634	155	39	7	-37	17	87	47	382	37	62	2	7	30	1	1	-135	29	133	3						
23-May-12	113	37.88	11:19:59		ndbuka_5434	sample	109	2					285	9	2	8	-39	21	159	9	-22	27	287	108	-7	10	-7	3	12025	164	31	7	-64	18	84	49	383	38	59	2	2	31	1	1	-148	29	124	3						
23-May-12	114	38.16	11:21:26		ndbuka_5434	sample	111	2					166	7	-8	6	-24	22	136	8	1	28	-28	98	13	11	3	4	12120	165	13	6	-42	18	31	49	408	39	60	2	-36	31	0	1	-165	30	125	3						
23-May-12	115	37.63	11:23:03		ndbuka_5434	sample	111	2					176	7	-9	6	-14	21	141	8	8	28	162	104	3	11	5	4	12183	162	20	7	-26	18	119	49	312	35	61	2	17	31	1	1	-133	29	130	3						
23-May-12	116	38.02	11:24:11		ndbuka_5434	sample	111	2					165	7	-1	7	-41	21	137	8	45	30	-10	97	-6	11	-4	3	11425	159	21	7	-27	18	198	50	390	38	61	2	-9	31	-3	1	-125	29	126	3						
23-May-12	117	38.01	11:25:33		ndbuka_5434	sample	216	2					440	12	-13	10	-39	21	251	10	30	29	-80	96	-1	12	0	4	13131	172	37	7	-66	18	248	53	298	36	57	2	-13	30	0	1	-158	28	123	3						
23-May-12	118	37.84	11:26:55		ndbuka_5434	sample	216	2					457	12	-33	10	-61	21	247	10	-52	26	203	104	-19	10	1	4	13217	172	36	7	-84	17	156	52	470	40	51	2	56	30	0	1	-115	29	123	3						
23-May-12	119	37.8	11:28:06		ndbuka_5434	sample	216	2					431	12	-1	10	-29	21	230	10	33	29	-60	97	4	12	-1	4	12992	172	23	7	-76	18	178	52	320	36	51	2	59	30	1	1	-129	29	121	3						
23-May-12	120	37.74	11:30:47		ndbuka_5434	sample	133	Y1					159	7	-8	6	-12	22	125	8	0	28	75	104	14	12	2	4	13019	173	24	7	5	18	139	52	451	40	64	3	57	32	0	1	-145	30	114	3						
23-May-12	121	37.86	11:31:55		ndbuka_5434	sample	133	Y1					148	7	-1	6	-32	22	114	7	35	29	3	102	2	11	0	4	12351	165	27	7	-35	18	77	49	345	37	59	2	-2	31	1	1	-118	30	117	3						
23-May-12	122	37.84	11:32:53		ndbuka_5434	sample	133	Y1					150	7	-4	6	-65	22	122	8	11	29	83	105	-11	11	-4	3	13110	174	15	7	-11	18	96	51	322	37	60	2	-4	31	2	1	-115	30	122	3						
23-May-12	123	37.93	11:34:05		ndbuka_5434	sample	133	Y2					296	10	-13	8	-67	21	187	9	20	30	149	106	-6	11	-2	4	13938	181	28	7	-28	18	184	54	308	37	62	3	20	31	0	1	-132	29	125	3						
23-May-12	124	38.03	11:35:19		ndbuka_5434	sample	133	Y2					294	10	-4	8	-36	21	172	9	51	31	34	102	-17	11	1	4	14297	183	20	7	-50	18	223	55	389	39	61	2	53	30	1	1	-190	29	121	3						
23-May-12	125	38.32	11:36:34		ndbuka_5434	sample	133	Y2					298	10	4	9	-17	22	179	9	13	30	120	107	-32	11	-2	4	14825	191	39	8	-75	18	188	56	392	40	60	3	58	31	2	2	-129	29	131	4						
23-May-12	126	37.9	11:38:22		ndbuka_5434	sample	133	Y3					166	7	5	7	-69	22	216	10	-7	28	-90	98	-5	11	-4	3	13154	175	25	7	-19	18	164	53	391	39	57	2	9	31	0	1	-105	30	142	4						
23-May-12	127	38.01	11:39:22		ndbuka_5434	sample	133	Y3					155	7	5	6	-51	22	215	10	18	29	67	103	-27	10	0	4	13105	174	31	7	-25	18	215	53	482	41	62	3	67	31	1	1	-94	30	140	4						
23-May-12	128	38.11	11:40:43		ndbuka_5434	sample	133	Y3					196	8	-20	7	-41	22	232	10	88	33	209	108	7	12	1	4	13401	177	27	7	-37	18	158	53	333	38	61	3	50	31	-1	1	-136	30	137	4						
23-May-12	129	38.03	11:42:34		ndbuka_5434	sample	116	1	1				2002	32	-29	24	-8	25	1306	28	91	46	262	144	-16	19	-4	6	39557	445	243	15	-64	21	431	101	497	57	40	3	98	36	0	3	-82	34	217	5						
23-May-12	130	38.35	11:43:43		ndbuka_5434	sample	116	1	1				1958	31	-54	24	-27	24	1291	28	123	47	223	142	-9	19	5	6	38606	437	243	15	-46	21	426	100	545	58	44	3	57	36	6	3	-83	34	225	5						
23-May-12	131	38.85	11:45:12		ndbuka_5434	sample	116	1	1				1910	32	-82	24	-52	26	1277	29	-7	43	285	148	-26	18	-2	6	33553	412	247	16	-38	22	349	98	395	55	40	3	16	38	-4	2	-63	36	205	5						
23-May-12	132	38	11:47:09		ndbuka_5434	sample	116	1	2				1874	30	-38	23	-36	25	1326	28	106	46	333	145	5	18	24	7	37446	423	229	15	0	21	222	96	467	55	47	3	60	36	4	3	-127	34	226	5						
23-May-12	133	44.61	12:36:30	PASS																																																		
23-May-12	134	38.24	12:38:15		ndbuka_5434	5861							55	5	48	6	52	24	132	12	685	55	39	98	1205	40	4	4	13848	193	3050	50	58	20	98	57	159	38	18	2	128	35	3	2	-85	33	119	4						
23-May-12	135	37.58	12:39:27		ndbuka_5434	4315							260	9	11	8	3	22	800	19	38	27	112	82	5	9	2	4	2738	71	121	10	-59	18	-38	24	565	40	9	1	13	30	1	1	-79	29	250	5						
23-May-12	136	37.07	12:40:46		ndbuka_5434	2586							420	13	6	11	9	25	315	13	136	50	254	163	19	22	2	5	50401	544	67	10	5	21	708	115	750	65	47	3	1	37	2	2	-134	34	88	3						
23-May-12	137	38.02	12:42:15		ndbuka_5434	2711							1231	23	63	19	40	24	359	14	70	40	230	131	2	15	26	6	26099	311	119	11	64	20	196	79	428	49	105	4	51	36	3	2	-68	34	257	5						
23-May-12	138	37.16	12:43:54		ndbuka_5434	2711							1217	23	65	19	48	25	325	13	87	41	430	136	7	16	14	6	26263	317	91	10	106	21	231	80	432	50	114	4	28	37	3	2	-95	35	262	6						
23-May-12	139	37.14	12:45:22		ndbuka_5434	2710							5471	68	478	43	-12	26	6836	88	-13	51	120	163	22	21	76	12	37829	453	2810	53	9	22	-184	100	9688	197	127	4	22	39	8	4	-66	37	327	7						
23-May-12	140	37.65	12:46:56		ndbuka_5434	Blank							0	2	-1	2	-7	19	2	3	-52	17	-119	53	0	6	-5	3	9	14	-4	5	-5	16	-7	8	-1	14	1	1	47	28	0	1	-140	26	3	1						
23-May-12	141	37.92	12:48:27		ndbuka_5434	sample	116	1	2				1821	29	-25	22	-8	24	1364	28	49	43	235	140	-11	17	12	6	35190	398	233	15	-9	20	344	93	568	56	45	3	-18	35	2	3	-29	34	222	5						
23-May-12	142	38.22	12:49:38		ndbuka_5434	sample	116	1	2				1734	29	7	23	-17	25	1374	29	23	43	334	150	-1	19	0	6	36188	420	256	16	-57	21	343	98	383	53	47	3	50	36	-4	2	-49	35	232	5						
23-May-12	143	38.02	12:51:06		ndbuka_5434	sample	116	1	2				1847	30	-38	23	-33	24	1339	28	83	43	67	133	-19	17	4	6	34595	394	260	15	-37	20	324	93	464	53	48	3	0	35	-2	2	-43	34	226	5						
23-May-12	144	38.27	12:52:30		ndbuka_5434	sample	116	1	3				1982	32	-44	24	-44	25	1343	29	25	43	98	139	-6	18	8	6	38031	432	232	15	-63	21	355	99	488	56	51	3	20	36	0	3	-64	34	223	5						
23-May-12	145	38.07	12:53:42		ndbuka_5434	sample	116	1	3				1991	31	-88	23	6	25	1336	28	88	44	89	135	86	21	11	6	37020	417	224	15	-13	20	313	96	481	55	45	3	6	36	0	2	-115	34	220	5						
23-May-12	146	38.07	12:54:53		ndbuka_5434	sample	116	1	3				1937	31	-77	23	13	24	1308	28	21	42	11	137	4	18	-3	5	37522	423	218	14	-72	20	330	97	500	55	48	3	36	35	3	3	-142	33	230	5						
23-May-12	147	37.67	12:56:21		ndbuka_5434	sample	116	2	1				239	9	3	8	-31	22	145	8	13	30	202	109	0	12	1	4	16747	205	41	8	-23	18	182	58	434	41	63	3	-23	31	-2	1	-76	30	140	4						
23-May-12	148	37.9	12:57:30		ndbuka_5434	sample	116	2	1				236	9	-9	8	6	22	156	9	-6	30	36	104	11	13	-1	4	16970	209	9	6	-41	18	148	59	374	40	64	3	69	32	-1	1	-125	30	141	4						
23-May-12	149	38.31	12:58:51		ndbuka_5434	sample	116	2	1				239	9	-9	8	-46	22	160	9	64	34	109	110	-17	11	2	4	17304	217	27	7	-93	18	43	60	441	43	66	3	37	31	1	1	-123	30	133	4						
23-May-12	150	37.92	12:59:55		ndbuka_5434	sample	116	2	1				231	9	0	8	-47	22	141	8	-4	30	64	105	51	14	-1	4	16916	208	20	7	-79	18	162	59	382	40	64	3	-40	31	0	1	-123	30	141	4						
23-May-12	151	38.02	13:01:13		ndbuka_5434	sample	116	2	2				239	9	-7	8	-8	21	150	8	46	32	153	108	-5	12	4	4	16670	205	32	7	-57	18	242	59	356	39	63	3	43	31	1	1	-117	29	131	4						
23-May-12	152	37.77	13:02:34		ndbuka_5434	sample	116	2	2				239	9	-9	8	-6	22	150	8	99	34	76	104	-4	12	4	4	16488	205	25	7	-45	18	148	58	463	42	63	3	89	32	-1	1	-95	30	140	4						
23-May-12	153	37.44	13:08:49		ndbuka_5434	sample	116	2	2				240	8	3	7	-42	21	157	8	47	31	147	106	-18	11	2	4	17198	202	34	7	-74	17	215	58	465	41	65	2	-1	30	-1	1	-137	28	138	3						
23-May-12	154	37.56	13:10:48		ndbuka_5434	sample	116	2	3				238	8	-14	7	-37	21	152	8	23	30	135	105	-18	11	4	4	16841	201	13	6	-37	17	171	57	445	40	68	3	39	30	-2	1	-85	29	136	3						

Raw XRF Data
Shaprio Salvage Site, Festus, Missouri

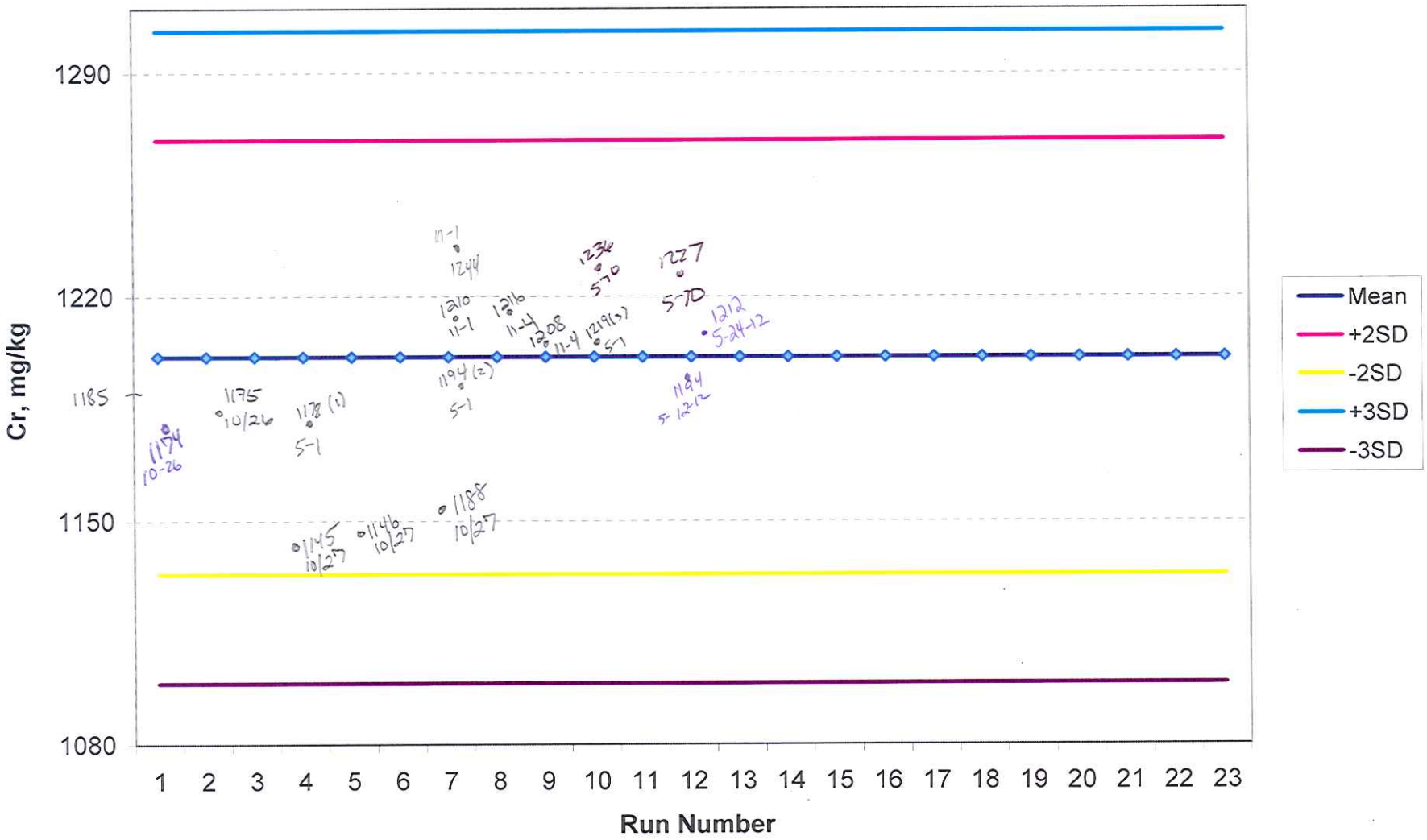
In-Situ XRF Data

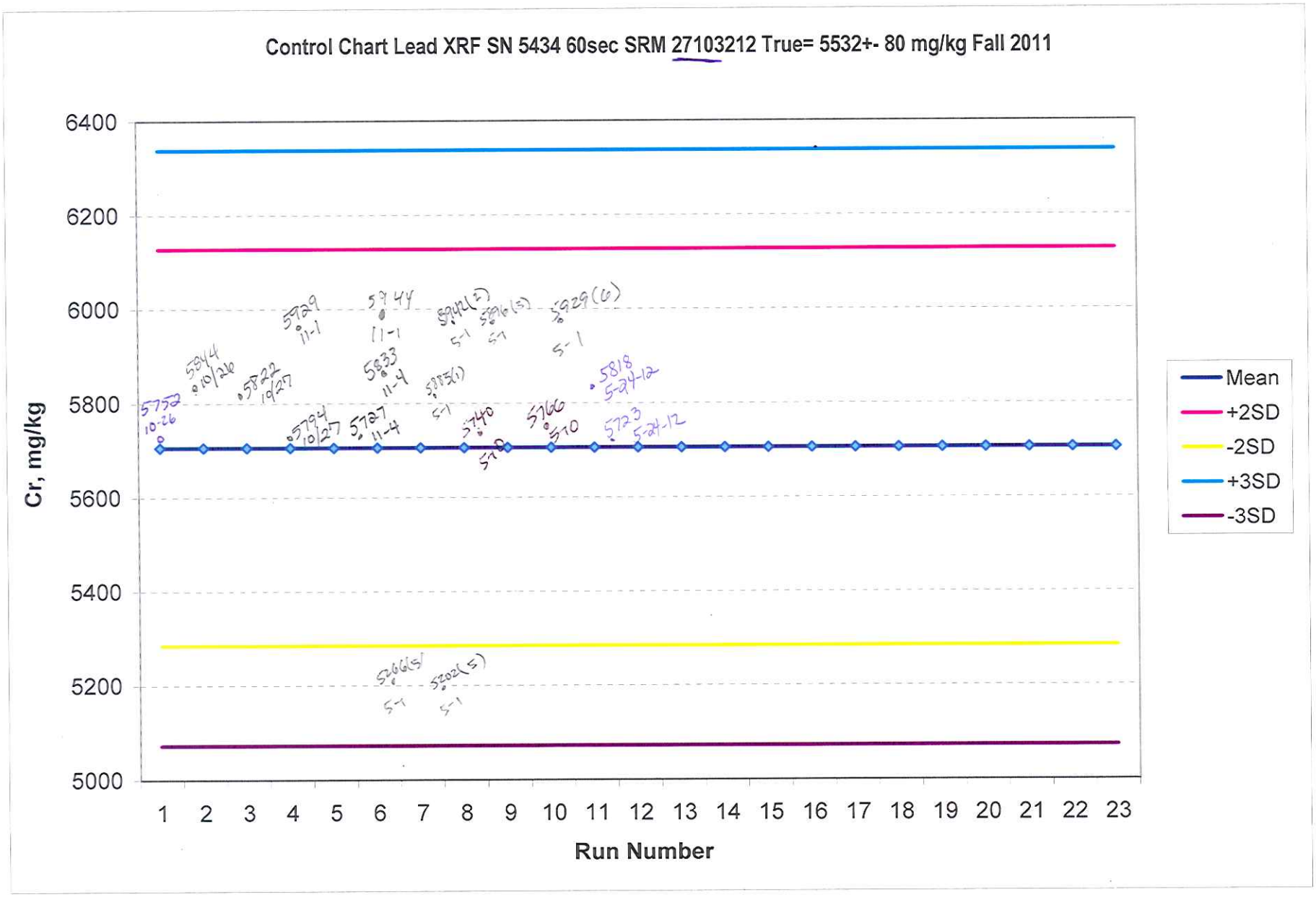
Date	Reading	LiveTime	Analyst	Loc_ID	Chk_Sampl	SU	Transect	Distance	Comment		Pb	Pb +/-	As	As +/-	Cd	Cd +/-	Zn	Zn +/-	Cr	Cr +/-	Ba	Ba +/-	Ni	Ni +/-	Hg	Hg +/-	Fe	Fe +/-	Cu	Cu +/-	Ag	Ag +/-	Co	Co +/-	LE	LE +/-	Mn	Mn +/-	Mo	Mo +/-	Rb	Rb +/-	Sb	Sb +/-	Se	Se +/-	Sn	Sn +/-	Sr	Sr +/-	Ti	Ti +/-	Zr	Zr +/-
23-May-12	155	37.9	13:12:20		ndbuka_5434	sample	116	2	3				212	8	4	7	6	22	142	8	48	32	28	106	28	13	1	4	17222	211	22	7	-36	18	47	58	479	43	65	3	-19	32	-2	1	-110	30	135	4						
23-May-12	156	37.97	13:13:21		ndbuka_5434	sample	116	2	3				217	8	-4	7	-41	22	138	8	-43	29	298	112	-14	12	1	4	16668	206	25	7	-72	18	202	59	401	40	61	3	26	31	2	1	-105	30	130	4						
23-May-12	157	37.85	13:17:44		ndbuka_5434	sample	124	Y1	1				228	9	-5	8	-57	22	143	8	48	32	84	110	0	12	-2	4	14635	191	29	7	18	19	99	55	441	42	68	3	-6	33	0	1	-125	31	142	4						
23-May-12	158	37.9	13:19:03		ndbuka_5434	sample	124	Y1	1				217	9	-3	7	-46	22	171	9	5	30	122	109	-1	12	-1	4	14973	193	32	7	7	18	148	56	541	44	65	3	-17	32	1	1	-198	31	149	4						
23-May-12	159	37.96	13:20:12		ndbuka_5434	sample	124	Y1	1				224	9	-11	7	7	22	173	9	8	31	293	113	-7	12	4	4	14597	190	30	7	-29	18	202	56	489	43	63	3	4	32	-2	1	-154	30	149	4						
23-May-12	160	37.93	13:21:37		ndbuka_5434	sample	124	Y1	2				195	8	-5	7	-38	22	146	8	4	30	212	111	-3	12	2	4	15499	198	22	7	-33	18	143	57	536	44	62	3	11	32	1	1	-129	30	150	4						
23-May-12	161	38.03	13:23:06		ndbuka_5434	sample	124	Y1	2				181	8	10	7	-30	22	144	8	-49	28	249	112	-3	12	3	4	15253	196	26	7	-27	18	211	57	589	45	65	3	70	32	0	1	-85	31	146	4						
23-May-12	162	37.83	13:24:28		ndbuka_5434	sample	124	Y1	2				192	8	-7	7	18	22	140	8	81	33	117	106	25	13	-1	4	15726	199	20	7	15	18	62	56	575	45	66	3	6	32	0	1	-124	30	155	4						
23-May-12	163	37.99	13:25:50		ndbuka_5434	sample	124	Y1	3				225	9	-12	7	-26	22	222	10	59	32	122	108	7	12	-3	3	13957	183	25	7	-47	18	101	53	354	38	65	3	-24	31	-2	1	-136	30	146	4						
23-May-12	164	37.89	13:27:56		ndbuka_5434	sample	124	Y1	3				220	8	-2	7	-41	21	209	10	-42	26	70	104	-9	11	2	4	13255	174	25	7	-19	18	160	52	375	38	61	2	-2	31	2	1	-179	29	140	4						
23-May-12	165	37.56	13:29:07		ndbuka_5434	sample	124	Y1	3				229	8	2	7	27	21	217	10	4	29	65	103	-12	11	2	4	14266	181	35	7	-18	18	159	53	437	40	64	3	43	31	1	1	-55	29	150	4						
23-May-12	166	37.67	13:31:04		ndbuka_5434	sample	124	Y2	1				275	9	-5	8	-11	22	264	11	-22	28	116	105	-3	11	-6	3	13556	176	33	7	12	18	185	53	420	39	68	3	0	32	0	1	-89	30	128	3						
23-May-12	167	37.63	13:32:17		ndbuka_5434	sample	124	Y2	1				268	9	6	8	-28	22	266	11	-18	28	-20	99	4	12	4	4	13456	177	28	7	-19	18	148	53	390	39	64	3	28	32	3	2	-138	30	124	3						
23-May-12	168	37.79	13:33:26		ndbuka_5434	sample	124	Y2	1				258	9	-14	8	-41	22	263	11	-34	26	109	100	-2	11	-5	3	11735	162	23	7	1	18	76	49	361	37	64	3	-12	31	-1	1	-56	30	115	3						
23-May-12	169	37.61	13:34:46		ndbuka_5434	sample	124	Y2	2				331	10	-19	9	-41	22	248	10	-31	27	66	104	-6	11	5	4	12400	168	36	7	5	18	127	51	515	42	63	3	-1	32	-1	1	-77	30	132	4						
23-May-12	170	38.09	13:36:19		ndbuka_5434	sample	124	Y2	2				319	10	11	9	-58	22	242	10	32	30	176	106	-6	11	-2	4	12410	168	37	7	-13	18	118	51	439	40	56	2	40	31	-1	1	-39	30	125	3						
23-May-12	171	37.83	13:37:20		ndbuka_5434	sample	124	Y2	2				320	10	-19	9	-8	22	211	10	2	29	207	109	-8	11	-2	4	12339	169	50	8	-32	18	143	51	479	41	60	3	21	32	-3	1	-83	30	123	3						
23-May-12	172	37.9	13:38:49		ndbuka_5434	sample	124	Y2	2	QCI			304	10	-7	9	-26	21	249	10	-38	27	195	105	9	11	-2	4	12294	167	43	8	-66	18	56	49	524	42	61	3	6	31	-1	1	-97	30	128	4						
23-May-12	173	37.86	13:39:43		ndbuka_5434	sample	124	Y2	2	QCI			327	10	-15	9	-75	22	249	11	15	29	80	103	1	11	-1	4	12050	166	36	7	-19	18	95	50	463	41	59	2	70	32	-1	1	-172	30	128	4						
23-May-12	174	38.15	13:40:38		ndbuka_5434	sample	124	Y2	2	QCI			333	10	-10	9	-36	22	239	10	-5	28	71	104	15	12	-1	4	12248	167	39	8	-39	18	111	50	446	40	58	2	-1	31	0	1	-128	30	128	4						
23-May-12	175	37.99	13:41:31		ndbuka_5434	sample	124	Y2	2	QCI			318	10	-10	9	1	22	241	10	-42	26	155	105	-1	11	-4	3	12033	165	30	7	-21	18	165	50	461	40	59	2	13	31	-1	1	-119	30	123	3						
23-May-12	176	37.93	13:42:21		ndbuka_5434	sample	124	Y2	2	QCI			336	10	-25	9	-12	22	238	10	30	30	189	107	22	12	-3	4	11894	164	48	8	-23	18	119	50	466	41	59	2	19	31	-2	1	-87	30	130	4						
23-May-12	177	37.81	13:43:23		ndbuka_5434	sample	124	Y2	2	QCI			318	10	-3	9	-48	21	228	10	-3	28	185	105	12	11	-1	4	12033	164	31	7	-43	18	-6	48	461	40	61	3	28	31	-1	1	-86	29	126	3						
23-May-12	178	37.87	13:44:15		ndbuka_5434	sample	124	Y2	2	QCI			327	10	-16	9	-33	22	238	10	47	31	197	106	-13	10	-3	4	12149	166	41	8	-37	18	85	50	418	39	60	2	8	32	0	1	-182	30	127	3						
23-May-12	179	38.76	13:45:48		ndbuka_5434	sample	124	Y2	3				235	9	1	8	-48	24	185	10	-7	30	32	110	-8	12	-8	3	10765	167	17	7	-14	20	150	52	328	39	55	3	49	35	-2	1	-52	33	114	4						
23-May-12	180	37.84	13:47:52		ndbuka_5434	sample	124	Y2	3				279	9	-17	8	-31	21	204	10	-18	27	71	104	11	11	-3	3	12031	164	36	7	-15	18	129	50	401	38	59	2	-5	31	1	1	-137	30	128	3						
23-May-12	181	37.62	13:49:15		ndbuka_5434	sample	124	Y2	3				268	9	-20	8	-2	21	188	9	-30	26	147	103	19	11	1	4	11929	161	32	7	-10	18	92	48	467	40	62	2	-52	31	-1	1	-155	29	128	3						
23-May-12	182	37.65	13:53:33		ndbuka_5434	sample	124	Y2	3				261	9	-2	8	-52	21	179	9	8	28	124	104	0	11	-2	3	11951	161	19	7	-17	18	202	50	380	37	58	2	-29	31	0	1	-140	30	128	3						
23-May-12	183	37.78	13:55:13		ndbuka_5434	sample	124	P1	1				415	12	-14	10	14	22	318	12	7	30	109	109	15	12	7	4	15201	195	73	9	8	18	24	55	431	41	54	2	-17	32	0	2	-65	30	133	4						
23-May-12	184	37.9	13:56:26		ndbuka_5434	sample	124	P1	1				415	12	-11	10	-28	22	307	12	25	31	84	109	9	12	5	4	14578	192	64	9	-32	18	145	56	485	43	58	3	40	32	-1	1	-120	31	137	4						
23-May-12	185	37.95	13:57:46		ndbuka_5434	sample	124	P1	1				437	12	-17	10	3	22	302	12	27	31	160	109	14	12	-5	4	15206	195	79	9	-9	18	90	56	476	42	58	2	28	32	0	1	-149	30	141	4						
23-May-12	186	37.8	14:00:13		ndbuka_5434	sample	124	P1	2				396	11	-13	10	-44	22	299	12	-3	29	99	106	-2	11	2	4	14689	189	57	8	-48	18	90	55	491	42	57	2	5	31	-2	1	-151	30	128	4						
23-May-12	187	37.72	14:01:33		ndbuka_5434	sample	124	P1	2				388	11	-14	9	-15	22	280	11	17	30	125	106	23	13	4	4	14238	184	63	8	-26	18	143	54	428	40	59	2	-9	32	0	1	-111	30	126	3						
23-May-12	188	37.97	14:03:02		ndbuka_5434	sample	124	P1	2				439	12	-27	10	-44	22	299	12	43	32	144	111	12	13	-3	4	15197	196	69	9	-24	18	189	57	456	42	56	2	10	32	1	2	-168	30	130	4						
23-May-12	189	37.95	14:04:22		ndbuka_5434	sample	124	P1	2				422	12	-15	10	-58	22	282	11	4	30	59	106	7	12	0	4	15258	195	54	8	-38	18	111	56	508	43	58	2	83	32	0	1	-149	30	136	4						
23-May-12	190	37.97	14:05:39		ndbuka_5434	sample	124	P1	2				415	12	-19	10	-73	22	301	12	21	30	-14	103	1	12	0	4	14887	192	73	9	-10	18	183	56	436	41	55	2	90	32	-1	1	-61	30	134	4						
23-May-12	191	37.92	14:06:58		ndbuka_5434	sample	124	P1	2				407	12	-7	10	-51	22	317	12	0	31	187	113	5	12	2	4	15307	199	72	9	-28	18	10	56	464	43	60	3	33	32	0	2	-44	31	130	4						
23-May-12	192	38.17	14:08:23		ndbuka_5434	sample	124	P1	2				404	12	-5	10	-16	22	290	12	-6	30	112	108	1	12	5	4	14561	191	68	9	-47	18	115	55	626	46	58	3	16	32	-2	1	-101	30	127	4						
23-May-12	193	38.29	14:09:30		ndbuka_5434	sample	124	P1	2				431	12	-20	10	-19	23	311	12	-14	31	291	116	-23	12	1	4	15166	203	67	9	-51	19	167	59	441	43	56	3	0	33	2	2	-184	31	120	4						
23-May-12	194	38.09	14:10:53		ndbuka_5434	sample	124	P1	2				433	12	-21	10	-11	22	286	11	-42	28	26	108	3	12	-2	4	15321	198	75	9	1	19	144	57	560	45	62	3	50	32	1	2	-76	31	133	4						
23-May-12	195	37.87	14:12:13		ndbuka_5434	sample	124	P1	2				425	12	-16	10	-48	22	289	11	-4	29	37	106	7	12	-1	4	15218	194	64	8	-47	18	145	56	570	44	61	3	74	31	2	2	-124	30	136	4						
23-May-12	196	37.05	14:13:38		ndbuka_5434	sample	124	P1	3				488	13	-23	11	-17	22	338	13	-19	29	3	106	14	13	0	4	15450	201	85	9	8	19	104	57	490	43	50	2	2	32	1	2	-163	31	140	4						
23-May-12	197	37.83	14:14:54		ndbuka_5434	sample	124	P1	3				485	13	-25	11	-45	22	339	12	6	30	209	110	3	12	-4	4	15177	195	99	10	-9	18	42	55	425	41	50	2	54	32	3	2	-126	30	133	4						
23-May-12	198	37.76	14:16:09		ndbuka_5434	sample	124	P1	3				503	13	-15	11	27	22	350	13	-32	29	212	114	11	13	4	4	15198	196	90	9	13	19	150	57	526	44	54	2	52	33	2	2	-113	31	137	4						
23-May-12	199	37.05	14:17:50		ndbuka_5434	sample	124	P1	3	QCI			470	13	-26	11	-61	22	331	12	49	32	-39	106	-3	12	-1	4	15388	201	84	9	-10	19	85	57	486	44	51	2	-12	33	2	2	-58	31	129	4						
23-May-12	200	36.88	14:18:53		ndbuka_5434	sample	124	P1	3	QCI			475	13	-8	11	-35	22	326	12	52	33	157	111	25	13	-1	4	15102	199	86	9	-14	19	144	58	483	44	57	3	25	33	0	2	-69	31	126	4						
23-May-12	201	38.18	14:19:44		ndbuka_5434	sample	124	P1	3	QCI			476	12	-25	11	-7	22	338	12	73	33	10	104	-7	12	5	4	15354	197	95	9	-12	18	141	57	439	42	54	2	46	32	0	2	-119	30	133	4						
23-May-12	202	37.89	14:20:42		ndbuka_5434	sample	124	P1	3	QCI			499	13	-41	11	-6	22	336	12	39	32	193	111	1	12	2	4	15042	195	93	9	3	18	127	56	433	42	50	2	26	32	-3	1	-139	30	131	4						
23-May-12	203	38.11	14:21:32		ndbuka_5434	sample	124	P1	3	QCI			482	13	-13	11	9	22	353	13	19	31	38	107	-18	11	4	4	15338	198	72	9	-34	18	177	58	393	40	57	3	14	32	0	2	-89	31	138	4						
23-May-12	204	37.99	14:22:25		ndbuka_5434	sample	124	P1	3	QCI			502	13	-31	11	-77	22	337	12	-51	27	-33	104	-5	12	0	4	15153	195	82	9	-30	18	240	58	412	40	54	2	-35	32	0	2	-100	30	131	4						
23-May-12	205	37.84	14:23:14		ndbuka_5434	sample	124	P1	3	QCI			475	12	-23	11	-32	22	345	13	-14	30	284	113	-1	12	4	4	15174	196	84	9	-27	18	57	56	480	43	55	2	4	32	0	2	-130	30	127	4						
23-May-12	206	37.79	14:24:33		ndbuka_5434	sample	124	2	1				252	9	-16	8	-38	21	191	9	-21	27	102	103	-12	10	1	4	12405	166	30	7	-72	18	71	49	408	38	60	2	25	31	-1	1	-139	29	129	3						
23-May-12	207	37.97	14:25:50		ndbuka_5434	sample	124	2	1				241	9	2	8	-55	21	197	9	33	29	165	103	0	11	3	4	12111	162	23	7	-60	17	109	49	377	37	58	2	-19	30	-1	1	-128	29	131	3						
23-May-12	208	37.85	14:26:56		ndbuka_5434	sample	124	2	1				249	9	-11	8	-50	21	228	10	38	30	154	105	-4	11	-2	3	12384	165	27	7	-41	18	136	50	467	40	58	2	28	31	0	1	-92	29	130	3						
23-May-12	209	36.78	14:28:12		ndbuka_5434	sample	124	2	2				233	9	-5	8	-61	21	175	9	-33	26	-25	99	-10	10	-3	3	11591	161	21	7	-34	18	71	48	405	38	56	2	-5	31	-1	1	-53	30	129	4						
23-May-12	210	37.92	14:29:31		ndbuka_5434	sample	124	2	2				246	9	-15	8	-9	21	184	9	33	28	-208	91	5	11	0	4	11610	160	29	7	-64	18	46	48	377	37	60	2	12	30	0	1	-92	29	127	3						
23-May-12	211	38.08	14:30:43		ndbuka_5434	sample	124	2	2				249	9	-21	7	-15	21	167	9	9	28	238	105	-5	11	1	4	11199	155	28	7	-31	18	189	49	364	37	61	2	13	31	0	1	-178	29	118	3						
23-May-12	212	38.16	14:32:03		ndbuka_5434	sample	124	2	3				264	9	0	8	-32	21	203	10	-29	27	-4	101	13	11	-4	3	12340	167	29	7	-29	18	92	50	383	38	60	2	51	31	0	1	-96	29	128	3						
23-May-12	213	37.91	14:33:14		ndbuka_5434	sample	124	2	3				286	9	-22	8	-4	21	241	10	-14	28	181	105	-1	11	-3	3	12312	166	35	7	-35	18	125	50	453	40	58	2	23	31	-1	1	-134	29	126	3						
23-May-12	214	37.95	14:34:24		ndbuka_5434	sample	124	2	3				305	10	-9	9	-32	22	237	10	33	30	123	107	24	12	-2	4	13080	175	35	7	-37	18	100	52	515	42	59	2	5	31	-3	1	-158	30	131	4						
23-May-12	215	37.75	14:35:39		ndbuka_5434	sample	124	4	1				474	12	-20	10	-34	22	344	12	45	32	184	110	7	12	0	4	15161	194	90	9	-34	18	171	56	447	42	55	2	24	32	0	2	-98	30	128	4						
23-May-12	216	37.95	14:36:50		ndbuka_5434	sample	124	4	1				482	13	-18	11	-28	22	357	13	22	31	18	104	9	12	-8	3	15420	197	78	9	-48	18	89	56	382	40	56	2	-5	32	1	2	-79	31	129	4						
23-May-12	217	37.86	14:38:10		ndbuka_5434	sample	124	4	1				475	12	-18	11	-6	22	365	13	-55	27	44	105	25	13	9	4	15409	196	76	9	-23	18	74	56	489	42	54	2	24	32	-2	1	-137	30	133	4						
23-May-12	218	37.72	14:39:22		ndbuka_5434	sample	124	4	2				428	12	-10	10	-12	22	301	12	-15	30	175	111	-2	12	-4	4	15777	200	78	9	-13	18	158	58	456	42	56	2	48	32	-1	1	-115	31	130	4						
23-May-12	219	38.08	14:40:23		ndbuka_5434	sample	124	4	2				428	12	-26	10	-1	22	262	11	-13	29	172	111	-4	12	-4	4	14396	189	68	9	-25	18	203	56	499	43	53	2	33	32	0	1	-129	30	125	4						
23-May-12	220	37.71	14:41:36		ndbuka_5434	sample	124	4	2				431	12	-9	10	-23	22	302	12	44	32	130	108	8	12	-9	3	15589	196	80	9	-1	18	194	57	569	44	59	2	-34	32	1	2	-86	30	135	4						
23-May-12	221	37.97	14:44:00		ndbuka_5434	sample	124	4	3				378	11	-1	10	-40	22	278	11	-62	27	269	112	-9	11	2	4	14722	190	69	9	-36	18	138	55	528	43	56	2	12	32	0	1	-134	30	132	4						
23-May-12	222	37.96	14:47:33		ndbuka_5434	sample	124	4	3				385	11	-28	9	-24	22	271	11	31	31	10	103	-5	12	3	4	14892	191	60	8	-43	18	133	55	535	43	53	2	30	32	1	2	-142	30	135	4						
23-May-12	223	38	14:49:49		ndbuka_5434	sample	124	4	3				409	12	-5	10	-41	22	273	11	7	30	-27	103	4	12	-6	3	14460	189	67	9	-19	18	109	55	500	43	56	2	14	32	-2	1	-142	30	125	4						
23-May-12	224	38.06	14:51:23		ndbuka_5434	sample	124	4	3				407	11	-30	10	-46	22	288	11	-1	29	101	106	19	12	0	4	14729	190	65	8	-38	18	109	55	472	42	54	2	35	32	1	2	-112	30	134	4						
23-May-12	225	37.88	14:52:30		ndbuka_5434	sample	124	4	3				396	11	-18	10	-1	22	285	11	4	30	-3	103	20	12	3	4	14449	189	85	9	-33	18	94	55	467	42	54	2	-49	32	1	2	-158	30	127	4						
23-May-12	226	37.91	14:53:42		ndbuka_5434	sample	124	4	3				388	11	1	10	-13	22	287	11	-64	27	202	108	-4	12	1	4	14451	188	65	9	-21	18	172	55	485	42	60	3	11	32	1	2	-101	30	125	4						
23-May-12	227	37.98	14:55:04		ndbuka_5434	sample	124	4	3				399	11	-19	10	-13	22	295	12	54	32	-79	104	-3	12	5	4	14604	190	55	8	0	18	157	56	465	42	57	2	-25	32	-3	1	-89	30	132	4						
23-May-12	228	37.78	14:56:10		ndbuka_5434	sample	124	4	3				387	11	-12	10	-29	22	292	11	-4	30	328	114	-1	12	-5	4	13732	182	65	9	-28	18	215	55	532	43	59	3	-50	32	0	2	-132	31	134	4						
23-May-12	229	38.51	14:57:07		ndbuka_5434	sample	124	4	3				382	12	-30	10	-30	23	278	12	8	31	68	107	-22	11	1	4	12985	183	68	9	-12	19	173	55	466	43	55	3	22	34	-1	1	-145	32	124	4						
23-May-12	230	38.28	14:58:26		ndbuka_5434	5861							51	5	57	6	39	24	125	11	713	56	-36	96	1116	39	0	4	13970	195	2957	50	74	20	128	58	156	38	20	2	64	35	3	2	-69	33	120	4						
23-May-12	231	38.67	14:59:31		ndbuka_5434	4315							247	9	-5	8	-37	21	839	19	-21	24	225	86	-2	8	-2	4	2665	69	93	9	-83	18	-18	24	614	41	14	2	16	30	0	1	-136	28	226	5						
23-May-12	232	38.26	15:00:46		ndbuka_5434	2586							440	13	-20	11	-29	24	320	13	217	51	-37	156	29	21	3	5	49400	529	55	9	-46	20	442	111	704	63	47	3	-15	35	1	2	-83	33	85	3						
23-May-12	233	37.88	15:02:08		ndbuka_5434	2711							1185	22	56	18	34	24	343	13	97	41	546	139	-45	14	20	6	25434	304	119	11	34	20	359	79	444	49	107	4	42	36	10	3	-74	34	257	5						
23-May-12	234	37.14	15:03:44		ndbuka_5434	2710							5926	76	505	47	53	28	7247	96	2	54	35	171	-17	21	79	12	39995	494	3038	58	46	23	-62	108	10432	214	130	5	131	41	-8	4	-57	39	365	8						
23-May-12	235	37.71	15:05:08		ndbuka_5434	Blank							3	3	-3	2	-1	20	3	3	-40	17	-229	46	-12	6	-2	3	21	15	-7	5	-38	16	-2	8	-18	13	1	1	39	28	1	1	-144	27	5	1						
24-May-12	2	38.43	13:09:26		wilder 5434	5861							61	5	49	6	51	24	139	11	710	55	-28	96	1231	40	-4	4	14128	193	2948	49	90	19	167	57	100	36	22	2	27	35	3	1	-94	33	117	4						
24-May-12	3	37.56	13:11:29		wilder 5434	4315							238	8	5	8	-49	20	787	18	16	25	82	76	-1	8	-8	3	2585	67	97	9	-75	17	23	24	470	36	11	1	42	29	-1	1	-133	27	202	4						
24-May-12	4	38.31	13:13:10		wilder 5434	2586							446	13	-22	11	-33	24	317	13	215	52	405	165	4	20	1	4	50214	531	67	10	-4	20	531	111	664	62	51	3	24	35	-1	2	-47	34	80	3						
24-May-12	5	36.94	13:14:55		wilder 5434	2711							1194	22	65	18	31	24	301	13	32	38	172	129	-22	15	20	6	25479	304	112	11	28	20	383	79	376	47	105	4	41	35	6	2	-82	33	250	5						
24-May-12	6	36.34	13:16:16		wilder 5434	2710							5818	74	483	46	-28	27	7256	95	8	54	248	178	9	22	68	12	39282	482	2953	56	48	23	-36	106	10005	207	127	5	-3	40	-2	4	-93	38	357	7						
24-May-12	7	36.76	13:18:14		wilder 5434	Blank							-3	2	0	2	-33	19	3	3	-6	19	-143	52	-7	6	3	3	-32	12	-2	5	-23	16	16	9	-29	13	0	1	31	28	1	1	-107	26	4	1						
24-May-12	8	37.24	13:20:18		wilder 5434	sample	Sed	1					1340	24	-19	19	-7	24	843	22	76	41	174	130	-8	16	2	5	27790	331	296	16	0	20	361	84	541	53	43	3	27	36	-2	2	-94	34	153	4						
24-May-12	9	37.11	13:21:23		wilder 5434	sample	Sed	1					1499	26	-101	20	-13	24	754	20	-24	37	161	128	44	17	-4	5	28256	335	300	16	-13	20	50	82	623	55	51	3	45	35	1	2	-72	33	152	4						
24-May-12	10	37.17	13:22:46		wilder 5434	sample	Sed	1					1480	26	-87	20	-5	24	693	19	167	44	2	124	-3	16	-13	4	27816	329	345	17	15	20	292	83	467	51	38	2	28	35	3	2	-101	33	146	4						
24-May-12	11	36.94	13:24:10		wilder 5434	sample	Sed	2					454	13	13	11	-61	23	485	16	-3	37	377	133	-14	15	-2	4	29442	333	97	10	-6	19	275	82	1109	63	35	2	-72	35	2	2	-22	33	170	4						
24-May-12	12	37.08	13:25:24		wilder 5434	sample	Sed	2					362	11	-12	10	-35	23	380	14	8	35	20	113	-13	14	-3	4	24826	291	68	9	47	20	248	75	1079	61	32	2	14	35	-1	1	-55	33	167	4						
24-May-12	13	37.14	13:26:39		wilder 5434	sample	Sed	2					460	13	-12	11	-39	23	516	16	52	39	-72	118	-3	15	5	4	30668	344	62	9	-2	20	163	83	1102	64	40	2	58	35	1	2	-69	33	167	4						
24-May-12	14	64.46	13:27:58		wilder 5434	sample	Sed	2					422	9	0	8	-48	18	409	11	27	28	132	93	6	12	-1	3	27611	241	70	7	3	15	202	60	1024	46	33	2	27	26	0	1	-77	25	158	3						
24-May-12	15	38.21	13:29:58		wilder 5434	sample	Sed	2					406	12	6	11	-20	23	482	15	19	38	249	129	-16	15	1	4	31511	350	71	9	-13	19	280	84	1161	65	33	2	51	34	1	2	-115	33	159	4						
24-May-12	16	37.23	13:32:10		wilder 5434	sample	Sed	2					382	12	-14	10	-57	24	487	16	-13	36	392	131	9	15	-5	4	27625	320	75	10	40	20	173	80	1092	63	34	2	49	35	-3	1	-104	33	156	4						
24-May-12	17	37.24	13:34:05		wilder 5434	sample	Sed	3					549	14	-24	12	-23	23	451	15	23	35	182	115	-3	14	-3	4	23044	273	95	10	-53	19	159	71	669	51	48	2	-13	33	-1	2	-115	31	182	4						
24-May-12	18	37.33	13:35:13		wilder 5434	sample	Sed	3					592	14	-18	12	-35	23	443	15	16	34	63	111	9	14	0	4	22907	271	55	9	-30	19	162	71	833	55	48	2	4	33	1	2	-186	31	177	4						
24-May-12	19	37.15	13:36:27		wilder 5434	sample	Sed	3					476	13	-32	11	-16	22	438	14	-9	32	94	107	10	13	-1	4	21494	255	48	8	-29	19	56	67	618	49	38	2	23	32	0	2	-122	30	165	4						
24-May-12	20	38.22	13:37:43		wilder 5434	sample	Sed	3					518	13	-13	11	-67	23	537	16	-17	34	176	116	6	15	-3	4	25540	293	61	9	-44	19	253	75	756	54	45	2	22	33	-1	2	-48	31	179	4						
24-May-12	21	37.24	13:39:09		wilder 5434	sample	Sed	3					553	14	-13	12	1	23	453	15	1	35	66	115	-12	15	5	5	24242	289	57	9	-2	20	289	76	648	52	45	2	-32	34	-1	2	-135	32	189	5						
24-May-12	22	37.32	13:40:35		wilder 5434	sample	Sed	3					488	13	-12	11	-65	23	420	14	-69	31	101	113	16	15	-6	4	22883	274	64	9	4	19	153	72	718	52	51	2	14	33	0	2	-134	31	180	4						
24-May-12	23	36.96	13:42:03		wilder 5434	sample	Sed	4					339	11	-10	9	-15	22	1191	24	-1	32	272	114	-3	13	-1	4	17084	214	22	7	-28	18	172	61	570	46	41	2	-28	33	-3	1	-89	31	113	3						
24-May-12	24	36.86	13:43:14		wilder 5434	sample	Sed	4					297	10	-3	9	-60	22	1088	23	30	31	-101	100	-2	12	-4	4	16374	205	28	7	-32	18	79	58	629	46	40	2	-2	32	-1	1	-81	31	97	3						
24-May-12	25	36.89	13:44:19		wilder 5434	sample	Sed	4					279	9	-11	8	-43	22	1091	22	-39	28	143	106	-12	12	-4	4	15918	200	28	7	-65	18	188	58	664	47	32	2	36	32	0	1	-108	30	92	3						
24-May-12	26	37.25	13:45:45		wilder 5434	sample	Sed	Dup					1466	26	-69	20	-43	24	745	20	19	38	237	128	-4	15	7	5	25772	313	317	16	-5	20	179	79	584	53	41	2	90	35	1	2	-110	33	145	4						
24-May-12	27	37.36	13:46:50		wilder 5434	sample	Sed	Dup					1452	26	-40	20	-30	24	787	21	20	38	76	127	11	17	-2	5	25924	315	314	16	-20	20	386	82	478	51	44	3	37	35	0	2	-69	33	144	4						
24-May-12	28	38.37	13:47:56		wilder 5434	sample	Sed	Dup					1431	25	-70	19	14	24	766	20	8	38	146	126	6	16	-8	5	27292	323	286	15	-7	20	286	82	557	52	43	2	0	35	1	2	-45	33	153	4						
24-May-12	29	37.33	13:48:50		wilder 5434	sample	Sed	Dup					1459	25	-77	20	-22	24	740	20	-29	36	59	121	9	17	-4	5	26058	314	288	16	-49	20	349	81	586	53	39	2	111	35	-1	2	-58	33	148	4						
24-May-12	30	38.2	13:49:41		wilder 5434	sample	Sed	Dup					1416	25	-45	19	-33	24	764	20	52	39	156	127	2	16	-1	5	26137	312	280	15	-22	20	308	80	637	54	45	3	24	35	0	2	-80	33	142	4						
24-May-12	31	38.27	13:50:31		wilder 5434	sample	Sed	Dup					1446	25	-69	20	-18	24	755	20	71	40	104	123	-7	16	4	5	26686	319	265	15	3	20	298	81	612	54	41	2	-47	36	0	2	-110	33	150	4						
24-May-12	32	37.43	13:51:25		wilder 5434	sample	Sed	Dup					1414	25	-55	20	10	24	793	21	26	38	-23	121	19	17	3	5	26459	317	274	15	-31	20	260	81	562	52	44	3	-18	35	1	2	-105	33	149	4						
24-May-12	33	38.37	13:52:16		wilder 5434	sample	Sed	Dup					1460	25	-92	20	33	24	781	21	1	37	-10	121	12	16	-1	5	26870	320	271	15	-16	20	172	80	555	52	41	2	24	35	1	2	-132	33	155	4						
24-May-12	34	37.38	13:53:07		wilder 5434	sample	Sed	Dup					1491	26	-100	20	-9	24	760	21	-9	37	122	124	11	16	6	5	26976	325	276	15	5	20	192	82	627	55	40	2	39	36	-1	2	-95	34	155	4						
24-May-12	35	38.17	13:54:37		wilder 5434	2711							1212	22	54	18	9	24	319	13	73	39	114	128	-29	15	14	6	25825	307	105	11	80	20	293	79	479	50	111	4	3	36	7	2	-92	34	264	6						
24-May-12	36	37.57	13:55:41		wilder 5434	5861							61	5	57	6	55	24	152	12	682	55	-179	88	1126	39	-2	4	13660	192	2940	49	35	20	187	58	129	37	23	2	20	35	4	2	-146	33	114	4						
24-May-12	37	37.55	13:56:44		wilder 5434	2710							5723	72	472	45	24	26	6870	90	-40	51	277	171	-76	19	62	11	37326	456	3000	56	42	23	262	105	10067	204	125	4	-1	39	1	4	-95	37	355	7						
24-May-12	38	38.34	13:57:51		wilder 5434	2586							430	13	-15	11	-2	24	297	13	171	50	250	162	-34	19	8	5	49571	527	82	10	1	21	563	111	527	59	49	3	-16	36	1	2	-159	34	88	3						
24-May-12	39	37.68	13:59:04		wilder 5434	4315							249	9	11	8	-67	21	792	19	36	26	-11	75	0	8	-3	4	2086	61	72	9	-93	18	-13	22	567	40	11	1	77	30	1	1	-63	28	221	5						
24-May-12	40	38.08	14:00:09		wilder 5434	Blank							7	3	-6	2	-29	19	0	3	-42	17	-223	47	-4	6	-2	3	-5	13	-11	4	-44	16	-12	7	-37	12	3	1	40	27	1	1	-130	26	2	1						

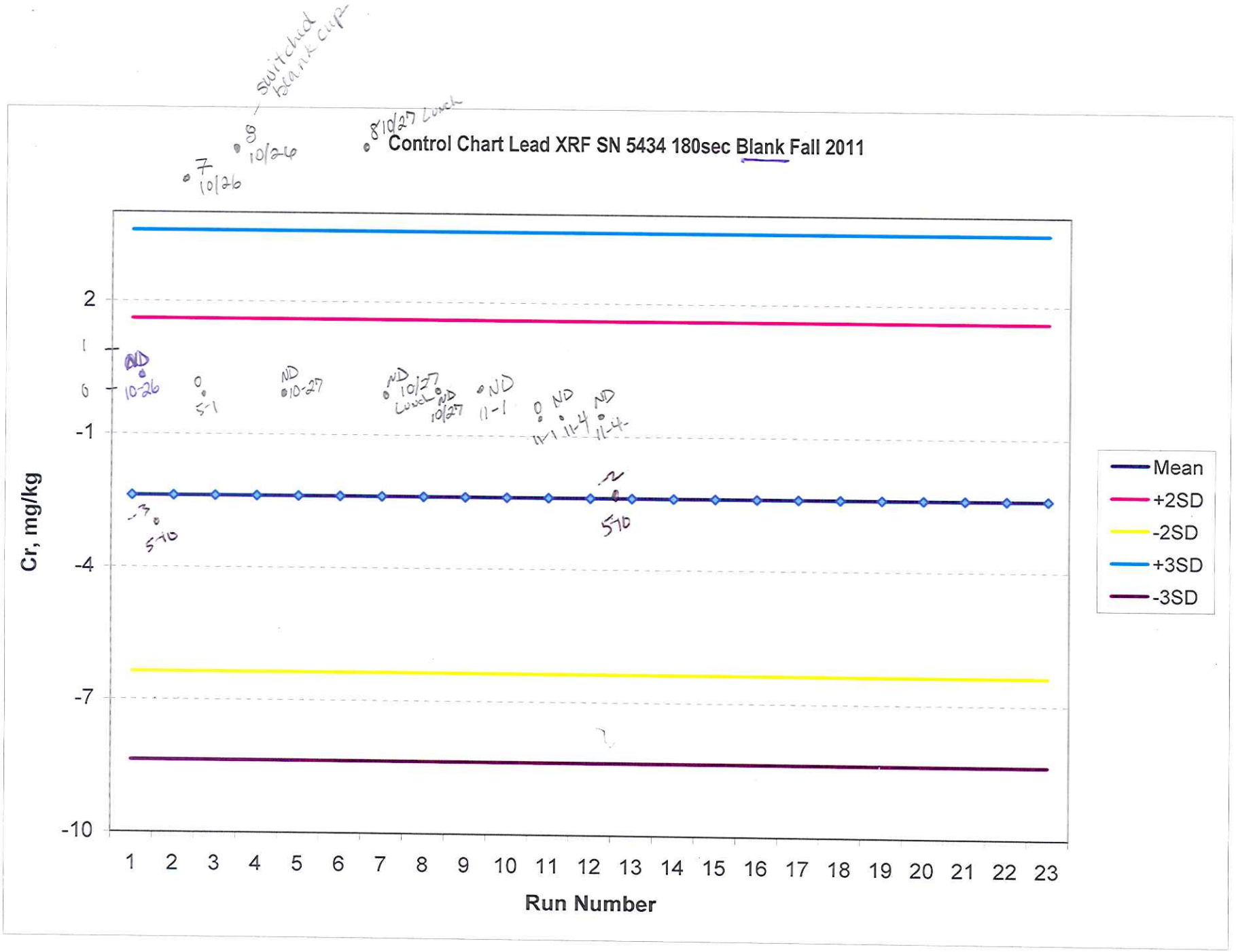
UPDATED 12-6-11

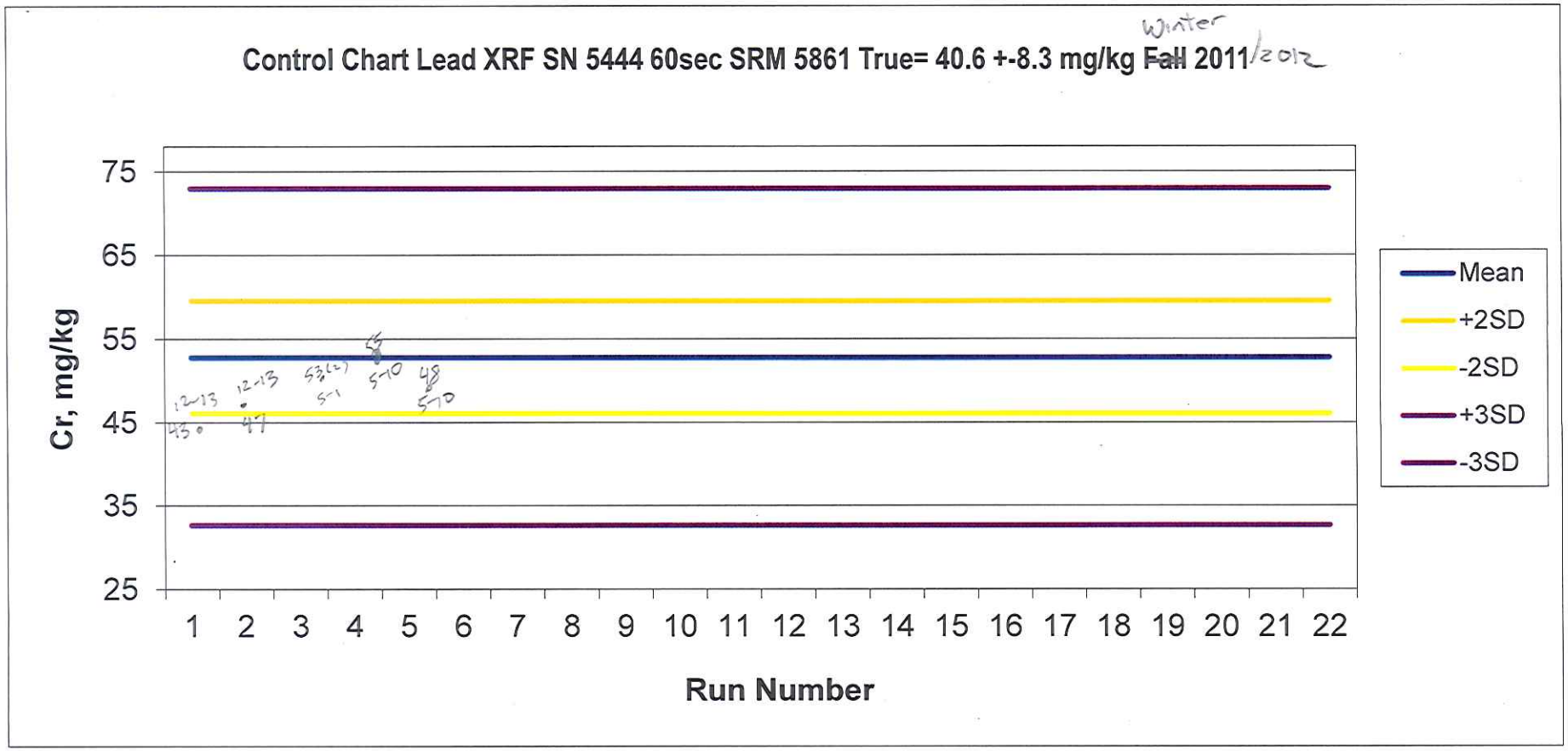


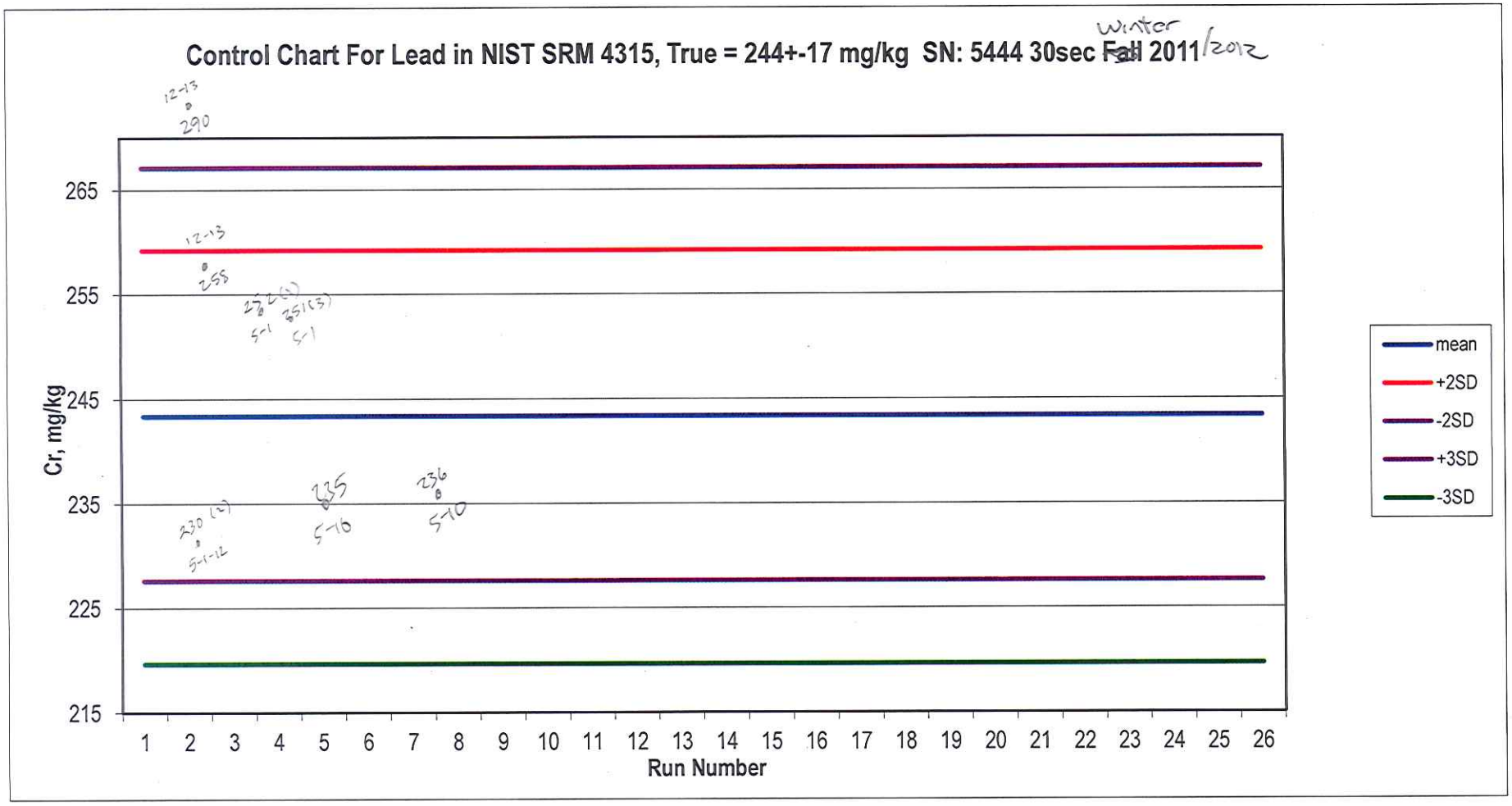
Control Chart Chromium XRF SN 5434 60sec SRM 2711 True= 1162+- 31 mg/kg Fall 2011

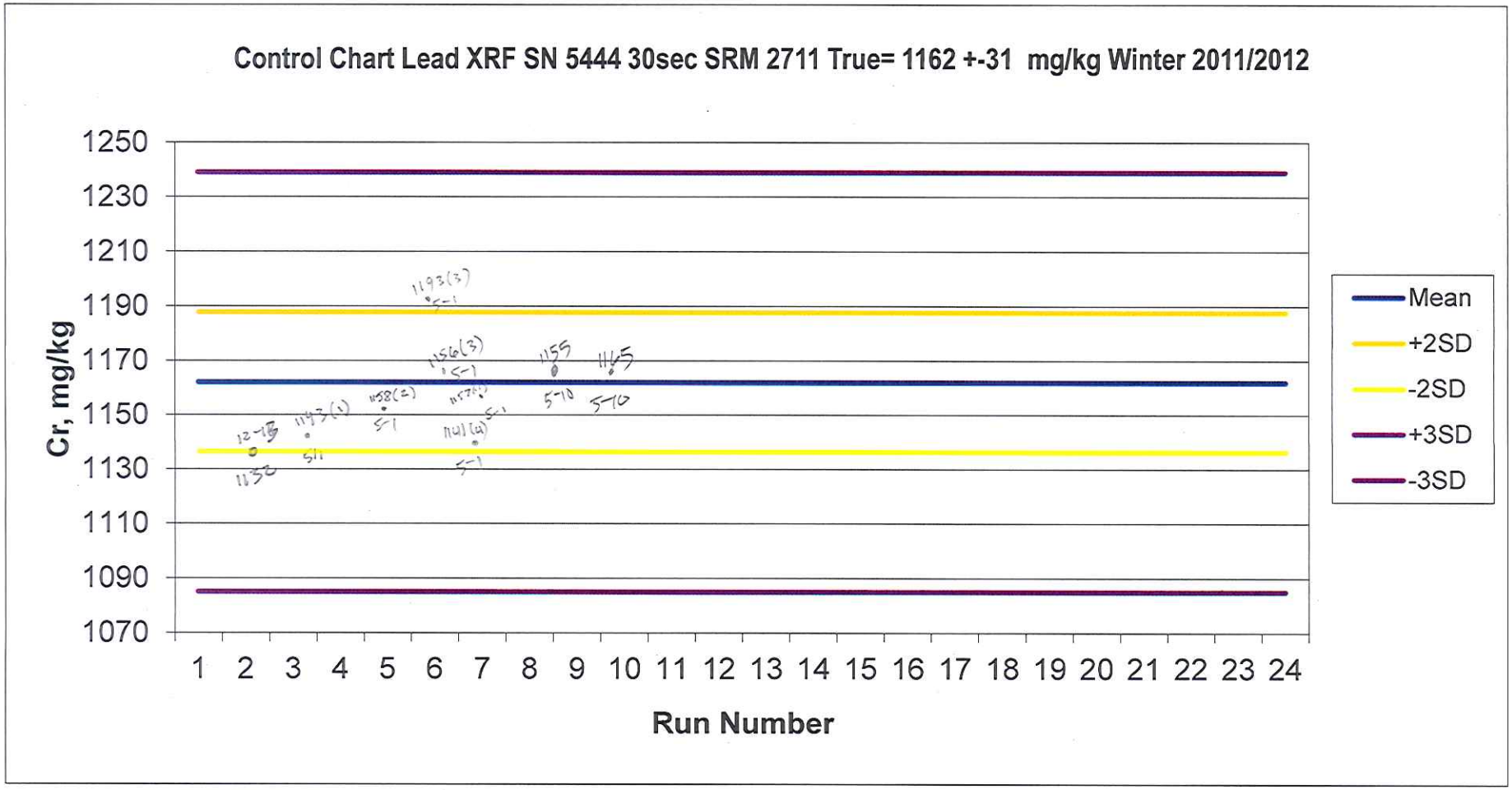


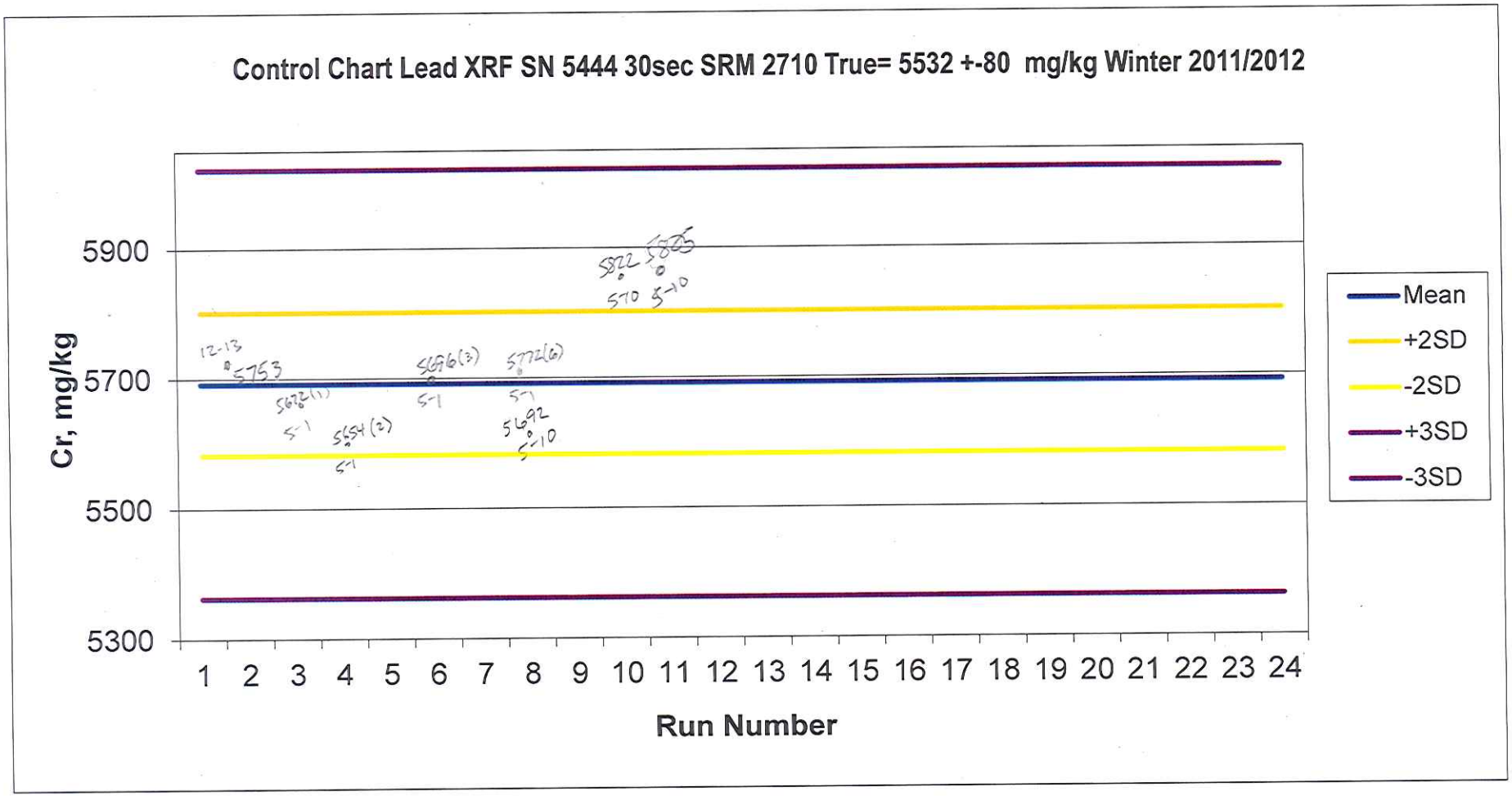

Control Chart Lead XRF SN 5434 60sec SRM 27103212 True= 5532+- 80 mg/kg Fall 2011
Cr, mg/kg
6400
6200
6000
5800
5600
5400
5200
5000
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Run Number
Mean
+2SD
-2SD
+3SD
-3SD

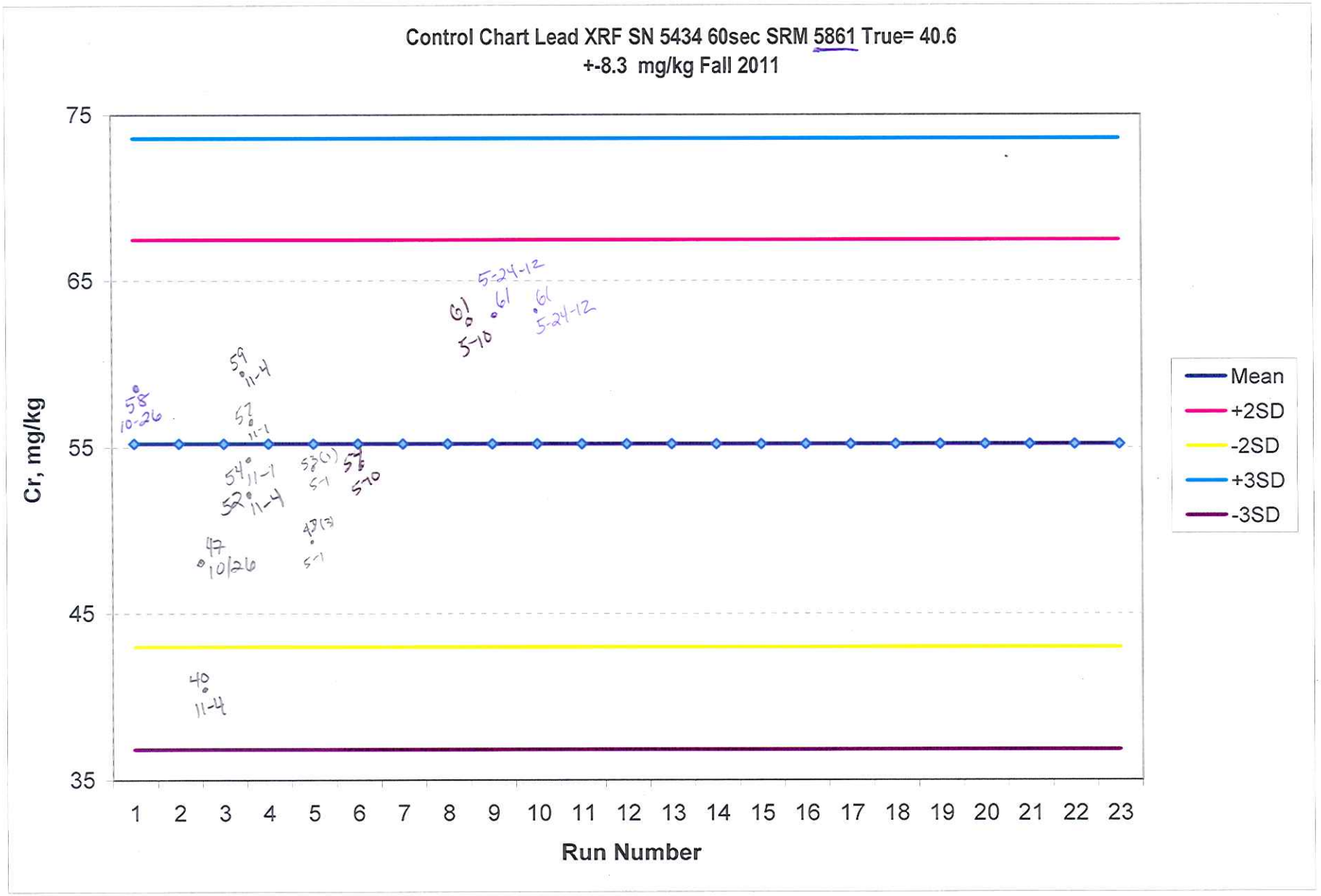

Control Chart Lead XRF SN 5434 180sec Blank Fall 2011
Cr, mg/kg
Run Number
2
1
0
-1
-4
-7
-10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Mean
+2SD
-2SD
+3SD
-3SD
switched blank cup
7 10/26
8 10/26
8 10/27 Lunch
ND 10-26
0 5-1
ND 10-27
ND 10/27 Lunch
ND 10/27
ND 11-1
0 ND 11-1 11-4
ND 11-4
-3 5-10
5-10


Control Chart Lead XRF SN 5444 60sec SRM 5861 True= 40.6 +-8.3 mg/kg ~~Fall~~ Winter 2011/2012
Cr, mg/kg
75
65
55
45
35
25
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
Run Number
Mean
+2SD
-2SD
+3SD
-3SD

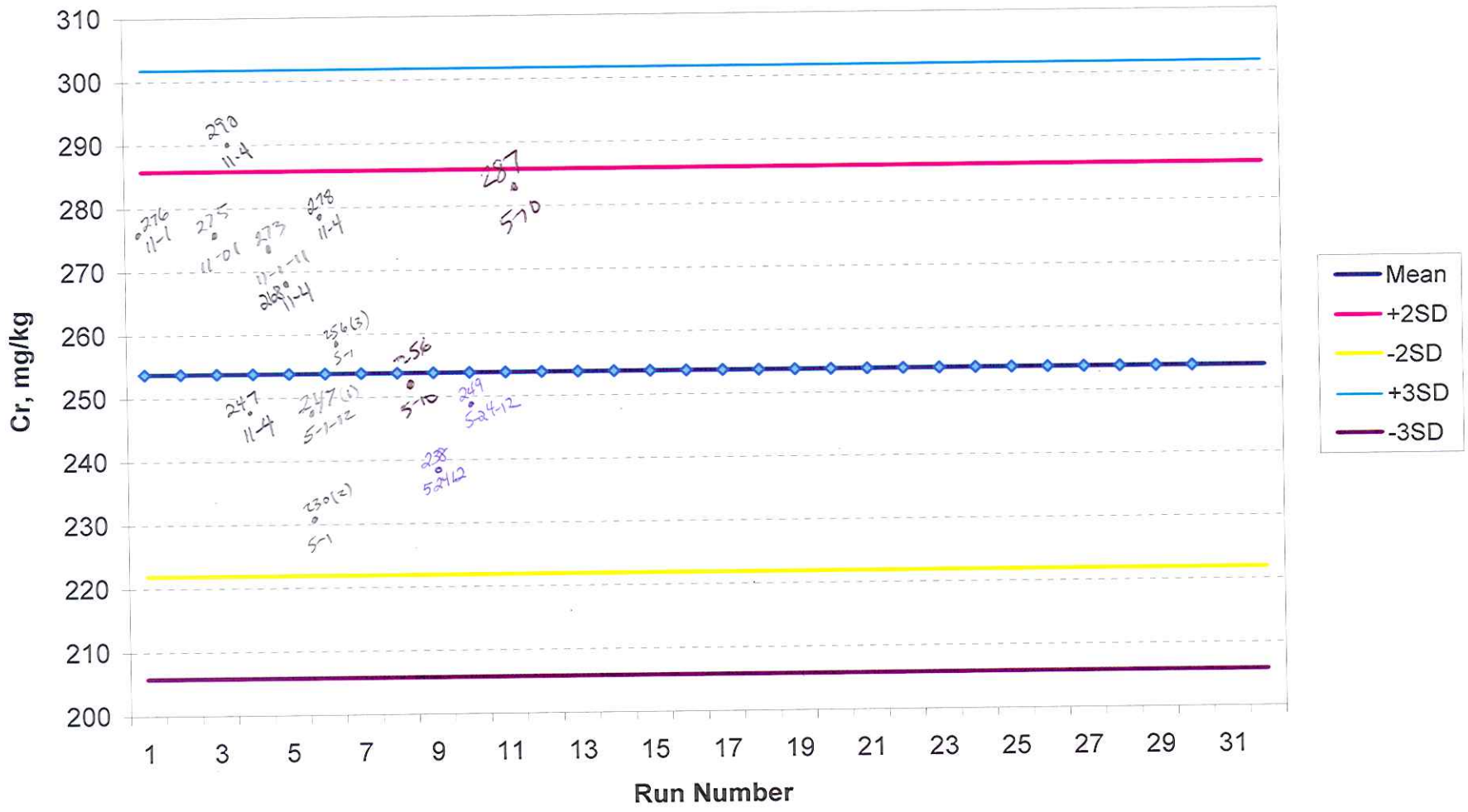

Control Chart For Lead in NIST SRM 4315, True = 244+-17 mg/kg SN: 5444 30sec ~~Fall~~ Winter 2011/2012
12-13
290
12-13
258
252(2)
5-1
251(3)
5-1
230 (2)
5-1-12
235
5-10
236
5-10
265
255
245
235
225
215
Cr, mg/kg
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
Run Number
mean
+2SD
-2SD
+3SD
-3SD

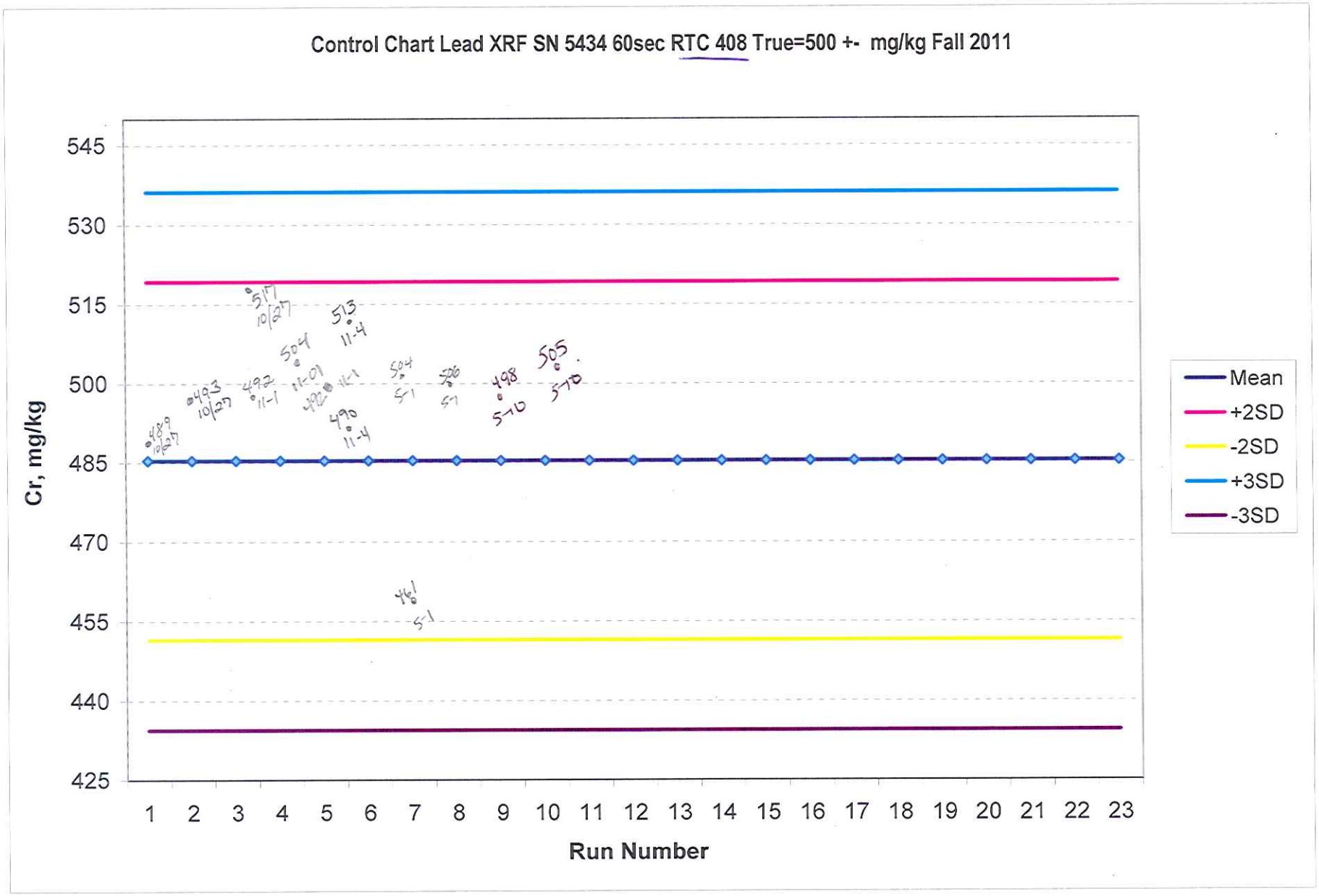

Control Chart Lead XRF SN 5444 30sec SRM 2711 True= 1162 +-31 mg/kg Winter 2011/2012
Cr, mg/kg
1250
1230
1210
1190
1170
1150
1130
1110
1090
1070
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Run Number
Mean
+2SD
-2SD
+3SD
-3SD


Control Chart Lead XRF SN 5444 30sec SRM 2710 True= 5532 +-80 mg/kg Winter 2011/2012
Cr, mg/kg
5900
5700
5500
5300
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Run Number
Mean
+2SD
-2SD
+3SD
-3SD


Control Chart Lead XRF SN 5434 60sec SRM 5861 True= 40.6
+-8.3 mg/kg Fall 2011
Cr, mg/kg
75
65
55
45
35
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Run Number
Mean
+2SD
-2SD
+3SD
-3SD
58 10-26
59 11-4
57 11-1
54 11-1
52 11-4
47 10/26
40 11-4
58(1) 5-1
57 5-10
48(3) 5-1
61 5-10
61 5-24-12
61 5-24-12

Control Chart For Lead in NIST SRM 4315, True = 244+- 17 mg/kg SN: 5434 60sec Fall 2011




Control Chart Lead XRF SN 5434 60sec RTC 408 True=500 +- mg/kg Fall 2011
Cr, mg/kg
545
530
515
500
485
470
455
440
425
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Run Number
Mean
+2SD
-2SD
+3SD
-3SD

APPENDIX E
REFERENCES

(includes only references not readily available online – urls provided in table of references at end of report narrative)

State Public Health Laboratory
101 North Chestnut, Jefferson City, MO 65101
573-751-3334 FAX 573-522-4032

AIHA LAP, LLC
ACCREDITED LABORATORY
ENVIRONMENTAL LEAD
ISO/IEC 17025:2005
www.aihaaccreditedlabs.org
LAB #100006

Jeremiah W. (Jay) Nixon
Governor
Margaret T. Donnelly
Director
Bill Whitmar
Laboratory Director

Environmental Lead Report

Report ID # 133

Client ,

DOB

, MO

Parent

Submitter # 10
FOX, MOLLY
JEFFERSON COUNTY HEALTH DEPARTMEN
PO BOX 437
HILLSBORO, MO 63050

Sample ID	DateReceived	Acceptable	DateCollected	Date Analyzed
EL11Dec160641	12/16/2011	☑	12/14/2011	12/27/2011

Sample Location:
1302 KENNER ST
CRYSTAL CITY, MO 63019

Comments
BLANK

SampleType	Sample Description	ResultLeadLevel
Wipe	1	**<20 µg Lead/Wipe**

Sample ID	DateReceived	Acceptable	DateCollected	Date Analyzed
EL11Dec160642	12/16/2011	☑	12/14/2011	12/27/2011

Sample Location:
1302 KENNER ST
CRYSTAL CITY, MO 63019

Comments
FLOOR ENTRACE

SampleType	Sample Description	ResultLeadLevel
Wipe	2	**<20 µg Lead/Wipe**

Sample ID	DateReceived	Acceptable	DateCollected	Date Analyzed
EL11Dec160643	12/16/2011	☑	12/14/2011	12/27/2011

Sample Location:
1302 KEENER ST
CRYSTAL CITY, MO 63019

Comments
WINDOW SILL 2X18 IN ENTRANCE ROOM

SampleType	Sample Description	ResultLeadLevel
Wipe	3	**<20 µg Lead/Wipe**

Date Issued: Wednesday, December 28, 2011 ☐ Amended Report Trans Checked By: JB

Play ground Child Care

Environmental Lead Report for ,

Sample ID	DateReceived	Acceptable	DateCollected	Date Analyzed
EL11Dec160644	12/16/2011	☑	12/14/2011	12/27/2011

Sample Location:
1302 KENNER ST
CRYSTAL CITY, MO 63019

Comments
FLOOR BY BACK DOOR IN CRAFT ROOM

SampleType	Sample Description	ResultLeadLevel
Wipe	4	**<20 µg Lead/Wipe**

Sample ID	DateReceived	Acceptable	DateCollected	Date Analyzed
EL11Dec160645	12/16/2011	☑	12/14/2011	12/27/2011

Sample Location:
1302 KEENER ST
CRYSTAL CITY, MO 63019

Comments
WINDOW SILL IN CRAFT ROOM 2X18

SampleType	Sample Description	ResultLeadLevel
Wipe	5	**<20 µg Lead/Wipe**

Sample ID	DateReceived	Acceptable	DateCollected	Date Analyzed
EL11Dec160646	12/16/2011	☑	12/14/2011	12/27/2011

Sample Location:
1302 KENNER ST
CRYSTAL CITY, MO 63019

Comments
FLOOR BY BACK DOOR IN STORAGE ROOM

SampleType	Sample Description	ResultLeadLevel
Wipe	6	**74 µg Lead/Wipe**

Sample ID	DateReceived	Acceptable	DateCollected	Date Analyzed
EL11Dec160647	12/16/2011	☑	12/14/2011	12/27/2011

Sample Location:
1302 KENNER ST
CRYSTAL CITY, MO 63019

Comments
GRAVEL/SOIL IN PLAYGROUND

SampleType	Sample Description	ResultLeadLevel
Soil	7	**270 µg Lead/Gram Dry Soil**

Date Issued: Wednesday, December 28, 2011 ☐ Amended Report Trans Checked By: JB

RCRA SITE INVESTIGATION REPORT
SHAPIRO BROTHERS, INC. SCRAP YARD SITE
Order Number: 110915002
Jefferson County
Festus, Missouri

Site Information:

ESP LDPR Code:	FERCA	ESP Lead:	Sean Counihan
Job Code:	NJ12SHAP	Investigation Date:	9/14/2011

Introduction:
The Missouri Department of Natural Resources (MDNR), Hazardous Waste Program (HWP), requested the MDNR, Environmental Services Program (ESP) to conduct sampling as part of an investigation at a site identified as the Shapiro Brothers Inc. Scrap Yard Site. The HWP was represented at the site by Evan Bryant. Vickie Heberlie, Jim Hessel, and Darren Bernat from the MDNR St. Louis Regional Office were on hand to conduct a multi-media inspection. Sampling was conducted in order to determine if any hazardous material was present and possibly moving off site.

The site is Shapiro Brothers, Inc. located at 9th Street and Delmar Street, Festus, Missouri. Shapiro Brothers, Inc. is a scrap metal processor. Shapiro Brothers is a demolition contractor, Union Pacific often uses them to dismantle out of service rail cars, and they offer transportation services to their clients for scrap metal materials. All metals are brought to their location to be processed with a 450 horsepower shear or 3500 horsepower shredder. The metal is processed and compressed into sizes that are accepted by a steel mill for recycling. All non-metal items are separated out (auto fluff) during the process and taken to a landfill. This site has come under question because of some complaints, to the City of Festus by nearby residents, of the dust the site creates. The City collected a composite soil sample from street debris surrounding the site (9th, Delmar, and Vine). The results from analysis on that sample failed TCLP for lead. The site latitude and longitude are 38.23001°, -90.39035°. Information in this report will be used in determining the need for additional actions at the subject site.

Field Methods:
Site access was granted from the owner of the property at the time of inspection. Samples were collected from nine locations throughout the site (six soil samples and three surface/storm water samples). Sampling data and observations were recorded in a bound field logbook. New stainless steel spoons were used to collect each surface soil grab sample and the containers for water sample collection were immersed directly into the water/stream. Appropriate containers and chemical preservation techniques were employed during field activities. Eight-ounce glass jars were used to collect soils for analysis of seven RCRA metals including arsenic (As), barium (Ba), cadmium (Cd), chromium (Cr), lead (Pb), selenium (Se) and silver (Ag). Surface water run off was collected in two – one liter amber glass bottles for oil and grease analysis, and one – 250ml Nalgene bottle for total metals analysis for seven RCRA metals including arsenic (As), barium (Ba), cadmium (Cd), chromium (Cr), lead (Pb), selenium (Se) and silver (Ag). All samples received a numbered label and the corresponding number entered onto a chain-of-custody form indicating the description, location, date and time of collection, and analytes requested. Samples were stored and transported on ice in coolers. ESP field personnel maintained custody of the samples until relinquishing them to a sample custodian at the state's environmental laboratory within the Environmental Services Program in Jefferson City for analyses.

Observations:
The weather was cloudy and rainy with temperatures around 70 degrees Fahrenheit. The inspection team arrived on site around 0900 hours. The site owner, Greg Shapiro, was not on site and requested that we start our inspection upon his arrival. Mr. Shapiro arrived around 0945. His brother Dave Shapiro, along with NPN Environmental Consultants Dave Rowe and Brian Gregory were also present for the inspection. The inspection started with a meeting with the owners, followed by a walkthrough of the facility property where sampling locations were determined.

Sampling began just before 1200 hours. The facility installed a truck wash station at the main entrance to the facility several weeks ago. This station would wash the tires and undercarriage of vehicles entering and leaving the site. The water from the wash would be circulated through the wash jets with new water being introduced periodically to keep the system with a certain volume of water. All solid particles that were removed during the wash settled to the bottom. A series of scrapers attached to a conveyor belt removes the solids to a container on the exterior of the machine. This waste will be mixed with other material to be sent to a landfill. Since this is a new system this waste stream has not been tested or characterized. No discharged material from this machine has been disposed of up to the time of sampling. Sample 1 (1106418) was a surface water sample from the wash station. This sample was brown in color and very turbid. It also appeared oily. Sample 2 (1106419) was a soil/sediment sample collected from the discharge container of the wash station. This sample was gray to light brown in color, and had a variety of particle sizes from silt to gravel. The property has a storm water drain near the

truck wash station. It collects storm water that flows down hill from the operations part of the facility, as well as overspray from the wash station, and drainage from the front entrance. A small creek flows along the east border of the facility property. This storm drain has an outfall to the creek at the south east corner of the property. Sample 3 (1106420) was collected from this outfall. This location is near the junction of the railroad crossing on 9th Street. The sample was mostly clear with a slight amount of turbidity. Sample 4 (1106421) was a soil sample collected from the center of the road (near the entrance) north of the truck wash and north of the non-ferrous building. The sample was silt/gravel mixture with a light brown to caramel color. Traveling north through the facility two staging piles are encountered. The first one encountered contains mainly industrial type metals, which is processed through one machine. The other pile, mainly automobiles, is processed through a different machine. A soil sample was collected from an open spot at the bottom of the first pile along the edge. This was Sample 5 (1106422). This sample had dark brown to black color. Another roadway soil sample, Sample 6 (1106423), was collected about midway through the facility property (heading north) along the main road on the west side of the property. This sample had the same color and texture\composition as Sample 4. The north end of the property has another entrance (off Vine Street), for use by Shapiro Brothers trucks only. A soil sample, Sample 7 (1106424), was collected from the middle of the roadway at this entrance. As with the other two roadway samples, this sample was a light brown/caramel color with varying composition. The auto fluff pile was at the north east end, down gradient, and directly across from the Vine Street entrance. This is the pile of all non-metal materials that was separated out of the shredders. They load this material in large trucks and haul to a landfill daily. Sample 8 (1106425) was a soil sample collected from exposed soil in this area. The soil was variable in color from black to light brown and had auto fluff mixed with the top layer of soil. Another storm water outfall exists on the north side of the facility fence. This is storm water runoff from the roadways. It once drained onto facility property, but because of interference with operation, Shapiro Brothers took it upon themselves to bury the line and run it underground to the stream. There is a small junction that is exposed where the line comes out from the street and where Shapiro Brothers put in a drain. A water sample was collected from this outfall, Sample 9 (1106426). Sample 9 was clear and colorless. Refer to sampling locations map and site photographs (Appendix C).

Results:

The analytical results are attached to this report as Appendix A. Chain of custody records are attached as Appendix B. Site photographs and a sampling locations map are attached as Appendix C. Field notes are attached as Appendix D.

Submitted by: _____

Sean Counihan
Environmental Specialist
Field Services Unit
Environmental Services Program

Approved by: _____

Eric Sappington
Unit Chief
Field Services Section
Environmental Services Program

BA:smc

c: Evan Bryant, HWP

Appendix A

Shapiro Brothers, Inc. Scrap Yard Site
Analytical Results

Missouri Department of Natural Resources
Environmental Services Program

Order ID 110915002 **Program, Contact:** HWP Dennis Hanson

Report Date: 10/03/2011 **LDPR/JobCode:** FERCA / NJ12SHAP

Sample: AB59474

Customer #: 1106418

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN **Affiliation:** ESP **Collect Date:** 9/14/2011 12:05:00PM
Entry Point:
Sample Comment: Grab sample #1106418, collected from Wash Station.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Total Recoverable	Arsenic	10.8		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Barium	775	09	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	23.9	06	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Chromium	26.9		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Lead	2610	09	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Selenium	2.08	05	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Silver	0.51	06, 05	µg/L	12,636	SW 846 6020
Field Dissolved Oxygen	Field Dissolved Oxygen	4.42		mg/L		SM 4500-O-G
Field pH	Field pH	8.26		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	794 uS/cm				SM 2510
Field Temperature	Field Temperature	19.5 C				EPA 170.1
Oil And Grease	Oil And Grease	<2	ND	mg/L	12,653	1664

Sample: AB59475

Customer #: 1106419

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN **Affiliation:** ESP **Collect Date:** 9/14/2011 12:10:00PM
Entry Point:
Sample Comment: Grab sample #1106419, collected from sediment pile that is removed from Wash Station. Has not been previously classified by facility - is a new system and new waste.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	11000	06	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Barium	504000		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	18600		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Chromium	63900		µg/kg	12,631	SW 846 6010B

Sample: AB59475

Customer #: 1106419

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:10:00PM
Entry Point:
Sample Comment: Grab sample #1106419, collected from sediment pile that is removed from Wash Station. Has not been previously classified by facility - is a new system and new waste.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Lead	2220000		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	7110	09	µg/kg	12,631	SW 846 6010B
Percent Moisture	Percent Moisture	20.2		%	12,557	Infrared Drying

Sample: AB59476

Customer #: 1106420

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:23:00PM
Entry Point:
Sample Comment: Grab sample #1106420 collected from Storm Water outfall on southeast end of property near 9th and railroad crossing.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Total Recoverable	Arsenic	8.65		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Barium	323	09	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	30.9		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Chromium	22.2		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Lead	2110	09	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Selenium	2.14	05	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Silver	0.56	05	µg/L	12,636	SW 846 6020
Field Dissolved Oxygen	Field Dissolved Oxygen	5.10		mg/L		SM 4500-O-G
Field pH	Field pH	7.99		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	1023 uS/cm				SM 2510
Field Temperature	Field Temperature	19.4 C				EPA 170.1
Oil And Grease	Oil And Grease	<2	ND	mg/L	12,653	1664

Sample: AB59477

Customer #: 1106421

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:34:00PM
Entry Point:
Sample Comment: Grab sample #1106421 collected from roadway north of truck wash entrance just north of non-ferrous building.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	8640		µg/kg	12,631	SW 846 6010B

Sample: AB59477

Customer #: 1106421

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:34:00PM
Entry Point:
Sample Comment: Grab sample #1106421 collected from roadway north of truck wash entrance just north of non-ferrous building.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Barium	420000		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	19200		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Chromium	67300		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Lead	2180000		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	872		µg/kg	12,631	SW 846 6010B
Percent Moisture	Percent Moisture	14.9		%	12,557	Infrared Drying

Sample: AB59478

Customer #: 1106422

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:50:00PM
Entry Point:
Sample Comment: Grab sample #1106422 collected from first staging pile from entrance northwest side of pile near base.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	18700		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Barium	697000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	44800		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Chromium	204000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Lead	5860000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	6830	09	µg/kg	12,631	SW 846 6010B
Percent Moisture	Percent Moisture	14.7		%	12,557	Infrared Drying

Sample: AB59479

Customer #: 1106423

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:47:00PM
Entry Point:
Sample Comment: Grab sample #1106423 collected from midway through main roadway between two main staging piles.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	8480		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Barium	437000	09	µg/kg	12,631	SW 846 6010B

Sample: AB59479

Customer #: 1106423

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:47:00PM
Entry Point:
Sample Comment: Grab sample #1106423 collected from midway through main roadway between two main staging piles.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Cadmium	18500		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Chromium	49100	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Lead	2210000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	5780		µg/kg	12,631	SW 846 6010B
Percent Moisture	Percent Moisture	26.7		%	12,557	Infrared Drying

Sample: AB59480

Customer #: 1106424

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:03:00PM
Entry Point:
Sample Comment: Grab sample #1106424 collected from north end of main roadway near Vine Street entrance.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	8360		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Barium	367000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	16000		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Chromium	72400	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Lead	1590000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	1730		µg/kg	12,631	SW 846 6010B
Percent Moisture	Percent Moisture	19.3		%	12,557	Infrared Drying

Sample: AB59481

Customer #: 1106425

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:09:00PM
Entry Point:
Sample Comment: Grab sample #1106425 collected from bottom of fluff pile.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	30300	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Barium	2180000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	74500		µg/kg	12,631	SW 846 6010B

Sample: AB59481

Customer #: 1106425

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:09:00PM
Entry Point:
Sample Comment: Grab sample #1106425 collected from bottom of fluff pile.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Chromium	427000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Lead	4420000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	2520	09	µg/kg	12,631	SW 846 6010B
Percent Moisture	Percent Moisture	19.8		%	12,557	Infrared Drying

Sample: AB59482

Customer #: 1106426

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:17:00PM
Entry Point:
Sample Comment: Grab sample #1106426 collected from Vine Street storm water outfall north end of property.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Total Recoverable	Arsenic	0.96	05	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Barium	46.3		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	0.54		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Chromium	1.94		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Lead	28.0		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Selenium	<0.50	ND	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Silver	<0.50	ND	µg/L	12,636	SW 846 6020
Field Dissolved Oxygen	Field Dissolved Oxygen	4.97		mg/L		SM 4500-O-G
Field pH	Field pH	7.78		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	200 uS/cm				SM 2510
Field Temperature	Field Temperature	19.6 C				EPA 170.1
Oil And Grease	Oil And Grease	<2	ND	mg/L	12,653	1664

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S Environmental Protection Agency.

Chris Boldt

Chris Boldt, Laboratory Manager
Environmental Services Program
Division of Environmental Quality

Qualifier Descriptions

01 Improper collection method
02 Improper preservation
03 Exceeded holding time
04 Analyzed by Contract Laboratory
05 Estimated value, detected below PQL
06 Estimated value, QC data outside limits
07 Estimated value, analyte outside calibration range
08 Analyte present in blank at > 1/2 reported value
09 Sample was diluted during analysis
10 Laboratory error
11 Estimated value, matrix interference
12 Insufficient quantity
13 Estimated value, true result is >= reported value
14 Estimated value, non-homogeneous sample
15 No Result - Failed Quality Controls Requirements
16 Not analyzed - related analyte not detected
17 Results in dry weight
18 Sample pH is outside the acceptable range
19 Estimated value
20 Not analyzed - Instrument failure
21 No result - spectral interference
22 pH was performed at the Laboratory
23 Contract Lab specific qualifier - see sample comments
24 No result - matrix interference
25 No Result: Excessive Chlorination
26 No Result: Excessive Dechlorination
ND Not detected at reported value

Addendum

Missouri Department of Natural Resources
Environmental Services Program

Addendum

Reason: TCLP added per memo from project manager

Order ID 110915002 **Program, Contact:** HWP Dennis Hanson

Report Date: 10/03/2011 **LDPR/JobCode:** FERCA / NJ12SHAP

Sample: AB59474

Customer #: 1106418

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN **Affiliation:** ESP **Collect Date:** 9/14/2011 12:05:00PM
Entry Point:
Sample Comment: Grab sample #1106418, collected from Wash Station.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Total Recoverable	Arsenic	10.8		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Barium	775	09	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	23.9	06	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Chromium	26.9		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Lead	2610	09	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Selenium	2.08	05	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Silver	0.51	06, 05	µg/L	12,636	SW 846 6020
Field Dissolved Oxygen	Field Dissolved Oxygen	4.42		mg/L		SM 4500-O-G
Field pH	Field pH	8.26		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	794 uS/cm				SM 2510
Field Temperature	Field Temperature	19.5 C				EPA 170.1
Oil And Grease	Oil And Grease	<2	ND	mg/L	12,653	1664

Sample: AB59475

Customer #: 1106419

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN **Affiliation:** ESP **Collect Date:** 9/14/2011 12:10:00PM
Entry Point:
Sample Comment: Grab sample #1106419, collected from sediment pile that is removed from Wash Station. Has not been previously classified by facility - is a new system and new waste.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	11000	06	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Barium	504000		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	18600		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Chromium	63900		µg/kg	12,631	SW 846 6010B

Sample: AB59475

Customer #: 1106419

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:10:00PM
Entry Point:
Sample Comment: Grab sample #1106419, collected from sediment pile that is removed from Wash Station. Has not been previously classified by facility - is a new system and new waste.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Lead	2220000		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	7110	09	µg/kg	12,631	SW 846 6010B
6010B TCLP	Cadmium	0.19		ppm	13,267	SW 846 6010B
6010B TCLP	Lead	6.04		ppm	13,267	SW 846 6010B
Percent Moisture	Percent Moisture	20.2		%	12,557	Infrared Drying

Sample: AB59476

Customer #: 1106420

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:23:00PM
Entry Point:
Sample Comment: Grab sample #1106420 collected from Storm Water outfall on southeast end of property near 9th and railroad crossing.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Total Recoverable	Arsenic	8.65		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Barium	323	09	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	30.9		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Chromium	22.2		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Lead	2110	09	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Selenium	2.14	05	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Silver	0.56	05	µg/L	12,636	SW 846 6020
Field Dissolved Oxygen	Field Dissolved Oxygen	5.10		mg/L		SM 4500-O-G
Field pH	Field pH	7.99		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	1023 uS/cm				SM 2510
Field Temperature	Field Temperature	19.4 C				EPA 170.1
Oil And Grease	Oil And Grease	<2	ND	mg/L	12,653	1664

Sample: AB59477

Customer #: 1106421

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:34:00PM
Entry Point:
Sample Comment: Grab sample #1106421 collected from roadway north of truck wash entrance just north of non-ferrous building.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	8640		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Barium	420000		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	19200		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Chromium	67300		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Lead	2180000		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	872		µg/kg	12,631	SW 846 6010B
6010B TCLP	Cadmium	0.32		ppm	13,267	SW 846 6010B
6010B TCLP	Lead	7.34	06	ppm	13,267	SW 846 6010B
Percent Moisture	Percent Moisture	14.9		%	12,557	Infrared Drying

Sample: AB59478

Customer #: 1106422

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:50:00PM
Entry Point:
Sample Comment: Grab sample #1106422 collected from first staging pile from entrance northwest side of pile near base.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	18700		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Barium	697000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	44800		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Chromium	204000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Lead	5860000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	6830	09	µg/kg	12,631	SW 846 6010B
6010B TCLP	Cadmium	0.66		ppm	13,267	SW 846 6010B
6010B TCLP	Chromium	<0.1	ND	ppm	13,267	SW 846 6010B
6010B TCLP	Lead	7.92		ppm	13,267	SW 846 6010B
Percent Moisture	Percent Moisture	14.7		%	12,557	Infrared Drying

Sample: AB59479

Customer #: 1106423

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:47:00PM
Entry Point:
Sample Comment: Grab sample #1106423 collected from midway through main roadway between two main staging piles.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	8480		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Barium	437000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	18500		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Chromium	49100	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Lead	2210000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	5780		µg/kg	12,631	SW 846 6010B
6010B TCLP	Cadmium	0.25		ppm	13,267	SW 846 6010B
6010B TCLP	Lead	8.20		ppm	13,267	SW 846 6010B
Percent Moisture	Percent Moisture	26.7		%	12,557	Infrared Drying

Sample: AB59480

Customer #: 1106424

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:03:00PM
Entry Point:
Sample Comment: Grab sample #1106424 collected from north end of main roadway near Vine Street entrance.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	8360		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Barium	367000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	16000		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Chromium	72400	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Lead	1590000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	1730		µg/kg	12,631	SW 846 6010B
6010B TCLP	Cadmium	0.16		ppm	13,267	SW 846 6010B
6010B TCLP	Lead	3.37		ppm	13,267	SW 846 6010B
Percent Moisture	Percent Moisture	19.3		%	12,557	Infrared Drying

Sample: AB59481

Customer #: 1106425

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:09:00PM
Entry Point:
Sample Comment: Grab sample #1106425 collected from bottom of fluff pile.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	30300	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Barium	2180000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	74500		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Chromium	427000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Lead	4420000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	2520	09	µg/kg	12,631	SW 846 6010B
6010B TCLP	Barium	0.86		ppm	13,273	SW 846 6010B
6010B TCLP	Cadmium	0.32		ppm	13,273	SW 846 6010B
6010B TCLP	Chromium	<0.1	ND	ppm	13,273	SW 846 6010B
6010B TCLP	Lead	0.68	06	ppm	13,273	SW 846 6010B
Percent Moisture	Percent Moisture	19.8		%	12,557	Infrared Drying

Sample: AB59482

Customer #: 1106426

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:17:00PM
Entry Point:
Sample Comment: Grab sample #1106426 collected from Vine Street storm water outfall north end of property.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Total Recoverable	Arsenic	0.96	05	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Barium	46.3		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	0.54		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Chromium	1.94		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Lead	28.0		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Selenium	<0.50	ND	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Silver	<0.50	ND	µg/L	12,636	SW 846 6020
Field Dissolved Oxygen	Field Dissolved Oxygen	4.97		mg/L		SM 4500-O-G
Field pH	Field pH	7.78		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	200 uS/cm				SM 2510
Field Temperature	Field Temperature	19.6 C				EPA 170.1
Oil And Grease	Oil And Grease	<2	ND	mg/L	12,653	1664

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S Environmental Protection Agency.

Chris Boldt

Chris Boldt, Laboratory Manager
Environmental Services Program
Division of Environmental Quality

Qualifier Descriptions

01 Improper collection method
02 Improper preservation
03 Exceeded holding time
04 Analyzed by Contract Laboratory
05 Estimated value, detected below PQL
06 Estimated value, QC data outside limits
07 Estimated value, analyte outside calibration range
08 Analyte present in blank at > 1/2 reported value
09 Sample was diluted during analysis
10 Laboratory error
11 Estimated value, matrix interference
12 Insufficient quantity
13 Estimated value, true result is >= reported value
14 Estimated value, non-homogeneous sample
15 No Result - Failed Quality Controls Requirements
16 Not analyzed - related analyte not detected
17 Results in dry weight
18 Sample pH is outside the acceptable range
19 Estimated value
20 Not analyzed - Instrument failure
21 No result - spectral interference
22 pH was performed at the Laboratory
23 Contract Lab specific qualifier - see sample comments
24 No result - matrix interference
25 No Result: Excessive Chlorination
26 No Result: Excessive Dechlorination
ND Not detected at reported value

Appendix B

Shapiro Brothers, Inc. Scrap Yard Site
Chain of Custody Records

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Description of Delivery
Tape sealed and initialed
Shipped
X Hand Delivered
Total No. Of Containers: 8
Carrier:
By:

Collector's Name: (Please Print) Sean Counihan

Affiliation: (circle one) KCRO NERO SERO SLRO SWRO WPP DGLS HWP (ESP) MoDOT MDC DHSS Other:

LAB USE ONLY!
Laboratory ID: 1109150002
Location: B37

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type (circle one)	Field Parameters (include units)		Matrix (circle one)	Container Type	Preservative Type	Number of Containers
1106418 (Sample A)	Date: 9/14/11	Metals (As, Ba, Cd, Cr, Pb, Se, Ag)	(None)	D.O.		(Water)	1L AG	H_2SO_4	2
				Flow			250 CN	HNO_3	1
		0.1 + Grease	Cl_2	pH	8.24	Soil			
			UV	Cond.	794 us	Organic			
For Lab Use Only	Time:		Ozone	Temp.	19.5°C	Sludge			
AB59474	1205	TCLP if applicable	Other:	Other: DO	4.42	Other:			
1106419 (Sample B)	Date: 9/14/11	Metals (As, Ba, Cd, Cr, Pb, Se, Ag)	(None)	D.O.		Water	8oz CG	4L	1
			Cl_2	Flow		(Soil)			
			UV	pH		Organic			
For Lab Use Only	Time:		Ozone	Cond.		Sludge			
AB59475	1210	TCLP if applicable	Other:	Temp.		Other:			
				Other:					
1106420 (Sample C)	Date: 9/14/11	Metals (As, Ba, Cd, Cr, Pb, Se, Ag)	(None)	D.O.		(Water)	1L AG	H_2SO_4	2
				Flow			250 CN	HNO_3	1
		0.1 + Grease	Cl_2	pH	7.99	Soil			
			UV	Cond.	1023	Organic			
For Lab Use Only	Time:		Ozone	Temp.	19.4°C	Sludge			
AB59476	1223	TCLP if applicable	Other:	Other: DO	5.10	Other:			
1106421 (Sample D)	Date: 9/14/11	Metals (As, Ba, Cd, Cr, Pb, Se, Ag)	(None)	D.O.		Water	8oz CG	4L	1
			Cl_2	Flow		(Soil)			
			UV	pH		Organic			
For Lab Use Only	Time:		Ozone	Cond.		Sludge			
AB59477	1234	TCLP if applicable	Other:	Temp.		Other:			
				Other:					

Relinquished By:	Received By:	Date:	Time:
[signature]	[signature]	9/15/11	0841
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A	LDPR: FERCA	Job Code: NJ12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:
Sample # 1106418 collected from wash station

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample B	LDPR: FERCA	Job Code: NJ12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:
Sample # 1106419 Collected from sediment pile that is removed from wash station has not been previously classified by facility - is a new system + new waste.

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample C	LDPR: FERCA	Job Code: NJ12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:
Sample # 1106420 collected from storm water outfall on south east end of property near 9th + railroad crossing

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample D	LDPR: FERCA	Job Code: NJ12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:
Sample # 1106421 collected from roadway north of truck wash entrance just north of non-ferrous building

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Remarks:
5.6°C

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Description of Delivery
Tape sealed and initialed
Shipped
X Hand Delivered
Total No. Of Containers: 4
Carrier:
By:

Collector's Name: (Please Print) Sean Counihan

Affiliation: (circle one) KCRO NERO SERO SLRO SWRO WPP DGLS HWP (ESP) MoDOT MDC DHSS Other:

LAB USE ONLY!
Laboratory ID: 11091500 2
Location: B37

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type (circle one)	Field Parameters (include units)	Matrix (circle one)	Container Type	Preservative Type	Number of Containers
1106422 (Sample A) / For Lab Use Only AB59478	Date: 9/14/11 Time: 1250	Metals (As, Ba, Cd, Cr, Pb, Se, Ag) TCLP if applicable	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	8oz CG	4C	1
1106423 (Sample B) / For Lab Use Only AB59479	Date: 9/14/11 Time: 1247	Metals (As, Ba, Cd, Cr, Pb, Se, Ag) TCLP if applicable	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	8oz CG	4C	1
1106424 (Sample C) / For Lab Use Only AB59480	Date: 9/14/11 Time: 1303	Metals (As, Ba, Cd, Cr, Pb, Se, Ag) TCLP if applicable	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	8oz CG	4C	1
1106425 (Sample D) / For Lab Use Only AB59481	Date: 9/14/11 Time: 1309	Metals (As, Ba, Cd, Cr, Pb, Se, Ag) TCLP if applicable	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, Soil, Organic, Sludge, Other:	8oz CG	4C	1

Relinquished By:	Received By:	Date:	Time:
[signature]	[signature]	9/15/11	0841
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A	LDPR: FERCA	Job Code: NJ 12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): (Grab) Composite Modified Other:
Sample # 1106422 Collected from first staging pile from entrance north west side of pile near base.

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	(Soil)
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
(Inspection)	Groundwater	Surface Water
Investigation	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample B	LDPR: FERCA	Job Code: NJ 12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): (Grab) Composite Modified Other:
Sample # 1106423 collected from midway through main roadway between two main staging piles

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	(Soil)
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
(Inspection)	Groundwater	Surface Water
Investigation	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample C	LDPR: FERCA	Job Code: NJ 12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): (Grab) Composite Modified Other:
Sample # 1106424 collected from north end of main roadway near Vine Street entrance.

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	(Soil)
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
(Inspection)	Groundwater	Surface Water
Investigation	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample D	LDPR: FERCA	Job Code: NJ 12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): (Grab) Composite Modified Other:
Sample # 1106425 collected from bottom of fluff pile

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one)	Sample Type: (circle one)	
Bypass/SSO	Air	(Soil)
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
(Inspection)	Groundwater	Surface Water
Investigation	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Remarks:
5.6°C

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Description of Delivery
Tape sealed and initialed
Shipped
X Hand Delivered
Total No. Of Containers: 2
Carrier:
By:

Collector's Name: (Please Print) Sean Cunnihan

Affiliation: (circle one) KCRO NERO SERO SLRO SWRO WPP DGLS HWP (ESP) MoDOT MDC DHSS Other:

LAB USE ONLY!
Laboratory ID: 110915002
Location: B37

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type (circle one)	Field Parameters (include units)		Matrix (circle one)	Container Type	Preservative Type	Number of Containers
1100426 (Sample A)	Date: 9/14/11	Metals (As, Ba, Cd, Cr, Pb, Se, Ag)	None	D.O.		Water	1L AG	H_2SO_4	2
			Cl_2	Flow		Soil	250 CN	HNO_3	1
For Lab Use Only	Time:	Oil + Grease	UV	pH	7.78	Organic			
AG59482	1317	TCLP if applicable	Ozone	Cond.	200 uS	Sludge			
			Other:	Temp.	19.6°C	Other:			
				Other: DO	4.97				
(Sample B)	Date:		None	D.O.		Water			
			Cl_2	Flow		Soil			
For Lab Use Only	Time:		UV	pH		Organic			
			Ozone	Cond.		Sludge			
			Other:	Temp.		Other:			
				Other:					
(Sample C)	Date:		None	D.O.		Water			
			Cl_2	Flow		Soil			
For Lab Use Only	Time:		UV	pH		Organic			
			Ozone	Cond.		Sludge			
			Other:	Temp.		Other:			
				Other:					
(Sample D)	Date:		None	D.O.		Water			
			Cl_2	Flow		Soil			
For Lab Use Only	Time:		UV	pH		Organic			
			Ozone	Cond.		Sludge			
			Other:	Temp.		Other:			
				Other:					

Relinquished By:	Received By:	Date:	Time:
Sean Cunnihan	Dan Rg	9/15/11	0841
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A	LDPR: FERCA	Job Code: NJ 12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:
Sample # 1106426 collected from Vine Street storm water out fall Northend of property

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample B	LDPR:	Job Code:	Sample Reference ID:
Facility ID:	Site/Study Name:	County:	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample C	LDPR:	Job Code:	Sample Reference ID:
Facility ID:	Site/Study Name:	County:	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample D	LDPR:	Job Code:	Sample Reference ID:
Facility ID:	Site/Study Name:	County:	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Remarks:
5.6°C

Appendix C

Shapiro Brothers, Inc. Scrap Yard Site
Sampling Locations Map and Photographs

Shapiro Brothers Scrap Yard Sampling Locations Map

Sample 1, Surface water from Truck Wash Station.

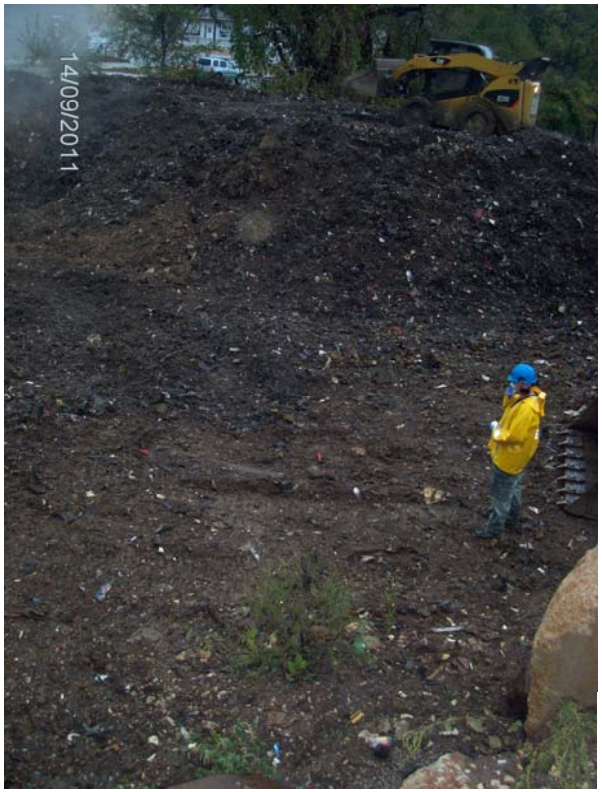
Sample 2, Soil\Sediment scraped from bottom of wash tank.

Sample 3, Strom water run off, S.E. corner of property.

Sample 4, Soil collected from roadway just after entering property.

Sample 5, Soil collected from bottom of first staging pile.

Sample 6, Soil collected from roadway midway through property – between staging piles. (Staging pile 2 in background)



Sample 7, Auto Fluff pile

Sample 8, Soil collected from north entrance.

Sample 9, Storm Water run off from Vine Street (on north end of property). The drain was installed by Shapiro Brothers to route underground to stream.

Appendix D

Shapiro Brothers, Inc. Scrap Yard Site
Field Notes

Shapiro Brothers Scrap Yard
Wed. Sep. 14 2011 FERCA NJ12SHAP
Arrive on site @ 0900 9th + Delmar
DNR Personnel P.O. Box 759
Sean Cunnihan
Evan Bryant
Jim Hessel
Vickie Heberlie
Darren Bernart
Also on site
Site Owner Greg Shapiro/Dave Shapiro
Shapiro Environmental NPN Dave ~~Rosen~~ Rowe
had to wait on above two to
get started. NPN Consultant Florian Gregory

Met w/ Greg Shapiro 0945
Greg said Shapiro Brothers has been
sold & will be closing this Friday Sep 16
Site is 50 yrs old 15 acres 8 acres usable

1157 Sample 1
from wash station by front entrance
at 9th + Delmar
Collecting water from washbasin
GPS N. 38.23001
-90.39035

Water quality meters bump tested on 9/13/
~~Ter~~ pH at 7 = 7.06
at 4 = 4.03
Cond at 1413 = 1460 us

Sample collected @ 1205
Temp = 19.5°C
pH = 8.26
DO = 4.42
Cond = 794
Sample # 1106418

Sample 2 collected from
Sediment collected from wash station
Conveyor scraper collects + deposits into
Container outside of station
Sample # 1106419 @ 1210
5 aliquots from container

Sample 3 from stormwater outfall
near creek off 4th Street +
railroad crossing

Temp = 19.4°C
Cond = 1023
pH = 7.91
DO = 5.10

Sample collected @ 1223
Sample # 1106420

Sample 4 Soil
collected from Center of Roadway
after truck waste station
~~west~~ of Non-Ferrous building
north
Sample collected @ 1234
5 aliquots from ~~east~~ ~~to west~~ south to north
Sample # 1106421

Sample 5 Soil collected from
1st staging Pile from main entrance
at base of pile ~~south~~ northwest side. by road 5 aliquots
Sample collected at 1250
Sample # 1106422

Sample 6 Soil collected from
middle of main Roadway between piles
Sample collected at 1247
Sample # 1106423

Sample 7 Collected Soil
from ~~West~~ south entrance off Vine St.
sample collected at 1303
sample # 110624

Sample 8 Collected from
Fluff pile (left over from Car shredding)
Collected @ 1309
Sample # 110625

Sample 9
Storm water outfall from Vine
St. north of property
This outfall should not be impaired
by Shapiro facility. water is underground
except for corner of facility near
fluff pile entrance where Shapiro
re-routed runoff back underground
so as not to affect fluff piles

Temp 19.6°C
Cond 260 uS
pH 7.78
DO - 4.97
Sample collected at 1317
Sample # 110626

STATE OF MISSOURI
Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director
DEPARTMENT OF NATURAL RESOURCES
www.dnr.mo.gov

MEMORANDUM

DATE: January 10, 2012

TO: Eric Sappington, Chief, Superfund and RCRA Unit
Field Services Section, Environmental Services Program

FROM: MS(for) Julieann Warren, Chief, Site Assessment Unit (SAU)
Superfund Section, Hazardous Waste Program

SUBJECT: Shapiro Brothers Salvage Yard, Festus, MO

The Superfund section is requesting assistance with a sampling event planned for January 11, 2012 at the subject site. A Combined Site Inspection/Removal Site Evaluation (SI/RSE) was initiated on December 28, 2011. The department is working concurrently with this active facility on waste compliance issues. Typically a formal sampling and analysis plan would be drafted prior to conducting sampling for a SI/RSE. In this instance however, due to the limited scope of the sampling planned and the time constraints posed by the need to coordinate this sampling with an event already planned by Enforcement Section staff, this memo will serve to document the planned sampling activity. Note that once a more mature conceptual site model has been prepared, and based on findings from this sampling event, it may be necessary to conduct additional sampling on the facility. In addition, sampling is planned at nearby residences and surface water/sediment downstream of the site. A formal written sampling and analysis plan will be prepared prior to that more extensive sampling event.

Once a contaminant source area is identified, a surface (0-2") composite soil sample will be collected. If conditions are amenable, an additional shallow subsurface soil grab sample will be collected from 2-12" depth, using hand tools. The shallow subsurface samples are of particular interest in the fluff pile and railcar dismantling areas. We request that GPS locations and photographs be collected at each sampling area/sampling location. We anticipate that 6-8 samples will be collected plus one replicate split, however the number of samples actually collected will depend on site conditions and time constraints.

All soil samples will be submitted for laboratory analysis of organochlorine pesticides, SVOCs, PCBs, and priority pollutant metals. The surface and subsurface samples collected from beneath the fluff pile will also be submitted for dioxin/furan congener analysis. Should field staff encounter solvent odors in any area during shallow soil excavations, a sample will also be collected for analysis of VOCs.

The sampling event has been scheduled for tomorrow. Time incurred while meeting this request should be charged to "Site Inspection' FEPA5, Job Number NJ2SHAP. For additional information, please contact Michael Stroh of my staff at (573) 522-9902.

JW:msj

c: Chris Boldt, Environmental Service Program

Jefferson County (WP)
Shapiro Brothers, Inc
MO-R60A146

HWP/Enforcement
Shapiro Brothers, Inc. Festus
MOR000021907

STATE OF MISSOURI
Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director
DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

Dept. of Natural Resources
DEC 06 2011
Hazardous Waste Program

November 23, 2011

CERTIFIED MAIL #7009 3410 0001 4306 7186
RETURN RECEIPT REQUESTED

Shapiro Brothers, Inc.
c/o Greg Shapiro
P.O. Box 759
Festus, MO 63028

Dear Mr. Shapiro:

NOTICE OF VIOLATION #2937 SL

A routine compliance inspection of Shapiro Brothers, Inc., located in Jefferson County, Missouri was conducted on September 14, 2011. The inspection was conducted by James J. Hessel II with the Missouri Department of Natural Resources' St. Louis Regional Office. The compliance inspection was conducted in conjunction with an investigation of a report of an environmental concern at the site. The report is referenced as Environmental Concern ACE#SLR 20110913 15025412. Enclosed is a copy of the inspection report. Based upon the findings of the inspection, Shapiro Brothers, Inc. is being issued Notice of Violation (NOV) #2937 SL.

The report outlines the findings of the investigation and lists recommendations to ensure compliance. Due to the seriousness of the violations, please provide a written response **within 15 days of receipt of this NOV** to this office, explaining how the violations will be addressed.

If you have any questions, please contact James J. Hessel II or me at (314) 416-2960 in the St. Louis Regional Office, 7545 South Lindbergh Blvd., Suite 210, St. Louis, MO 63125.

Sincerely,

ST. LOUIS REGIONAL OFFICE

Mike Struckhoff
Regional Director

MS/JJH/jh

Enclosures: Report of Compliance Inspection; NOV #2937 SL;
Photos; Sample Results; Application for Transfer of Operating Permit

c: Jefferson County Health Department
Mr. Dennis Hansen, Hazardous Waste Program
The Honorable Mike Cage, Mayor, City of Festus
Mr. Kevin Mohammadi, WPB
Mr. Larry Lehman, SWMP
Ms. Nicole Eby, APCP
Mr. Joseph King, Vice President, MW Recycling, LLC

Recycled Paper

REPORT OF COMPLIANCE INSPECTION

SHAPIRO BROTHERS, INC
JEFFERSON COUNTY
MO-R60A146
November 23, 2011

INTRODUCTION

Pursuant to Section 644.026.1 RSMo of the Missouri Clean Water Law, a routine compliance inspection of Shapiro Brothers, Inc. in Jefferson County, Missouri was conducted by James J. Hessel II of the Missouri Department of Natural Resources' St. Louis Regional Office on September 14, 2011. Ms. Vickie Heberlie of DNR – Jefferson County Satellite Office, Mr. Darren Bernat of DNR – Jefferson County Satellite Office, Mr. Evan Bryant of DNR – Hazardous Waste Program and Mr. Sean Counihan of DNR – Environmental Services Program/Environmental Emergency Response also participated in the inspection. Mr. Greg Shapiro of Shapiro Brothers, Mr. Dave Shapiro of Shapiro Brothers, Mr. Dave Rowe of NPN Environmental and Mr. Brian Gregory of NPN Environmental represented the facility during the inspection.

This inspection was conducted to determine the facility's compliance with Missouri State Operating Permit MO-R60A146, the Missouri Clean Water Commission Regulations, and the Missouri Clean Water Law. This report presents the findings and observations made during the compliance inspection.

FACILITY DESCRIPTION/HISTORY

Missouri State Operating Permit MO-R60A146 was last issued on June 16, 2008, and expires on May 29, 2013. This permit sets forth effluent limitations, monitoring requirements, and permit conditions, both standard and specific, that the permittee is to follow.

Shapiro Brothers, Inc. has been at a 15 acre site located at the corner of Ninth & Delmar in Festus, MO for approximately 65 years. This facility is primarily a scrap metal recycling operation recycling items such as rail cars, automobiles, sheet metal, siding, empty appliance shells, among other items.

Shapiro Brothers, Inc. was recently sold and has become a division of PSC Metals, Inc.

The legal description of the Shapiro Brothers, Inc. is listed on the permit as the NE ¼, NE ¼, Section 6, Township 40 North, Range 6 East in Jefferson County, MO. The receiving stream for this facility is a tributary to Plattin Creek.

An Environmental Concern ACE #SLR 20110708 10563936 was investigated by the Department of Natural Resources' St. Louis Regional Office Staff on July 13, 2011. The receiving stream next to the facility was found to have an oily sheen. Very little petroleum residue could be noted at the time of investigation; however, the facility constructed a sock filter basket to contain any possible oil being washed via storm water runoff through the facility storm sewers.

DISCUSSION OF INSPECTION AND OBSERVATIONS

Prior to the inspection, the files for Shapiro Brothers, Inc. were reviewed, including the Permit Conditions of Missouri State Operating Permit MO-R60A146, to familiarize the inspector with the requirements specific to this facility.

The inspection was conducted during normal business hours. Prior notification was not provided to the facility. Upon arrival at the facility, the inspector met with Greg Shapiro, Owner; Dave Shapiro, Owner; Dave Rowe, Environmental Consultant and Brian Gregory, Environmental Consultant; and the purpose and scope of the inspection were outlined. Greg Shapiro granted permission to access the site and all personnel mentioned above accompanied the inspector throughout the tour of the facility:

1. Review of the files revealed that Shapiro Brothers, Inc. has not been submitting the Annual Operating Report as required by Missouri State Operating Permit MO-R60A146.

   The Annual Operating Report must be submitted by October 28th of each year and shall detail any unusual occurrences such as spills, tank failures or overflows, ruptured piping, fish kills, fire fighting activities, or other upsets which resulted in any loss of product. Product includes, but in not limited to, fuels, oils, other fluids, and paints. The report shall also detail any remedial work undertaken to recover product or clean up the site. The report must also indicate if nothing unusual has occurred.

2. Shapiro Brothers, Inc. has not yet transferred Missouri State Operating Permit MO-R60A146 to PSC Metals, Inc.

   The permit may be transferred to the new owner by submitting an "Application for Transfer of Operating Permit" signed by the seller and buyer of the facility, along with the appropriate modification fee.

3. The facility installed a tire wheel wash at its N. 9th Street entrance for vehicles exiting the site (Photos 1 through 6).

   The washed off material is housed in a 2,500 gallon container underneath the wheel wash. A flocculent is added to settle out any suspended particles to the bottom of the container. The settled out material is then transferred via conveyor belt to an uncovered metal container located on the side of the wheel wash. Water drains from the uncovered metal container unto the facilities property, flows through a culvert to the east end of the property then flows as sheet flow to the southeast corner of the property where it discharges into the unnamed tributary located next to the facility.

4. The facility requires vehicles leaving the property at its Vine Street entrance to wash off the tires with a hose before leaving the property (Photo 7).

5. Used oil is stored in containers and not exposed to storm water; however, the containers were not equipped with secondary containment (Photos 8 and 9).

Spill prevention control and/or management shall be provided sufficient to prevent any spills of pollutants from entering waters of the state. Any containment system used to implement this shall be constructed of materials compatible with the substance contained and shall also prevent the contamination of groundwater.

6. The facility sweeps Delmar Ave., Vine St. and N. 9th St. with a street sweeper. The facility has also recently rented a vacuum street sweeper. The material vacuumed up from the streets is sent to Timber Ridge Landfill. Sweeping occurs every one to two days depending on need.

7. Sample #1106420 taken at the storm water outfall on the southeast end of the property near 9th Street and the railroad crossing violated the Water Quality Standards general criteria for Cadmium and Lead. Please see the Water Quality Monitoring section of this report for the results.

WATER QUALITY MONITORING

The appropriate sampling materials were taken on the inspection, including a copy of the Missouri Department of Natural Resources' Standard Operating Procedures for Sampling. Instruments for field monitoring were taken on the inspection that are capable of testing pH, temperature, conductivity, and dissolved oxygen.

Water quality field monitoring was taken onsite and samples were submitted to the Environmental Services Program Laboratory in Jefferson City, MO for analysis. Mr. Sean Counihan of DNR – Environmental Services Program/Environmental Emergency Response conducted the water quality field monitoring and sampling from the:

1) Metal container holding settled material from the wheel wash station (Sample #1106418);
2) Storm water outfall on the southeast end of property near 9th and railroad crossing (Sample #1106420) and;
3) Vine Street storm water outfall at north end of property (Sample #1106426). This sample was meant to be a comparator since the storm water came directly from Vine St. and never ran onto the property before being collected.

Wash Station Water		
Parameter	**Result**	**Units**
pH	8.26	s.u.
Temperature	19.5	°C
Dissolved Oxygen	4.42	mg/L
Conductivity	794	Microsiemens

Outfall near SE corner of 9th & railroad crossing		
Parameter	**Result**	**Units**
pH	7.99	s.u.
Temperature	19.4	°C
Dissolved Oxygen	5.10	mg/L
Conductivity	1023	Microsiemens

Vine Street storm water outfall		
Parameter	**Result**	**Units**
pH	7.78	s.u.
Temperature	19.6	°C
Dissolved Oxygen	4.97	mg/L
Conductivity	200	Microsiemens

The Environmental Services Program Results of Sample Analyses are listed below.

Wash Station Water		
Results of Sample Analyses		
Parameters	**Sample Result**	**Units**
Arsenic	10.8	µg/L
Barium	775	µg/L
Cadmium	23.9	µg/L
Chromium	26.9	µg/L
Lead	2610	µg/L
Selenium	2.08	µg/L
Silver	0.51	µg/L
Oil & Grease	<2	mg/L

Outfall near SE corner of 9th & railroad crossing			
Results of Sample Analyses			
Parameters	**Sample Result**	**Units**	**Water Quality Standards Limit**
Arsenic	8.65	µg/L	20
Barium	323	µg/L	N/A
Cadmium	30.9	µg/L	11.6 *
Chromium	22.2	µg/L	N/A
Lead	2110	µg/L	172*
Selenium	2.14	µg/L	5
Silver	0.56	µg/L	15.6*
Oil & Grease	<2	mg/L	N/A

* These metals are hardness dependant. Since hardness was not taken during the inspection, the water quality standard limit used assumes that the hardness was the maximum allowed which is defined as 250+.

Vine Street storm water outfall		
Results of Sample Analyses		
Parameters	**Sample Result**	**Units**
Arsenic	0.96	µg/L
Barium	46.3	µg/L
Cadmium	0.54	µg/L
Chromium	1.94	µg/L
Lead	28.0	µg/L
Selenium	<0.5	µg/L
Silver	<0.5	µg/L
Oil & Grease	<2	mg/L

COMPLIANCE DETERMINATION

The facility was found to be in non-compliance with the Missouri Clean Water Law, the Clean Water Commission Regulations, and Missouri State Operating Permit MO-R60A146, based upon the observations made at the time of the inspection.

UNSATISFACTORY FEATURES

1. Shapiro Brothers, Inc. failed to submit a complete Annual Operating Report as required in Missouri State Operating Permit (MSOP) MO-R60A146 in violation of Missouri Clean Water Law Section 644.076.1 and Missouri Clean Water Regulation 10 CSR 20-7.015(9)(A)1.

   REQUIRED ACTION: As referenced in Discussion of Inspection and Observations #1, Annual Operating Reports have never been submitted. The facility shall submit Annual Operating Reports that were due 10/28/2009, 10/28/2010 and 10/28/2011 to the St. Louis Regional Office **within 15 days of receipt of this letter**. Also, please ensure that all future reports are submitted on time.

2. Shapiro Brothers, Inc. must ensure that Missouri State Operating Permit MO-R60A146 be transferred to the current owner.

   REQUIRED ACTION: As referenced in Discussion of Inspection and Observations #2, the facility shall submit an "Application for Transfer of Operating Permit" signed by the seller and buyer of the facility, along with the appropriate modification fee to the St. Louis Regional Office within **15 days of receipt of this letter.** I have enclosed an "Application for Transfer of Operating Permit" for your convenience.

3. Shapiro Brothers, Inc. discharged water contaminants into waters of the state, which reduced the quality of such waters below the Water Quality Standards in violation of Missouri Clean Water Law Sections 644.051.1(1), 644.051.1(2) and 644.076.1 and Missouri Clean Water Commission Regulation 10 CSR 20-7.031.

REQUIRED ACTION: As referenced in Discussion of Inspection and Observations #7, the facility violated the Water Quality Standards general criteria for Cadmium and Lead. The facility shall submit a written statement to the St. Louis Regional Office **within 15 days of receipt of this letter**, explaining what actions will be taken to correct the unsatisfactory feature and prevent a reoccurrence in the future. This must include the development of a Storm Water Pollution Prevention Plan (SWPPP) to ensure all storm water leaving the site is free from pollutants.

RECOMMENDATIONS

1. The facility should consider providing secondary containment around all containers that store fuel or other chemicals to ensure releases to the environment do not occur.

SUBMITTED BY:

James J. Hessel II
Environmental Specialist III
St. Louis Regional Office

JJH/jh

MISSOURI DEPARTMENT OF NATURAL RESOURCES

NOTICE OF VIOLATION

P.O. BOX 176
JEFFERSON CITY MO 65102

REGION/PROGRAM
☐ KC ☐ NE ☐ SE ☒ SL
☐ SW ☐ DW ☐ HWP
☐ LRP ☐ SWMP ☐ WPC

VIOLATION NUMBER
NO. 2937 SL

DATE AND TIME ISSUED
November 23, 2011 ☐ AM ☐ PM

SOURCE (NAME, ADDRESS, PERMIT NUMBER, LOCATION)
Shapiro Brothers, Inc.
9th & Delmar, Festus, MO 63028
Permit #MO-R60A146

Location: Festus, Missouri

MAILING ADDRESS	CITY	STATE	ZIP CODE
P.O. Box 759	Festus	MO	63028

NAME OF OWNER OR MANAGER	TITLE OF OWNER OR MANAGER	COUNTY
Greg Shapiro	Owner	Jefferson

LAW, REGULATION OR PERMIT VIOLATED
1. MO Clean Water Law 644.051.1(1)
2. MO Clean Water Law 644.051.1(2)
3. MO Clean Water Law 644.076.1
4. MO Clean Water Commission Regulation 10 CSR 20-7.015(9)(A)1
5. MO Clean Water Commission Regulation 10 CSR 20-7.031(3)(D)
6. MO Clean Water Commission Regulation 10 CSR 20-7.031(3)(E)

NATURE OF VIOLATION DATE(S): TIME(S):

1. Failed to submit annual operating reports as required by the permit.

2. Caused pollution of waters of the state, or placed or caused or permitted to be placed water contaminants in a location where it is reasonably certain to cause pollution of waters of the state.

3. Discharging pollutants to waters of the State of Missouri in sufficient amounts to result in toxicity to human, animal, or aquatic life and to cause a human health hazard from incidental contact with the water.

SIGNATURE (PERSON RECEIVING NOTICE)	SIGNATURE (PERSON ISSUING NOTICE)
Sent by Certified Mail	Jim Hessel
TITLE OR POSITION	TITLE OR POSITION
	Environmental Specialist/SLRO

Photo #: 1
By: James J. Hessel II
Facility: Shapiro Brothers, Inc
Permit: MO-R60A146
Location: N. 9th Street entrance

Description: Tire wheel wash

Date/Time Taken: September 14, 2011
Program: WPC Unit

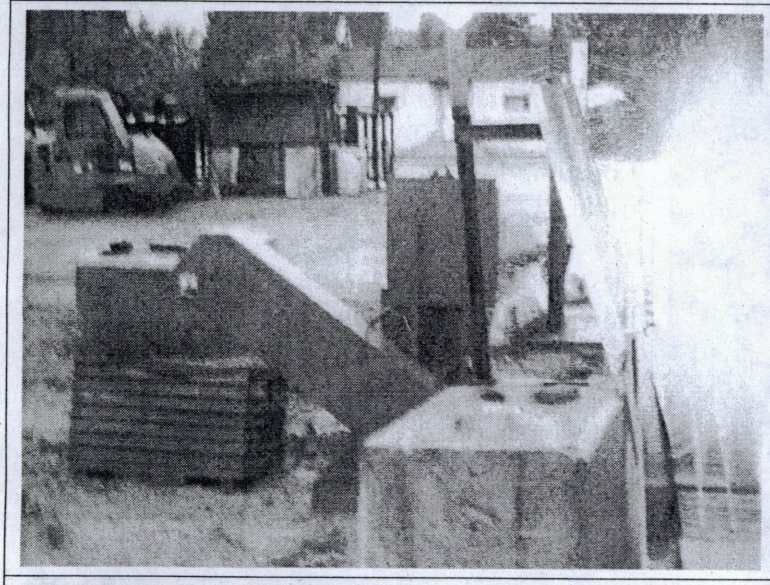


Photo #: 2
By: James J. Hessel II
Facility: Shapiro Brothers, Inc
Permit: MO-R60A146
Location: N. 9th Street entrance

Description: Conveyor belt removing settled out material from container under the tire wheel wash

Date/Time Taken: September 14, 2011
Program: WPC Unit

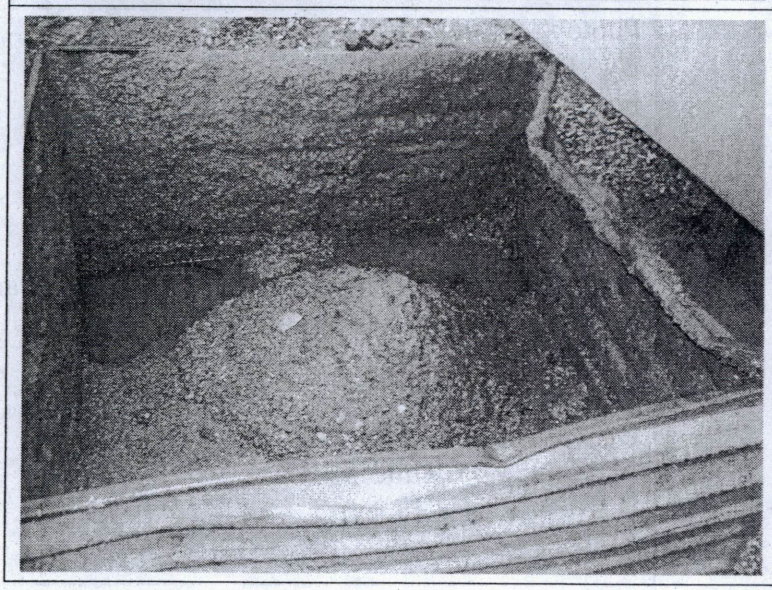
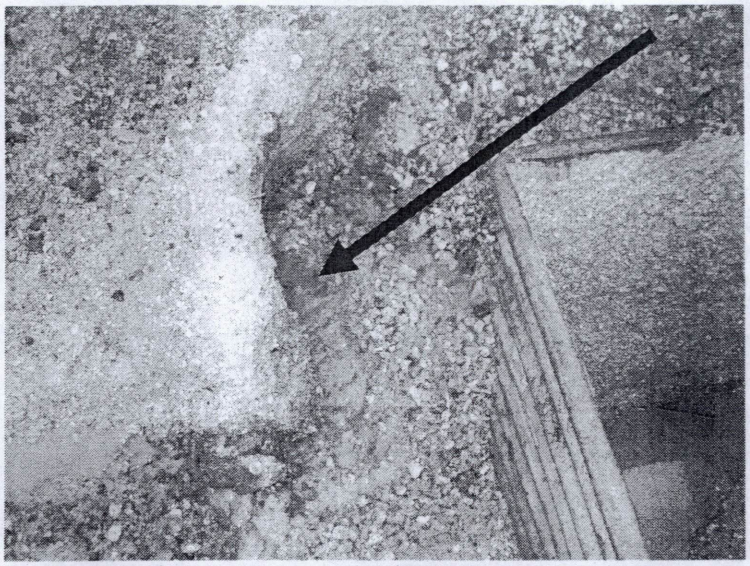


Photo #: 3
By: James J. Hessel II
Facility: Shapiro Brothers, Inc
Permit: MO-R60A146
Location: N. 9th Street entrance

Description: Settled out material from tire wheel wash in open container

Date/Time Taken: September 14, 2011
Program: WPC Unit

Initial_JJH__

	Photo #: 4 By: James J. Hessel II Facility: Shapiro Brothers, Inc Permit: MO-R60A146 Location: N. 9th Street entrance Description: water from uncovered container flowing into culvert Date/Time Taken: September 14, 2011 Program: WPC Unit
	Photo #: 5 By: James J. Hessel II Facility: Shapiro Brothers, Inc Permit: MO-R60A146 Location: East side of property near unnamed tributary Description: water from uncovered container flowing out of culver onto east end of property Date/Time Taken: September 14, 2011 Program: WPC Unit
	Photo #: 6 By: James J. Hessel II Facility: Shapiro Brothers, Inc Permit: MO-R60A146 Location: East side of property at unnamed tributary Description: Outfall where water from property and N. 9th Street flows into the unnamed tributary Date/Time Taken: September 14, 2011 Program: WPC Unit

Initial JJH

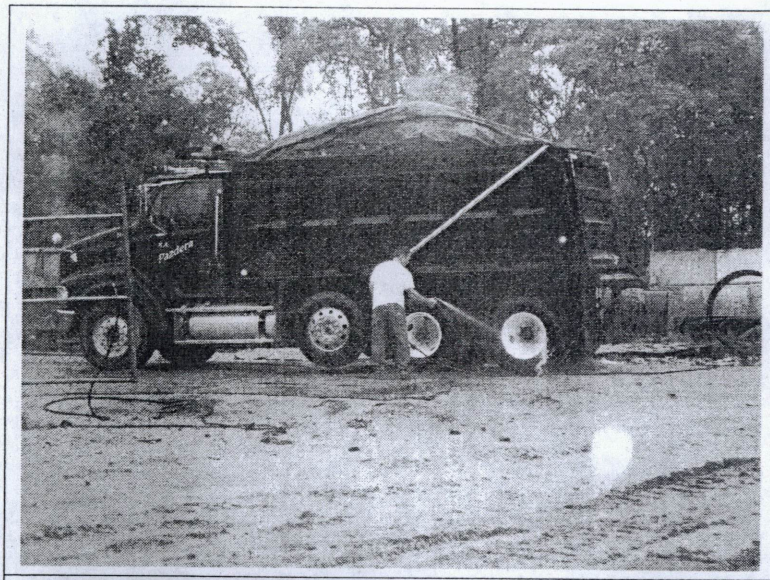


Photo #: 7
By: James J. Hessel II
Facility: Shapiro Brothers, Inc
Permit: MO-R60A146
Location: Vine Street entrance

Description: Picture showing vehicles washing off tires prior to exiting property

Date/Time Taken: September 14, 2011
Program: WPC Unit

Photo #: 8
By: James J. Hessel II
Facility: Shapiro Brothers, Inc
Permit: MO-R60A146
Location: Building located next to Vine Street

Description: Picture showing used oil container

Date/Time Taken: September 14, 2011
Program: WPC Unit

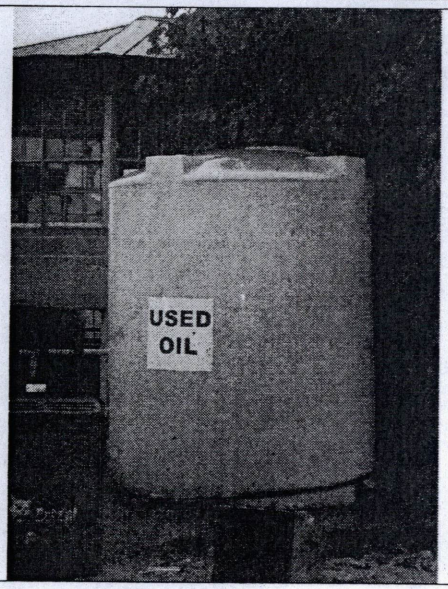


Photo #: 9
By: James J. Hessel II
Facility: Shapiro Brothers, Inc
Permit: MO-R60A146
Location: North part of the property

Description: Picture showing used oil container

Date/Time Taken: September 14, 2011
Program: WPC Unit

Initial_JJH__

Missouri Department of Natural Resources
Environmental Services Program

Order ID 110915002 **Program, Contact:** HWP Dennis Hanson

Report Date: 10/03/2011 **LDPR/JobCode:** FERCA / NJ12SHAP

Sample: AB59474

Customer #: 1106418

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:05:00PM
Entry Point:
Sample Comment: Grab sample #1106418, collected from Wash Station.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Total Recoverable	Arsenic	10.8		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Barium	775	09	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	23.9	06	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Chromium	26.9		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Lead	2610	09	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Selenium	2.08	05	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Silver	0.51	06, 05	µg/L	12,636	SW 846 6020
Field Dissolved Oxygen	Field Dissolved Oxygen	4.42		mg/L		SM 4500-O-G
Field pH	Field pH	8.26		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	794 uS/cm				SM 2510
Field Temperature	Field Temperature	19.5 C				EPA 170.1
Oil And Grease	Oil And Grease	<2	ND	mg/L	12,653	1664

Sample: AB59475

Customer #: 1106419

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:10:00PM
Entry Point:
Sample Comment: Grab sample #1106419, collected from sediment pile that is removed from Wash Station. Has not been previously classified by facility - is a new system and new waste.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	11000	06	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Barium	504000		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	18600		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Chromium	63900		µg/kg	12,631	SW 846 6010B

Sample: AB59475

Customer #: 1106419

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:10:00PM
Entry Point:
Sample Comment: Grab sample #1106419, collected from sediment pile that is removed from Wash Station. Has not been previously classified by facility - is a new system and new waste.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Lead	2220000		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	7110	09	µg/kg	12,631	SW 846 6010B
Percent Moisture	Percent Moisture	20.2		%	12,557	Infrared Drying

Sample: AB59476

Customer #: 1106420

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:23:00PM
Entry Point:
Sample Comment: Grab sample #1106420 collected from Storm Water outfall on southeast end of property near 9th and railroad crossing.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Total Recoverable	Arsenic	8.65		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Barium	323	09	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	30.9		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Chromium	22.2		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Lead	2110	09	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Selenium	2.14	05	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Silver	0.56	05	µg/L	12,636	SW 846 6020
Field Dissolved Oxygen	Field Dissolved Oxygen	5.10		mg/L		SM 4500-O-G
Field pH	Field pH	7.99		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	1023 uS/cm				SM 2510
Field Temperature	Field Temperature	19.4 C				EPA 170.1
Oil And Grease	Oil And Grease	<2	ND	mg/L	12,653	1664

Sample: AB59477

Customer #: 1106421

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:34:00PM
Entry Point:
Sample Comment: Grab sample #1106421 collected from roadway north of truck wash entrance just north of non-ferrous building.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	8640		µg/kg	12,631	SW 846 6010B

110915002

Sample: AB59477

Customer #: 1106421

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:34:00PM
Entry Point:
Sample Comment: Grab sample #1106421 collected from roadway north of truck wash entrance just north of non-ferrous building.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Barium	420000		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	19200		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Chromium	67300		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Lead	2180000		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	872		µg/kg	12,631	SW 846 6010B
Percent Moisture	Percent Moisture	14.9		%	12,557	Infrared Drying

Sample: AB59478

Customer #: 1106422

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:50:00PM
Entry Point:
Sample Comment: Grab sample #1106422 collected from first staging pile from entrance northwest side of pile near base.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	18700		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Barium	697000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	44800		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Chromium	204000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Lead	5860000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	6830	09	µg/kg	12,631	SW 846 6010B
Percent Moisture	Percent Moisture	14.7		%	12,557	Infrared Drying

Sample: AB59479

Customer #: 1106423

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:47:00PM
Entry Point:
Sample Comment: Grab sample #1106423 collected from midway through main roadway between two main staging piles.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	8480		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Barium	437000	09	µg/kg	12,631	SW 846 6010B

Sample: AB59479
Customer #: 1106423

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:47:00PM
Entry Point:
Sample Comment: Grab sample #1106423 collected from midway through main roadway between two main staging piles.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Cadmium	18500		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Chromium	49100	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Lead	2210000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	5780		µg/kg	12,631	SW 846 6010B
Percent Moisture	Percent Moisture	26.7		%	12,557	Infrared Drying

Sample: AB59480
Customer #: 1106424

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:03:00PM
Entry Point:
Sample Comment: Grab sample #1106424 collected from north end of main roadway near Vine Street entrance.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	8360		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Barium	367000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	16000		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Chromium	72400	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Lead	1590000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	1730		µg/kg	12,631	SW 846 6010B
Percent Moisture	Percent Moisture	19.3		%	12,557	Infrared Drying

Sample: AB59481
Customer #: 1106425

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:09:00PM
Entry Point:
Sample Comment: Grab sample #1106425 collected from bottom of fluff pile.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Arsenic	30300	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Barium	2180000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Cadmium	74500		µg/kg	12,631	SW 846 6010B

110915002

Sample: AB59481

Customer #: 1106425

Facility ID:
County: Jefferson
Site: Shapiro Brothers.
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:09:00PM
Entry Point:
Sample Comment: Grab sample #1106425 collected from bottom of fluff pile.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Chromium	427000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Lead	4420000	09	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	2520	09	µg/kg	12,631	SW 846 6010B
Percent Moisture	Percent Moisture	19.8		%	12,557	Infrared Drying

Sample: AB59482

Customer #: 1106426

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:17:00PM
Entry Point:
Sample Comment: Grab sample #1106426 collected from Vine Street storm water outfall north end of property.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Total Recoverable	Arsenic	0.96	05	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Barium	46.3		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	0.54		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Chromium	1.94		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Lead	28.0		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Selenium	<0.50	ND	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Silver	<0.50	ND	µg/L	12,636	SW 846 6020
Field Dissolved Oxygen	Field Dissolved Oxygen	4.97		mg/L		SM 4500-O-G
Field pH	Field pH	7.78		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	200 uS/cm				SM 2510
Field Temperature	Field Temperature	19.6 C				EPA 170.1
Oil And Grease	Oil And Grease	<2	ND	mg/L	12,653	1664

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S Environmental Protection Agency.

Chris Boldt

Chris Boldt, Laboratory Manager
Environmental Services Program
Division of Environmental Quality

Qualifier Descriptions

01 Improper collection method
02 Improper preservation
03 Exceeded holding time
04 Analyzed by Contract Laboratory
05 Estimated value, detected below PQL
06 Estimated value, QC data outside limits
07 Estimated value, analyte outside calibration range
08 Analyte present in blank at > 1/2 reported value
09 Sample was diluted during analysis
10 Laboratory error
11 Estimated value, matrix interference
12 Insufficient quantity
13 Estimated value, true result is >= reported value
14 Estimated value, non-homogeneous sample
15 No Result - Failed Quality Controls Requirements
16 Not analyzed - related analyte not detected
17 Results in dry weight
18 Sample pH is outside the acceptable range
19 Estimated value
20 Not analyzed - Instrument failure
21 No result - spectral interference
22 pH was performed at the Laboratory
23 Contract Lab specific qualifier - see sample comments
24 No result - matrix interference
25 No Result: Excessive Chlorination
26 No Result: Excessive Dechlorination
ND Not detected at reported value

Jefferson County (HW)
Shapiro Brothers

HWP/Enforcement
Shapiro Brothers, Inc. Festus
MOR000021907

STATE OF MISSOURI
Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

Dept. of Natural Resources
DEC 06 2011
Hazardous Waste Program

November 22, 2011

CERTIFIED MAIL #7009 3410 0001 4306 7179
RETURN RECEIPT REQUESTED

Mr. Gregory Shapiro, V.P. Operations
Shapiro Brothers
A Division of MW Recycling, LLC
P.O. Box 759
Festus, MO 63028

Dear Mr. Shapiro: **NOTICE OF VIOLATION #SLR07382748**

Enclosed is a report of a hazardous waste compliance evaluation inspection conducted at Shapiro Brothers, A Division of MW Recycling, LLC (Shapiro), located at 9th & Delmar in Festus, Missouri by Ms. Vickie Heberlie of my staff on September 14, 2011. The section of the report titled "UNSATISFACTORY FEATURES" lists a violation noted during the inspection and outlines steps the inspector has determined will correct the violation. The "COMMENTS" section of the report includes additional recommendations concerning hazardous waste management at the facility. Water pollution and air pollution compliance inspections were also conducted at the facility concurrent with the hazardous waste inspection. Reports of these inspections will be sent to you under separate cover.

Due to the serious nature of the violation, the Department is issuing Notice of Violation (NOV) #SLR07382748. **Within 15 days**, a written response must be submitted that includes a description of the actions taken to correct the violation and/or or a schedule for completion of the needed action to correct the violation. The response must also describe the actions taken to address the additional comments included in the report. Please mail your response to the attention of Mr. Dennis Hansen, Missouri Department of Natural Resources, Hazardous Waste Program, Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102-0176. A copy of your response should be sent to Ms. Vickie Heberlie, Missouri Department of Natural Resources, St. Louis Regional Office, 7545 South Lindbergh Blvd, Suite 210, St. Louis, MO 63125.

Your cooperation is appreciated. Should you have any questions, **please contact Mr. Evan Bryant of the Hazardous Waste Program at (573) 751-3176, email evan.bryant@dnr.mo.gov or Ms. Vickie Heberlie at the Missouri Department of Natural Resources, Jefferson County Satellite Office at (636) 931-5223, email vickie.heberlie@dnr.mo.gov.**

Sincerely,

ST. LOUIS REGIONAL OFFICE

Mike Struckhoff
Regional Director

MS/VLH/jh

Enclosures

c: Mr. Dennis Hansen, Hazardous Waste Program
The Honorable Mike Cage, Mayor, City of Festus
Mr. Kevin Mohammadi, WPB
Mr. Larry Lehman, SWMP
Ms. Nicole Eby, APCP
Mr. Joseph King, Vice President, MW Recycling, LLC

RESOURCE CONSERVATION AND RECOVERY ACT
AND
MISSOURI HAZARDOUS WASTE MANAGEMENT LAW
COMPLIANCE EVALUATION INSPECTION REPORT

FACILITY:

Shapiro Brothers
A Division of MW Recycling, LLC
9th & Delmar Streets
Festus, MO 63028
(636) 937-9185

EPA ID#: None
MO ID #: None
Resource Recovery: NA

PARTICIPANTS:

Department of Natural Resources	Vickie L. Heberlie, Darren Bernat James Hessel, Evan Bryant Sean Counihan Environmental Specialists
Shapiro Brothers A Division of MW Recycling, LLC	Gregory Shapiro, VP of Operations Dave Shapiro, VP of Commercial
NPN Environmental	David Rowe, Brian Gregory Engineers

INTRODUCTION:

On September 14, 2011, a hazardous waste compliance evaluation inspection was conducted at Shapiro Brothers, Division of MW Recycling, LLC (Shapiro), located at the above address. The compliance evaluation inspection was conducted under the authority of the Resource Conservation and Recovery Act (RCRA) of 1976 and Sections 260.375(9) and 260.377 of the Missouri Hazardous Waste Management Law (1977) as amended. The purpose of the inspection was to determine the facility's compliance with the Missouri Hazardous Waste Management Law and Regulations. The generator compliance evaluation inspection was conducted by Ms. Heberlie. A wastewater treatment inspection was conducted by Mr. Hessel. An air pollution inspection was conducted by Mr. Bernat. Those reports will be sent under a separate cover.

The inspections were conducted in response to a complaint received from the City of Festus concerning sediment being tracked onto city streets from the site. Sampling of the sediment conducted by the city indicated elevated lead levels in the sediment.

FACILITY DESCRIPTION:

Shapiro is a full service scrap metal processing facility located in eastern Missouri. Company operations include scrap metal processing facilities in Festus, Missouri and Moberly, Missouri. The Festus facility has been at 9th and Delmar Streets since 1946. Hours of operation are 7:00 am to 5:00 pm, Monday through Friday. The scrap metal processing operations occupy 8 acres of the 15-acre site, which is bordered on the east by retail businesses and on the west by residential areas. The Festus facility currently has 40 employees. On September 16, 2011, Shapiro Brothers, Inc. was sold to PSC Metals. Shapiro Brothers is now a division of M W Recycling, LLC.

Shapiro primarily deconstructs old railroad cars, including tanker cars that are certified empty and clean. In addition to deconstructing railroad cars, the facility processes automobiles and miscellaneous metal parts for scrap metal. Shapiro accepts automobiles from licensed salvage dealers and requires all fluids be drained from the vehicles prior to acceptance. The railcars go through a stationary shearing process prior to being cut, shredded and bailed. After the material is shredded, the material gets separated. A large magnet pulls the metal out of the shredded residue and the final product gets sent to various steel foundries for additional processing. The remaining material is sent through a separate conveyor system and gets deposited into the automobile shredder residue (auto fluff) pile. The specific wastes associated with auto fluff include foam, rubber, plastic, fabric, carpet, metallic pieces, wire, dirt and glass. The auto fluff is then used as Alternate Daily Cover (ADC) at the IESE Timber Ridge Landfill.

Shapiro uses an integrated water recycling system to wash tires and wheels of trucks upon exiting the scrap yard. The system was installed approximately three weeks prior to the inspection. The wash water drains into a 2,500-gallon self-contained underground holding tank from which it is reused. Flocculant is added to the tank to allow solids to settle out. The system continually scrapes the solids from the bottom of the tank and disposes of the dewatered solids through a discharge shoot into a ½-yard metal holding bin where they are stored for future disposal.

Shapiro generates the following waste streams:

1. Street Sweeping Sediments: The waste stream consists of street sweepings from a vacuum sweeper that sweeps sediments from nearby streets one to two times per day. An undetermined amount of street sweepings is generated monthly. The material is currently being put into the auto shredder residue pile, which then goes to the landfill in the form of auto fluff to be used as Alternate Daily Cover (ADC).

2. Dewatered Solids (D008): The waste stream consists of dewatered solids and sediments from the tire and wheel truck wash. At the time of the inspection, the dewatered solids had not been characterized or disposed of yet. The steel container holding the solids is approximately a ½-yard in size.

3. Auto Shredder Residue (Auto Fluff): Less than 1,000 tons per month of auto fluff is delivered by KA Pazdera Hauling to IESI's Timber Ridge Landfill for use as ADC. A TCLP analysis needs to be done for a hazardous waste determination on the fluff material.

4. Used Oil (Non-RCRA Regulated): Used oil is generated from maintenance activities at the maintenance shop. Used oil is also generated from maintenance of loaders, gear boxes, trucks and other equipment. Approximately 250 gallons are generated yearly in an above ground tank, which is stored outside. Heritage-Crystal Clean, LLC handles the recycling of the used oil.

5. Batteries (Non-Universal Waste): Batteries are generated from maintenance of equipment. The batteries are stored in the non-ferrous building on-site before they are shipped to the Granite City facility for accumulation. The batteries are managed under 40 CFR 266.88. The batteries are sent to Doe Run – Boss for reclamation.

UNSATISFACTORY FEATURES:

1. **Failure to determine if waste is hazardous, in violation of 10 CSR 25-5.262(1) incorporating 40 CFR 262.11.** Shapiro has not determined if the dewatered solids from the truck wash system are a hazardous waste. The solids are currently accumulated in a storage bin onsite. Since the truck wash system had only been in place for three weeks prior to the inspection, Mr. Greg Shapiro stated that the solids had not yet been characterized or disposed of. Sampling conducted by the Department of the dewatered solids at the time of the inspection indicated that the solids are a D008 hazardous waste (Sample #AB59475). Sample analysis results are included in the RCRA Site Investigation Report (see Attachment), prepared by the Environmental Services Program.

   Shapiro must manage the dewatered solids from the truck wash system in accordance with the Missouri Hazardous Waste Management Law and Rules, including proper management while accumulated onsite (i.e. package, mark, label, storage time limits, etc…) and disposal at a permitted treatment, storage or disposal facility. The bin utilized to accumulate the solids must be maintained in good condition and waste must not be allowed to discharge from the bin.

   Shapiro must determine the generation rate and/or accumulation rate of the waste and submit a Notification of Regulated Waste Activity (NORWA) Form to register at the applicable generator status. A NORWA Form and a Hazardous Waste Generator Status Guidance Bulletin are enclosed.

   Street sweeping waste is currently disposed of in the auto fluff pile. Shapiro has not determined if this waste is hazardous. Soil samples were collected from roadways and staging areas within the site. The analytical results of the samples indicated high concentrations of lead (failed TCLP) in several of the samples (#AB59477, #AB59478, #AB59479). As a result, the sediment tracked onto the streets potentially could contain

high lead levels. Further, sampling conducted recently by the City of Festus of sediment accumulated on roadways adjacent to the site has indicated high concentration of lead.

Shapiro must immediately cease disposing of the street sweeping waste in the fluff pile until a hazardous waste determination can be made on the material. Information used to make the determination (such as lab analysis results) must be submitted to the Department. In addition, Shapiro must store the street sweeping waste in a manner that will prevent its' release to the environment (i.e. closed container).

COMMENTS:

1. Based on levels of lead found on-site, as well as the disposal of street sweeping waste into the fluff pile, the auto fluff has the potential to exhibit the hazardous waste characteristic of toxicity for heavy metals (lead).

   The Department strongly recommends that Shapiro make a hazardous waste determination of the auto fluff currently generated at the facility. Information used to make the determination (such as lab analysis results) must be submitted to the Department. The Department recommends that Shapiro cease sending the auto fluff offsite for use as Alternate Daily Cover until a determination is made.

2. Based on elevated levels of lead found throughout the soil on-site, Shapiro must take actions to ensure hazardous constituents are not allowed to leave the property via vehicles tracking sediment off the property, airborne dust blowing from the site or storm water discharging off the site. Once the material leaves the property, it is considered disposal of hazardous waste into the environment. Additional information on the air and water pollution requirements will be provided in separate correspondence.

Technical guidance concerning hazardous waste generator status guidance, hazardous waste management and notification of regulated waste activity forms can be obtained from the Department's website at http://dnr.mo.gov/pubs/index.html#HazardousWaste.

Prepared by:

Vickie L. Heberlie

Vickie L. Heberlie
Environmental Specialist III
Jefferson County Satellite Office

Reviewed by:

Joseph L. Trunko
Waste Management Unit Chief
St. Louis Regional Office

VLH/JLT/jh

JEFFERSON CITY MO 65102

MISSOURI DEPARTMENT OF NATURAL RESOURCES

NOTICE OF VIOLATION

TRACKING NUMBER

SLR 20111110 07382748

DATE ISSUED	TIME ISSUED	REGION/PROGRAM
11-22-11		St.Louis Regional Office (SLRO)

SOURCE (NAME, ADDRESS, PERMIT NUMBER, LOCATION)

Shapiro Brothers, Division of MW Recycling, LLC

9th & Delmar Streets

Festus, MO 63028

MOR000021907 / 036446

MAILING ADDRESS	CITY	STATE	ZIP CODE
P.O. Box 759	Festus	MO	63028

NAME OF OWNER OR MANAGER	TITLE OF OWNER OR MANAGER	COUNTY
Mr. Greg Shapiro	Vice President of Operations	Jefferson

LAW, REGULATION OR PERMIT VIOLATED

10 CSR 25-5.262(1) incorporating 40 CFR 262.11

NATURE OF VIOLATION	DATE(S):	TIME(S):
Failure to determine if waste is hazardous	09-14-2011	

SIGNATURE (PERSON RECEIVING NOTICE)	SIGNATURE (PERSON ISSUING NOTICE)
Sent by Certified Mail	Vickie Heberlie Vickie Heberlie
TITLE OR POSITION	TITLE OR POSITION
	ES III / SLRO-JCSO

ADDENDUM

LOCATIONAL DATA

UTM EASTING	UTM NORTHING
HORIZONTAL COLLECTION METHOD	ESTIMATED POSITION ERROR OR PDOP
REFERENCE POINT	COORDINATE DATA SOURCE

ADDITIONAL COMMENTS

IMAGE 1	IMAGE 2

MISSOURI DEPARTMENT OF NATURAL RESOURCES

HAZARDOUS WASTE PROGRAM

SMALL QUANTITY GENERATOR INSPECTION CHECKLIST

S

FOR FACILITIES THAT GENERATE/ACCUMULATE <1000 Kg (2,200 lbs, or approximately 5 drums and <2.2 lbs of acutely hazardous waste)

NAME	DATE	EPA ID NUMBER
Shapiro Brothers, Div of MW Recycling	09-14-2011	

ADDRESS	RR NUMBER	MO ID NUMBER	TELEPHONE NUMBER
9th & Delmar Streets			(636) 937-9185 ext

CITY	COUNTY	ZIP CODE	YEARS AT SITE	NUMBER OF EMPLOYEES
Festus	Jefferson	63028	65	40

DATE OF LAST INSPECTION	REGIONAL OFFICE	TRACKING NUMBER
07-08-2008	St. Louis Regional Office (SLRO)	SLR 20111107 15425652

PRIMARY CONTACT NAME	PRIMARY CONTACT TITLE
Mr. Greg Shapiro	VP of Operations
SECONDARY CONTACT NAME	**SECONDARY CONTACT TITLE**
Mr. Dave Shapiro	VP of Commercial

CHECKLIST ATTACHMENTS

USED OIL GENERATOR	RESOURCE RECOVERY	TANK ATTACHMENT	UNIVERSAL WASTE ATTACHMENT
☑ YES ☐ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

DESCRIPTION OF THE FACILITY'S OPERATIONS AND PLANT

Included in narrative report.

WASTE STREAMS

DESCRIBE EACH WASTE STREAM GENERATED (INCLUDING THE PRODUCTION PROCESS)	GENERATION RATE	EPA WASTE CODES	DISPOSITION
1. Street Sweeping Sediments: Generated from street sweeping sediments from nearby streets.	Undetermined	Undetermined	Auto Shredder Fluff - Sanitary Landfill
2. Dewatered Solids (RCRA Regulated): Generated from tire and wheel truck wash for trucks exiting scrap yard.	Undetermined	D008	Unknown
3. Auto Shredder Fluff: Generated from shredding of railroad cars, automobiles, and miscellaneous metal. Includes rubber, foam, plastic, wire, carpet, fabric, dirt, glass, etc.	Undetermined	Undetermined	Alternate Daily Cover (ADC) - Sanitary Landfill
4. Used Oil (Non-RCRA Regulated): Used oil is generated from maintenance activities at the maintenance shop and maintenance of equipment.	Approximately 250-G / year	na	Heritage Crystal-Clean,
5. Batteries (Non-Universal Waste): Batteries are generated from maintenance of equipment. The batteries are managed under 40 CFR 266.88.	Undetermined	na	Reclamation at Doe Run - Boss
6.			

A. GENERAL	NO	YES	NA			COMMENTS
1.	☐	✓	☐	**Registered as a hazardous waste generator - Section 260.380.1(1) RSMo and 10 CSR 25.5.262(2)(A).**	1	Shapiro's has not done a hw determination on the dewatered truck solids. Analysis done by the Dept. on 9-14-11 indicates truck wash solids are a D008 hazardous waste. A HW determination has not been done on the auto shredder residue (aka auto fluff) or the street sweeping sediments currently being put into the auto fluff pile, which goes to a sanitary landfill as Alternate Daily Cover. Based on elevated lead levels found on-site, Shapiro needs to do a HW determination of the dewatered solids, street sweeping sediments and auto fluff material.
2.	✓	☐	☐	**Facility determines if waste is hazardous - 10 CSR 25-5.262(1) incorporating 40 CFR 262.11.**	1	
3.	☐	☐	☐	**Uses a licensed hazardous waste transporter - Section 260.380.1(5) RSMo.**	1	
4.	☐	☐	☐	**Uses authorized hazardous Waste TSD or RR facility - Section 260.380.1(7) RSMo.**	1	
5.	☐	☐	☐	**Does not operate as a TSD - Section 260.390.1(1) RSMo.**	1	
6.	☐	☐	☐	Facility has updated notification as required - 10 CSR 25-5.262(2)3.B.	2	
7.	☐	☐	☐	Materials are not accumulated speculatively - 10 CSR 25-4.261 incorporating 40 CFR 261.1(c)(8).	2	
8.	☐	☐	☐	Facility can demonstrate legitimate recycling - 10 CSR 25-4.261 incorporating 40 CFR 261.2(f).	2	

PART 1: WALK-THROUGH INSPECTION

B. PRETRANSPORT,CONTAINERIZATION & STORAGE						COMMENTS
1.	☐	☐	☐	**Storage does not exceed 180 days or 270 days if transported > 200 miles - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d) or 40 CFR 262.34(e).**	1	
2.	☐	☐	☐	**Containers in good condition - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.171.**	1	
3.	☐	☐	☐	**Waste compatible with container - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.172.**	1	
4.	☐	☐	☐	**Containers closed in storage - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.173(a).**	1	
5.	☐	☐	☐	**Containers storing incompatible waste separated or protected from each other by a dike, berm or wall - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.177(c).**	1	
6.	☐	☐	☐	Containers of ignitable or reactive waste stored > 50 ft. from property line (or meet requirements) - 10 CSR 25-5.262(2)(C)6 referencing 40 CFR 265.176 as amended by 10 CSR 25-7.265(2)(1) 7 & 8.	2	
7.	☐	☐	☐	Waste packaged/labeled/marked per DOT during entire on-site storage period - 10 CSR 25-5.262(2)(C)1.	2	
8.	☐	☐	☐	Date of accumulation marked on containers - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 262.34(a)(2).	2	
9.	☐	☐	☐	Containers protected from contact with accumulated liquids - 10 CSR 25-5.262(2)(C)2.D(II).	2	
10.	☐	☐	☐	Containers clearly marked "Hazardous Waste" - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 262.34(a)(3).	2	
11.	☐	☐	☐	Facility inspected and maintained (weekly) - 10 CSR 25-5.262(2)(C)2.C(I)&(II) referencing 40 CFR 265.174.	2	
12.	☐	☐	☐	Daily inspection of areas subject to spills, i.e., waste handling areas - 10 CSR 25-5.262(2)2.C(II).	2	
13.	☐	☐	☐	Adequate aisle space is available - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.35.	2	
14.	☐	☐	☐	Placards available for transporter - 10 CSR 25-5.262(1) incorporating 40 CFR 262.33.	2	
15.	☐	☐	☐	Precautions are taken to prevent accidental ignition or reaction of ignitable or reactive wastes, including confining smoking and open flame to specially designated locations and conspicuously placing "No Smoking" signs by ignitable or reactive wastes - 10 CSR 25-5.262(2)(C)2.F(II).	2	

C. SATELLITE ACCUMULATION	NO	YES	NA			COMMENTS
1.	☐	☐	☐	**Containers kept closed - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(C)(1)(i) referencing 40 CFR 265.173(a).**	1	
2.	☐	☐	☐	**Containers in good condition - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1)(i) referencing 40 CFR 265.171.**	1	
3.	☐	☐	☐	**Waste compatible with container - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1)(i) referencing 40 CFR 265.172.**	1	
4.	☐	☐	☐	**Quantities accumulated not exceeding 55 gallons (1 quart of acutely hazardous wastes) - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1).**	1	
5.	☐	☐	☐	**Satellite containers go to storage within 3 days of filling - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(2).**	1	
6.	☐	☐	☐	Container marked identifying contents and beginning date - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1)(ii) as modified by 10 CSR 25-5.262(2)(C)3.	2	
7.	☐	☐	☐	Stored in satellite areas less than 1 year - 10 CSR 25-5.262(2)(C)3.	2	
8.	☐	☐	☐	Satellite containers stored at or near the point of waste generation and under the control of the operator - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1).	2	

D. PREPAREDNESS, PREVENTION AND EMERGENCY PROCEDURES	NO	YES	NA			COMMENTS
1.	☐	☐	☐	**Facility operated and maintained to minimize the possibility of an emergency - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.31.**	1	
2.	☐	☐	☐	Adequate and proper spill control, decontamination and safety equipment available (fire blankets, respirators, SCBA, absorbents, etc.) - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.32 as amended by 10 CSR 25-5.262(2)(C)2.G.	2	
3.	☐	☐	☐	Adequate water supply and fire control equipment - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.32(c) and (d).	2	
4.	☐	☐	☐	Communication and emergency equipment tested and maintianed - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.33.	2	
5.	☐	☐	☐	Emergency Coordinator's name and phone number posted near phone - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(ii)(A).	2	
6.	☐	☐	☐	Telephone number of fire department posted near phone - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(ii)(C).	2	
7.	☐	☐	☐	Location of fire extinguisher and spill control equipment posted near phone - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(ii)(B).	2	
8.	☐	☐	☐	Employees familiar with waste handling and emergency procedures - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(iii).	2	
9.	☐	☐	☐	Device in the hazardous waste operation area capable of summoning emergency assistance - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.34(a).	2	
10.	☐	☐	☐	Telephone or two-way radio on-site and capable of summoning local fire or police department, or local or state emergency response teams - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.32(b).	2	
11.	☐	☐	☐	Arrangements with local emergency agencies - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.37.	2	
12.	☐	☐	☐	Emergency coordinator(s) on premise or on call - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(i).	2	

E. MANIFESTS	NO	YES	NA			COMMENTS
1.	☐	☐	☐	**Facility uses manifest system or wastes reclaimed under contractual agreement - Section 260.380.1(6) RSMo and 10 CSR 25-5.262(2)(B) or 10 CSR 25-5.262(1) incorporating 40 CFR 262.20(e)1.**	1	
2.	☐	☐	☐	**Tests waste or uses knowledge of waste to determine if the waste is restricted from land disposal - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a).**	1	
3.	☐	☐	☐	Generator maintains a copy of the reclamation agreement on-site for at-least 3 years after expiration of agreement - 10 CSR 25-5.262(1) incorporating 40 CFR 262.20(e)(2).	2	
4.	☐	☐	☐	Manifests maintained for a 3-year period - 10 CSR 25-5.262(1) incorporating 40 CFR 262.40(a).	2	
5.	☐	☐	☐	Generator's EPA ID number - 10 CSR 25-5.262(1) incorporating 40 CFR 262.20(a) as amended by 10 CSR 25-5.262(2)(B)1.	2	
6.	☐	☐	☐	Generator's name, address and phone number - 10 CSR 25-5.262(2)(B)1.	2	
7.	☐	☐	☐	All transporter's names and EPA ID numbers - 10 CSR 25-5.262(2)(B)1 & 2.	2	
8.	☐	☐	☐	Designated facility name, address, phone number and EPA ID numbers - 10 CSR 25-5.262(2)(B)1 & 2.	2	
9.	☐	☐	☐	DOT shipping name, Hazard class and waste ID number (RQ - if required) - 10 CSR 25-5.262(2)(B)1 & 2.	2	
10.	☐	☐	☐	Containers and Quantity - 10 CSR 25-5.262(2)(B) 1 and 2.	2	
11.	☐	☐	☐	Manifest signed and dated - 10 CSR 25-5.262(2)(B) 1.	2	
12.	☐	☐	☐	Manifest returned within 35 days - or exception report submitted within 45 days - 10 CSR 25-5.262(2)(D)2.C.	2	
13.	☐	☐	☐	"Land-Ban" notification/certification sent with manifests or with first shipment - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a).	2	
14.	☐	☐	☐	Notification/Certification includes correct EPA hazardous waste number, corresponding treatment standards, manifest number, and waste analysis data - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(b).	2	

COMMENTS: INCLUDE DISCUSSION OF FACILITY'S WASTE MINIMIZATION PLAN

APC	PDW	SWM	HW	WPC	
☐ Fugitive Dust	☐ Taste & Odors	☐ Open Dumps	☐ Transportation	☐ Animal Waste	☐ Single Family
☐ Particulate	☐ Bacteria	☐ Littering	☐ PCBs	☐ ByPassing	☐ Ground Water
☐ Burning	☐ Pressure	☐ Waste Tire Dump	☐ USTs/LUSTs	☐ Treatment Plant Operation	☐ Storm Water
☐ Asbestos	☐ Color	☐ SLF	☐ Other	☐ Sawdust	☐ Toxics/UST
☐ Odors	☐ Flow	☐ Other		☐ Sludge	☐ Other
☐ Toxics	☐ Toxics				
☐ Other	☐ Other				

COMMENTS

INSPECTOR'S SIGNATURE: Vickie L. Heberlie

DATE: 09-14-2011

MISSOURI DEPARTMENT OF NATURAL RESOURCES
HAZARDOUS WASTE PROGRAM

SMALL QUANTITY GENERATOR - USED OIL ATTACHMENT

S-O

NAME	EPA ID NUMBER
Shapiro Brothers, Div of MW Recycling	
CITY	MO ID NUMBER
Festus	

USED OIL GENERATOR

(If Used Oil Processor, Re-refiner, Marketer, Collection, Aggregation Point, Transporter, or Transfer Facility, Please use Appropriate Checklist).

F. USED OIL STORAGE	NO	YES	NA			COMMENTS
1.	☐	☑	☐	**Used oil is managed properly and not disposed of into the environment or cause a public nuisance - 10 CSR 25-11.279(2)(B)4.B.**	1	Due to pending sale of business, used oil was not on-site during inspection. However, used oil is stored on-site in 250-gallon aboveground tank, located outside. The used oil gets disposed of by Heritage Crystal Clean.
2.	☐	☑	☐	**Containers in good condition - 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(b)(1).**	1	
3.	☐	☑	☐	**Containers storing used oil are not leaking - 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(b)(2).**	1	
4.	☐	☑	☐	Containers / aboveground tanks are labeled or marked clearly "used oil" - 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(c)(1).	2	
5.	☐	☐	☑	Fill pipes used to transfer used oil into underground storage tanks are labeled or marked clearly "used oil" - 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(c)(2).	2	
6.	☐	☑	☐	Containers/tanks which are exposed to rainfall are closed - 10 CSR 25-11.279(2)(C)6.	2	
7.	☐	☑	☐	Clean up any spills or leaks of used oil - 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(d).	2	
8.	☐	☐	☑	Mixtures of used oil and hazardous waste are managed according to state hazardous waste regulations - 10 CSR 25-11.279(2)(B)2.	2	

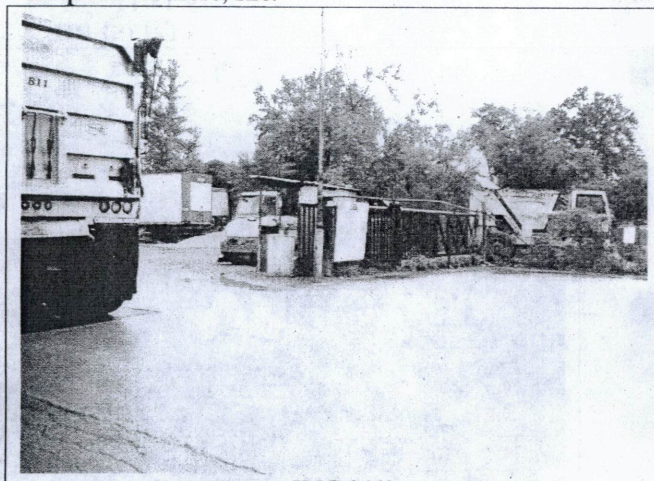
G. ON-SITE BURNING						COMMENTS
1.	☐	☐	☑	**Burn only their own used oil or used oil from DIY'ers or exempt farmers - 10 CSR 25-11.279(1) incorporating 40 CFR 279.23(a) as amended by 10 CSR 25-11.279(2)(A)1.**	1	
2.	☐	☐	☐	**Burn only in space heaters with design capacity < .5 million BTU/hr - 10 CSR 25-11.279(1) incorporating 40 CFR 279.23(b).**	1	
3.	☐	☐	☑	**Combustion gases from the heater are vented to the ambient air - 10 CSR 25-11.279(1) incorporating 40 CFR 279.23(c).**	1	

H. OFF-SITE SHIPMENTS TO APPROVED COLLECTION CENTERS						COMMENTS
1.	☐	☑	☐	**Used oil is transported by transporters who have obtained EPA identification numbers unless one of the following is met - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24.**	1	
40CFR 279.24(a)						
2.	☐	☐	☑	Transports used oil in a vehicle owned by the generator or owned by an employee of the generator - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(a)(1).	2	
3.	☐	☐	☑	Transports no more than 55 gallons of used oil at any time - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(a)(2).	2	
4.	☐	☐	☑	Transports the used oil to a used oil collection center that is registered, licensed, permitted or recognized by a state/county/municipal government to manage used oil - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(a)(3).	2	
OR 40 CFR 279.24(b)						
5.	☐	☐	☑	Transports the used oil to an aggregation point that is owned by and/or operated by the same generator - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(b)(3).	2	
OR 40 CFR 279.24(c)						
6.	☐	☐	☑	Used oil is reclaimed under a contractual agreement (tolling arrangement) - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(c).	2	

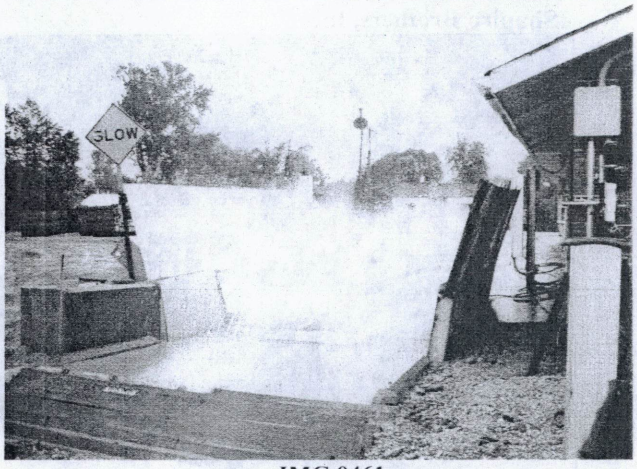
ADDENDUM

LOCATIONAL DATA	
UTM EASTING	UTM NORTHING
HORIZONTAL COLLECTION METHOD	ESTIMATED POSITION ERROR OR PDOP
REFERENCE POINT	COORDINATE DATA SOURCE

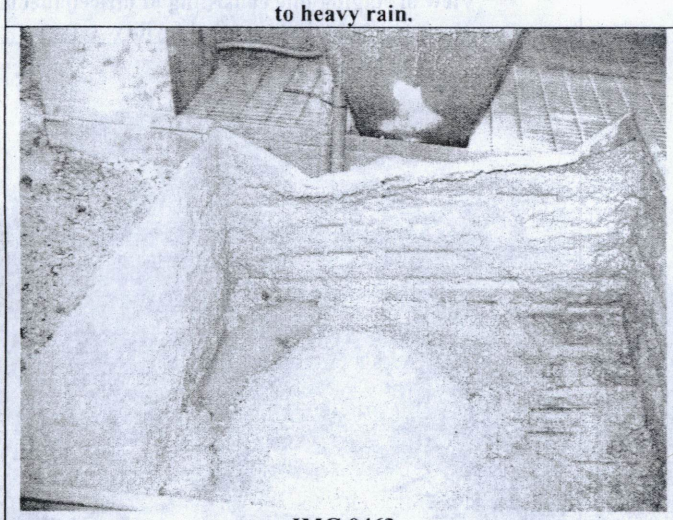
ADDITIONAL COMMENTS	
IMAGE 1	IMAGE 2



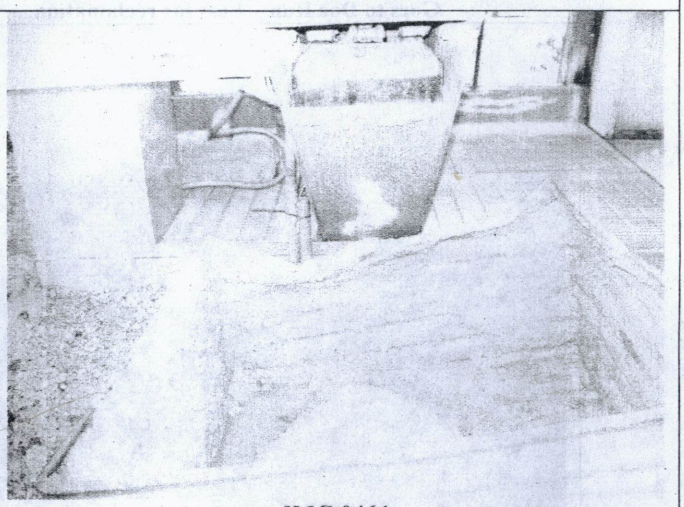
IMG 0460
View of facility entrance at 9th & Delmar Streets. Recently rented vacuum street sweeper not in use during inspection due to heavy rain.



IMG 0461
View of new truck tire and wheel wash system located near facility entrance/exit at 9th & Delmar Sts.

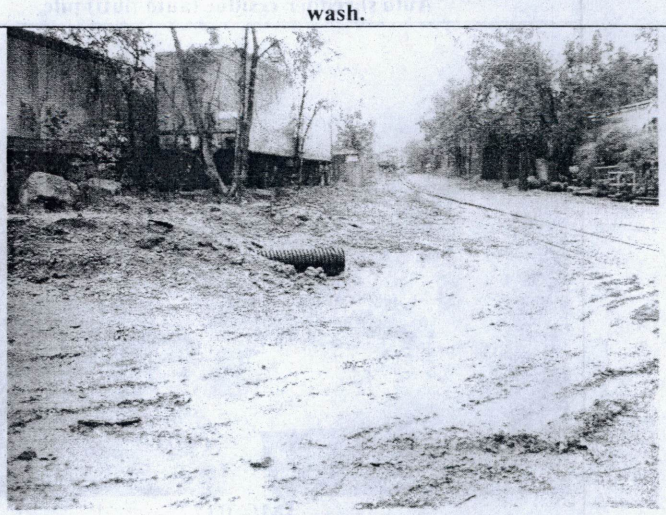


IMG 0463
View of de-watered solids from truck wash deposited in open bin, located outside.



IMG 0464
Another view of bin holding de-watered solids from truck wash.

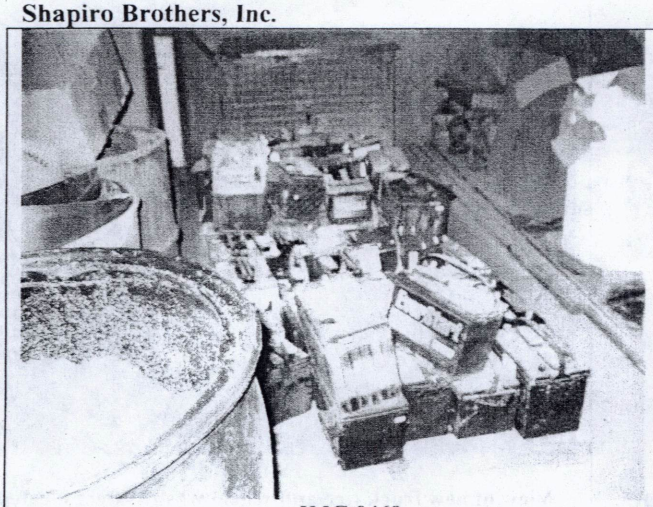
IMG 0466
View of bottom of bin holding HW de-watered solids. Rainwater falling into bin is being released out bottom of bin and draining into on-site storm drain.



IMG 0467
View of storm drain, just east of truck wash station, where storm water is running out of HW de-watered solids catch basin onto the ground.

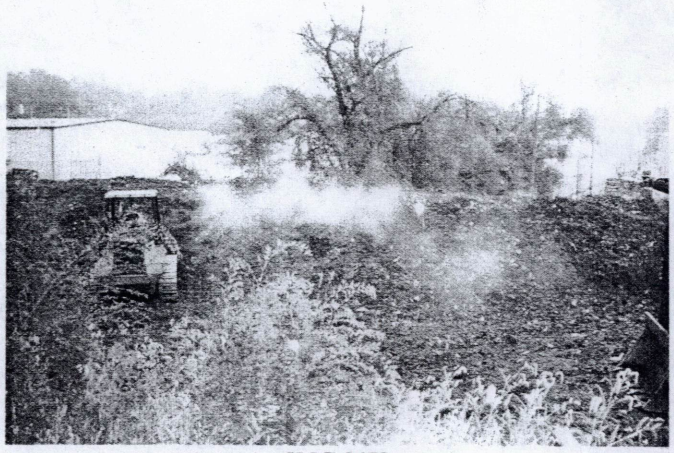
Jefferson County (HW)
Shapiro Brothers, Inc.

9-14-11
VLH (SLRO)

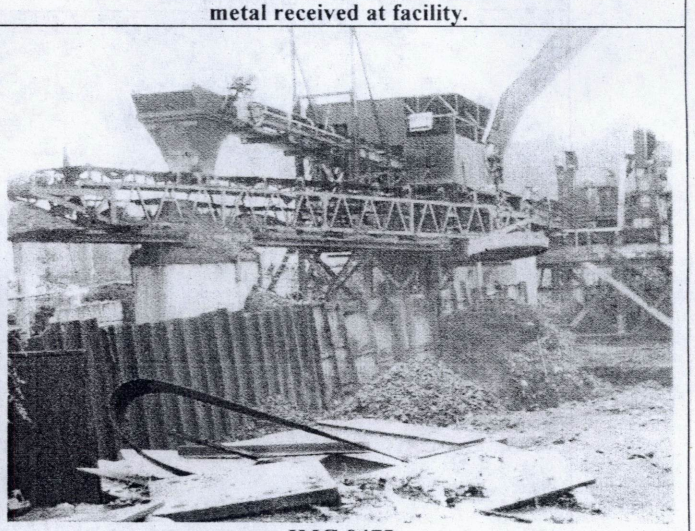


IMG 0469
Batteries stored on-site in non-ferrous building.
Goes to Doe Run – Boss for reclamation.

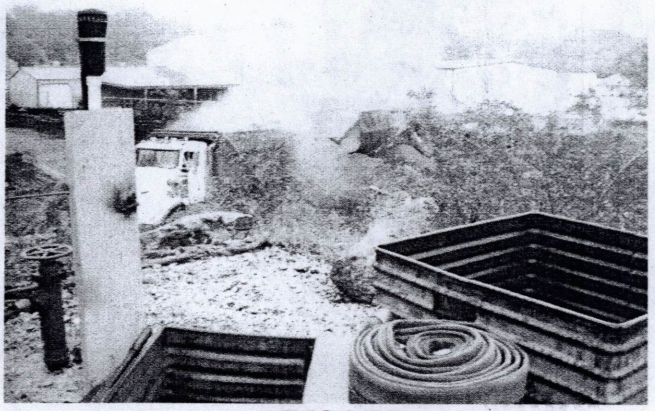
IMG 0472
View of staging pile consisting of miscellaneous metal received at facility.



IMG 0473
Auto shredder residue (auto fluff) pile.



IMG 0475
View of metals being separated from auto fluff material.



IMG 0477
View of auto fluff being loaded into dump truck destined for sanitary landfill as alternate daily cover. Dust being generated during loading process.

RCRA SITE INVESTIGATION REPORT SHAPIRO BROTHERS, INC. SCRAP YARD SITE

Order Number: 110915002

Jefferson County

Festus, Missouri

Site Information:

ESP LDPR Code:	FERCA	ESP Lead:	Sean Counihan
Job Code:	NJ12SHAP	Investigation Date:	9/14/2011

Introduction:

The Missouri Department of Natural Resources (MDNR), Hazardous Waste Program (HWP), requested the MDNR, Environmental Services Program (ESP) to conduct sampling as part of an investigation at a site identified as the Shapiro Brothers Inc. Scrap Yard Site. The HWP was represented at the site by Evan Bryant. Vickie Heberlie, Jim Hessel, and Darren Bernat from the MDNR St. Louis Regional Office were on hand to conduct a multi-media inspection. Sampling was conducted in order to determine if any hazardous material was present and possibly moving off site.

The site is Shapiro Brothers, Inc. located at 9th Street and Delmar Street, Festus, Missouri. Shapiro Brothers, Inc. is a scrap metal processor. Shapiro Brothers is a demolition contractor, Union Pacific often uses them to dismantle out of service rail cars, and they offer transportation services to their clients for scrap metal materials. All metals are brought to their location to be processed with a 450 horsepower shear or 3500 horsepower shredder. The metal is processed and compressed into sizes that are accepted by a steel mill for recycling. All non-metal items are separated out (auto fluff) during the process and taken to a landfill. This site has come under question because of some complaints, to the City of Festus by nearby residents, of the dust the site creates. The City collected a composite soil sample from street debris surrounding the site (9th, Delmar, and Vine). The results from analysis on that sample failed TCLP for lead. The site latitude and longitude are 38.23001°, -90.39035°. Information in this report will be used in determining the need for additional actions at the subject site.

Field Methods:
Site access was granted from the owner of the property at the time of inspection. Samples were collected from nine locations throughout the site (six soil samples and three surface/storm water samples). Sampling data and observations were recorded in a bound field logbook. New stainless steel spoons were used to collect each surface soil grab sample and the containers for water sample collection were immersed directly into the water/stream. Appropriate containers and chemical preservation techniques were employed during field activities. Eight-ounce glass jars were used to collect soils for analysis of seven RCRA metals including arsenic (As), barium (Ba), cadmium (Cd), chromium (Cr), lead (Pb), selenium (Se) and silver (Ag). Surface water run off was collected in two – one liter amber glass bottles for oil and grease analysis, and one – 250ml Nalgene bottle for total metals analysis for seven RCRA metals including arsenic (As), barium (Ba), cadmium (Cd), chromium (Cr), lead (Pb), selenium (Se) and silver (Ag). All samples received a numbered label and the corresponding number entered onto a chain-of-custody form indicating the description, location, date and time of collection, and analytes requested. Samples were stored and transported on ice in coolers. ESP field personnel maintained custody of the samples until relinquishing them to a sample custodian at the state's environmental laboratory within the Environmental Services Program in Jefferson City for analyses.

Observations:
The weather was cloudy and rainy with temperatures around 70 degrees Fahrenheit. The inspection team arrived on site around 0900 hours. The site owner, Greg Shapiro, was not on site and requested that we start our inspection upon his arrival. Mr. Shapiro arrived around 0945. His brother Dave Shapiro, along with NPN Environmental Consultants Dave Rowe and Brian Gregory were also present for the inspection. The inspection started with a meeting with the owners, followed by a walkthrough of the facility property where sampling locations were determined.

Sampling began just before 1200 hours. The facility installed a truck wash station at the main entrance to the facility several weeks ago. This station would wash the tires and undercarriage of vehicles entering and leaving the site. The water from the wash would be circulated through the wash jets with new water being introduced periodically to keep the system with a certain volume of water. All solid particles that were removed during the wash settled to the bottom. A series of scrapers attached to a conveyor belt removes the solids to a container on the exterior of the machine. This waste will be mixed with other material to be sent to a landfill. Since this is a new system this waste stream has not been tested or characterized. No discharged material from this machine has been disposed of up to the time of sampling. Sample 1 (1106418) was a surface water sample from the wash station. This sample was brown in color and very turbid. It also appeared oily. Sample 2 (1106419) was a soil/sediment sample collected from the discharge container of the wash station. This sample was gray to light brown in color, and had a variety of particle sizes from silt to gravel. The property has a storm water drain near the

truck wash station. It collects storm water that flows down hill from the operations part of the facility, as well as overspray from the wash station, and drainage from the front entrance. A small creek flows along the east border of the facility property. This storm drain has an outfall to the creek at the south east corner of the property. Sample 3 (1106420) was collected from this outfall. This location is near the junction of the railroad crossing on 9th Street. The sample was mostly clear with a slight amount of turbidity. Sample 4 (1106421) was a soil sample collected from the center of the road (near the entrance) north of the truck wash and north of the non-ferrous building. The sample was silt/gravel mixture with a light brown to caramel color. Traveling north through the facility two staging piles are encountered. The first one encountered contains mainly industrial type metals, which is processed through one machine. The other pile, mainly automobiles, is processed through a different machine. A soil sample was collected from an open spot at the bottom of the first pile along the edge. This was Sample 5 (1106422). This sample had dark brown to black color. Another roadway soil sample, Sample 6 (1106423), was collected about midway through the facility property (heading north) along the main road on the west side of the property. This sample had the same color and texture\composition as Sample 4. The north end of the property has another entrance (off Vine Street), for use by Shapiro Brothers trucks only. A soil sample, Sample 7 (1106424), was collected from the middle of the roadway at this entrance. As with the other two roadway samples, this sample was a light brown/caramel color with varying composition. The auto fluff pile was at the north east end, down gradient, and directly across from the Vine Street entrance. This is the pile of all non-metal materials that was separated out of the shredders. They load this material in large trucks and haul to a landfill daily. Sample 8 (1106425) was a soil sample collected from exposed soil in this area. The soil was variable in color from black to light brown and had auto fluff mixed with the top layer of soil. Another storm water outfall exists on the north side of the facility fence. This is storm water runoff from the roadways. It once drained onto facility property, but because of interference with operation, Shapiro Brothers took it upon themselves to bury the line and run it underground to the stream. There is a small junction that is exposed where the line comes out from the street and where Shapiro Brothers put in a drain. A water sample was collected from this outfall, Sample 9 (1106426). Sample 9 was clear and colorless. Refer to sampling locations map and site photographs (Appendix C).

Results:

The analytical results are attached to this report as Appendix A. Chain of custody records are attached as Appendix B. Site photographs and a sampling locations map are attached as Appendix C. Field notes are attached as Appendix D.

Submitted by:

Sean Counihan
Environmental Specialist
Field Services Unit
Environmental Services Program

Digitally signed by Eric Sappington
DN: cn=Eric Sappington, c=US, o=Missouri Department of Natural Resources, ou=ESP-EER, email=eric.sappington@dnr.mo.gov
Date: 2011.11.03 13:32:15 -05'00'

Approved by:

Eric Sappington
Unit Chief
Field Services Section
Environmental Services Program

BA:smc

c: Evan Bryant, HWP

Appendix A

Shapiro Brothers, Inc. Scrap Yard Site
Analytical Results

Missouri Department of Natural Resources
Environmental Services Program

Order ID 110915002 **Program, Contact:** HWP Dennis Hanson

Report Date: 10/03/2011 **LDPR/JobCode:** FERCA / NJ12SHAP

ample: AB59474

Customer #: 1106418

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN **Affiliation:** ESP **Collect Date:** 9/14/2011 12:05:00PM
Entry Point:
Sample Comment: Grab sample #1106418, collected from Wash Station.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
20 Metals-Total Recoverable	Arsenic	10.8		µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Barium	775	09	µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Cadmium	23.9	06	µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Chromium	26.9		µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Lead	2610	09	µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Selenium	2.08	05	µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Silver	0.51	06, 05	µg/L	12,636	SW 846 6020
eld Dissolved Oxygen	Field Dissolved Oxygen	4.42		mg/L		SM 4500-O-G
eld pH	Field pH	8.26		pH Units		EPA 150.1
eld Specific Conductivity	Field Specific Conductivity	794 uS/cm				SM 2510
eld Temperature	Field Temperature	19.5 C				EPA 170.1
il And Grease	Oil And Grease	<2	ND	mg/L	12,653	1664

ample: AB59475

Customer #: 1106419

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN **Affiliation:** ESP **Collect Date:** 9/14/2011 12:10:00PM
Entry Point:
Sample Comment: Grab sample #1106419, collected from sediment pile that is removed from Wash Station. Has not been previously classified by facility - is a new system and new waste.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
010B Metals-Total Recoverable	Arsenic	11000	06	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Barium	504000		µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Cadmium	18600		µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Chromium	63900		µg/kg	12,631	SW 846 6010B

ample: AB59475

Customer #: 1106419

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:10:00PM
Entry Point:
Sample Comment: Grab sample #1106419, collected from sediment pile that is removed from Wash Station. Has not been previously classified by facility - is a new system and new waste.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
10B Metals-Total Recoverable	Lead	2220000		µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Silver	7110	09	µg/kg	12,631	SW 846 6010B
rcent Moisture	Percent Moisture	20.2		%	12,557	Infrared Drying

ample: AB59476

Customer #: 1106420

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:23:00PM
Entry Point:
Sample Comment: Grab sample #1106420 collected from Storm Water outfall on southeast end of property near 9th and railroad crossing.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
20 Metals-Total Recoverable	Arsenic	8.65		µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Barium	323	09	µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Cadmium	30.9		µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Chromium	22.2		µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Lead	2110	09	µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Selenium	2.14	05	µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Silver	0.56	05	µg/L	12,636	SW 846 6020
eld Dissolved Oxygen	Field Dissolved Oxygen	5.10		mg/L		SM 4500-O-G
eld pH	Field pH	7.99		pH Units		EPA 150.1
eld Specific Conductivity	Field Specific Conductivity	1023 uS/cm				SM 2510
eld Temperature	Field Temperature	19.4 C				EPA 170.1
il And Grease	Oil And Grease	<2	ND	mg/L	12,653	1664

ample: AB59477

Customer #: 1106421

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:34:00PM
Entry Point:
Sample Comment: Grab sample #1106421 collected from roadway north of truck wash entrance just north of non-ferrous building.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
010B Metals-Total Recoverable	Arsenic	8640		µg/kg	12,631	SW 846 6010B

ample: AB59477

Customer #: 1106421

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:34:00PM
Entry Point:
Sample Comment: Grab sample #1106421 collected from roadway north of truck wash entrance just north of non-ferrous building.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
10B Metals-Total Recoverable	Barium	420000		µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Cadmium	19200		µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Chromium	67300		µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Lead	2180000		µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Silver	872		µg/kg	12,631	SW 846 6010B
rcent Moisture	Percent Moisture	14.9		%	12,557	Infrared Drying

ample: AB59478

Customer #: 1106422

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:50:00PM
Entry Point:
Sample Comment: Grab sample #1106422 collected from first staging pile from entrance northwest side of pile near base.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
10B Metals-Total Recoverable	Arsenic	18700		µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Barium	697000	09	µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Cadmium	44800		µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Chromium	204000	09	µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Lead	5860000	09	µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Silver	6830	09	µg/kg	12,631	SW 846 6010B
rcent Moisture	Percent Moisture	14.7		%	12,557	Infrared Drying

ample: AB59479

Customer #: 1106423

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:47:00PM
Entry Point:
Sample Comment: Grab sample #1106423 collected from midway through main roadway between two main staging piles.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
10B Metals-Total Recoverable	Arsenic	8480		µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Barium	437000	09	µg/kg	12,631	SW 846 6010B

ample: AB59479

Customer #: 1106423

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:47:00PM
Entry Point:
Sample Comment: Grab sample #1106423 collected from midway through main roadway between two main staging piles.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
010B Metals-Total Recoverable	Cadmium	18500		µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Chromium	49100	09	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Lead	2210000	09	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Silver	5780		µg/kg	12,631	SW 846 6010B
ercent Moisture	Percent Moisture	26.7		%	12,557	Infrared Drying

ample: AB59480

Customer #: 1106424

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:03:00PM
Entry Point:
Sample Comment: Grab sample #1106424 collected from north end of main roadway near Vine Street entrance.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
010B Metals-Total Recoverable	Arsenic	8360		µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Barium	367000	09	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Cadmium	16000		µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Chromium	72400	09	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Lead	1590000	09	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Silver	1730		µg/kg	12,631	SW 846 6010B
ercent Moisture	Percent Moisture	19.3		%	12,557	Infrared Drying

ample: AB59481

Customer #: 1106425

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:09:00PM
Entry Point:
Sample Comment: Grab sample #1106425 collected from bottom of fluff pile.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
010B Metals-Total Recoverable	Arsenic	30300	09	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Barium	2180000	09	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Cadmium	74500		µg/kg	12,631	SW 846 6010B

ample: AB59481

Customer #: 1106425

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:09:00PM
Entry Point:
Sample Comment: Grab sample #1106425 collected from bottom of fluff pile.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
10B Metals-Total Recoverable	Chromium	427000	09	µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Lead	4420000	09	µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Silver	2520	09	µg/kg	12,631	SW 846 6010B
rcent Moisture	Percent Moisture	19.8		%	12,557	Infrared Drying

ample: AB59482

Customer #: 1106426

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:17:00PM
Entry Point:
Sample Comment: Grab sample #1106426 collected from Vine Street storm water outfall north end of property.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
20 Metals-Total Recoverable	Arsenic	0.96	05	µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Barium	46.3		µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Cadmium	0.54		µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Chromium	1.94		µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Lead	28.0		µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Selenium	<0.50	ND	µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Silver	<0.50	ND	µg/L	12,636	SW 846 6020
eld Dissolved Oxygen	Field Dissolved Oxygen	4.97		mg/L		SM 4500-O-G
eld pH	Field pH	7.78		pH Units		EPA 150.1
eld Specific Conductivity	Field Specific Conductivity	200 uS/cm				SM 2510
eld Temperature	Field Temperature	19.6 C				EPA 170.1
il And Grease	Oil And Grease	<2	ND	mg/L	12,653	1664

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S Environmental Protection Agency.

Chris Boldt

Chris Boldt, Laboratory Manager
Environmental Services Program
Division of Environmental Quality

Qualifier Descriptions

01 Improper collection method
02 Improper preservation
03 Exceeded holding time
04 Analyzed by Contract Laboratory
05 Estimated value, detected below PQL
06 Estimated value, QC data outside limits
07 Estimated value, analyte outside calibration range
08 Analyte present in blank at > 1/2 reported value
09 Sample was diluted during analysis
10 Laboratory error
11 Estimated value, matrix interference
12 Insufficient quantity
13 Estimated value, true result is >= reported value
14 Estimated value, non-homogeneous sample
15 No Result - Failed Quality Controls Requirements
16 Not analyzed - related analyte not detected
17 Results in dry weight
18 Sample pH is outside the acceptable range
19 Estimated value
20 Not analyzed - Instrument failure
21 No result - spectral interference
22 pH was performed at the Laboratory
23 Contract Lab specific qualifier - see sample comments
24 No result - matrix interference
25 No Result: Excessive Chlorination
26 No Result: Excessive Dechlorination
ND Not detected at reported value

Addendum

Missouri Department of Natural Resources
Environmental Services Program

Addendum

Reason: TCLP added per memo from project manager

Order ID 110915002 **Program, Contact:** HWP Dennis Hanson

Report Date: 10/03/2011 **LDPR/JobCode:** FERCA / NJ12SHAP

ample: AB59474

Customer #: 1106418

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN **Affiliation:** ESP **Collect Date:** 9/14/2011 12:05:00PM
Entry Point:
Sample Comment: Grab sample #1106418, collected from Wash Station.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
20 Metals-Total Recoverable	Arsenic	10.8		µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Barium	775	09	µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Cadmium	23.9	06	µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Chromium	26.9		µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Lead	2610	09	µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Selenium	2.08	05	µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Silver	0.51	06, 05	µg/L	12,636	SW 846 6020
eld Dissolved Oxygen	Field Dissolved Oxygen	4.42		mg/L		SM 4500-O-G
eld pH	Field pH	8.26		pH Units		EPA 150.1
eld Specific Conductivity	Field Specific Conductivity	794 uS/cm				SM 2510
eld Temperature	Field Temperature	19.5 C				EPA 170.1
l And Grease	Oil And Grease	<2	ND	mg/L	12,653	1664

ample: AB59475

Customer #: 1106419

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN **Affiliation:** ESP **Collect Date:** 9/14/2011 12:10:00PM
Entry Point:
Sample Comment: Grab sample #1106419, collected from sediment pile that is removed from Wash Station. Has not been previously classified by facility - is a new system and new waste.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
010B Metals-Total Recoverable	Arsenic	11000	06	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Barium	504000		µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Cadmium	18600		µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Chromium	63900		µg/kg	12,631	SW 846 6010B

Sample: AB59475

Customer #: 1106419

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:10:00PM
Entry Point:
Sample Comment: Grab sample #1106419, collected from sediment pile that is removed from Wash Station. Has not been previously classified by facility - is a new system and new waste.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6010B Metals-Total Recoverable	Lead	2220000		µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
6010B Metals-Total Recoverable	Silver	7110	09	µg/kg	12,631	SW 846 6010B
6010B TCLP	Cadmium	0.19		ppm	13,267	SW 846 6010B
6010B TCLP	Lead	6.04		ppm	13,267	SW 846 6010B
Percent Moisture	Percent Moisture	20.2		%	12,557	Infrared Drying

Sample: AB59476

Customer #: 1106420

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:23:00PM
Entry Point:
Sample Comment: Grab sample #1106420 collected from Storm Water outfall on southeast end of property near 9th and railroad crossing.

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
6020 Metals-Total Recoverable	Arsenic	8.65		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Barium	323	09	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Cadmium	30.9		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Chromium	22.2		µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Lead	2110	09	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Selenium	2.14	05	µg/L	12,636	SW 846 6020
6020 Metals-Total Recoverable	Silver	0.56	05	µg/L	12,636	SW 846 6020
Field Dissolved Oxygen	Field Dissolved Oxygen	5.10		mg/L		SM 4500-O-G
Field pH	Field pH	7.99		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	1023 uS/cm				SM 2510
Field Temperature	Field Temperature	19.4 C				EPA 170.1
Oil And Grease	Oil And Grease	<2	ND	mg/L	12,653	1664

ample: AB59477

Customer #: 1106421

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:34:00PM
Entry Point:
Sample Comment: Grab sample #1106421 collected from roadway north of truck wash entrance just north of non-ferrous building.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
10B Metals-Total Recoverable	Arsenic	8640		µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Barium	420000		µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Cadmium	19200		µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Chromium	67300		µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Lead	2180000		µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Silver	872		µg/kg	12,631	SW 846 6010B
10B TCLP	Cadmium	0.32		ppm	13,267	SW 846 6010B
10B TCLP	Lead	7.34	06	ppm	13,267	SW 846 6010B
ercent Moisture	Percent Moisture	14.9		%	12,557	Infrared Drying

ample: AB59478

Customer #: 1106422

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:50:00PM
Entry Point:
Sample Comment: Grab sample #1106422 collected from first staging pile from entrance northwest side of pile near base.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
010B Metals-Total Recoverable	Arsenic	18700		µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Barium	697000	09	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Cadmium	44800		µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Chromium	204000	09	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Lead	5860000	09	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Silver	6830	09	µg/kg	12,631	SW 846 6010B
010B TCLP	Cadmium	0.66		ppm	13,267	SW 846 6010B
010B TCLP	Chromium	<0.1	ND	ppm	13,267	SW 846 6010B
010B TCLP	Lead	7.92		ppm	13,267	SW 846 6010B
ercent Moisture	Percent Moisture	14.7		%	12,557	Infrared Drying

ample: AB59479

Customer #: 1106423

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 12:47:00PM
Entry Point:
Sample Comment: Grab sample #1106423 collected from midway through main roadway between two main staging piles.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
010B Metals-Total Recoverable	Arsenic	8480		µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Barium	437000	09	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Cadmium	18500		µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Chromium	49100	09	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Lead	2210000	09	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Silver	5780		µg/kg	12,631	SW 846 6010B
010B TCLP	Cadmium	0.25		ppm	13,267	SW 846 6010B
010B TCLP	Lead	8.20		ppm	13,267	SW 846 6010B
ercent Moisture	Percent Moisture	26.7		%	12,557	Infrared Drying

ample: AB59480

Customer #: 1106424

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:03:00PM
Entry Point:
Sample Comment: Grab sample #1106424 collected from north end of main roadway near Vine Street entrance.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
010B Metals-Total Recoverable	Arsenic	8360		µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Barium	367000	09	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Cadmium	16000		µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Chromium	72400	09	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Lead	1590000	09	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
010B Metals-Total Recoverable	Silver	1730		µg/kg	12,631	SW 846 6010B
010B TCLP	Cadmium	0.16		ppm	13,267	SW 846 6010B
010B TCLP	Lead	3.37		ppm	13,267	SW 846 6010B
ercent Moisture	Percent Moisture	19.3		%	12,557	Infrared Drying

ample: AB59481

Customer #: 1106425

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:09:00PM
Entry Point:
Sample Comment: Grab sample #1106425 collected from bottom of fluff pile.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
10B Metals-Total Recoverable	Arsenic	30300	09	µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Barium	2180000	09	µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Cadmium	74500		µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Chromium	427000	09	µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Lead	4420000	09	µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Selenium	<1000	ND	µg/kg	12,631	SW 846 6010B
10B Metals-Total Recoverable	Silver	2520	09	µg/kg	12,631	SW 846 6010B
10B TCLP	Barium	0.86		ppm	13,273	SW 846 6010B
10B TCLP	Cadmium	0.32		ppm	13,273	SW 846 6010B
10B TCLP	Chromium	<0.1	ND	ppm	13,273	SW 846 6010B
10B TCLP	Lead	0.68	06	ppm	13,273	SW 846 6010B
rcent Moisture	Percent Moisture	19.8		%	12,557	Infrared Drying

ample: AB59482

Customer #: 1106426

Facility ID:
County: Jefferson
Site: Shapiro Brothers
Sample Reference ID:
Collector: SEAN COUNIHAN
Affiliation: ESP
Collect Date: 9/14/2011 1:17:00PM
Entry Point:
Sample Comment: Grab sample #1106426 collected from Vine Street storm water outfall north end of property.

est	Parameter	Result	Qualifier	Units	QC Batch ID	Method
20 Metals-Total Recoverable	Arsenic	0.96	05	µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Barium	46.3		µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Cadmium	0.54		µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Chromium	1.94		µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Lead	28.0		µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Selenium	<0.50	ND	µg/L	12,636	SW 846 6020
20 Metals-Total Recoverable	Silver	<0.50	ND	µg/L	12,636	SW 846 6020
eld Dissolved Oxygen	Field Dissolved Oxygen	4.97		mg/L		SM 4500-O-G
eld pH	Field pH	7.78		pH Units		EPA 150.1
eld Specific Conductivity	Field Specific Conductivity	200 uS/cm				SM 2510
eld Temperature	Field Temperature	19.6 C				EPA 170.1
il And Grease	Oil And Grease	<2	ND	mg/L	12,653	1664

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S Environmental Protection Agency.

Chris Boldt

Chris Boldt, Laboratory Manager
Environmental Services Program
Division of Environmental Quality

Qualifier Descriptions

01 Improper collection method
02 Improper preservation
03 Exceeded holding time
04 Analyzed by Contract Laboratory
05 Estimated value, detected below PQL
06 Estimated value, QC data outside limits
07 Estimated value, analyte outside calibration range
08 Analyte present in blank at > 1/2 reported value
09 Sample was diluted during analysis
10 Laboratory error
11 Estimated value, matrix interference
12 Insufficient quantity
13 Estimated value, true result is >= reported value
14 Estimated value, non-homogeneous sample
15 No Result - Failed Quality Controls Requirements
16 Not analyzed - related analyte not detected
17 Results in dry weight
18 Sample pH is outside the acceptable range
19 Estimated value
20 Not analyzed - Instrument failure
21 No result - spectral interference
22 pH was performed at the Laboratory
23 Contract Lab specific qualifier - see sample comments
24 No result - matrix interference
25 No Result: Excessive Chlorination
26 No Result: Excessive Dechlorination
ND Not detected at reported value

Appendix B

Shapiro Brothers, Inc. Scrap Yard Site
Chain of Custody Records

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Description of Delivery
Tape sealed and initialed — Total No. Of Containers:
Shipped — Carrier:
X Hand Delivered — By:

Collector's Name: (Please Print) Sean Counihan

Affiliation: (circle one) KCRO NERO SERO SLRO SWRO WPP DGLS HWP (ESP) MoDOT MDC DHSS Other:

LAB USE ONLY!
Laboratory ID: 110915002
Location: B37

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type (circle one)	Field Parameters (include units)	Matrix (circle one)	Container Type	Preservative Type	Number of Containers
1106418 (Sample A) / For Lab Use Only AB59474	Date: 9/14/11 Time: 1205	Metals (As, Ba, Cd, Cr, Pb, Se, Ag) O.I + Grease TCLP if applicable Ef	(circle one) ~~None~~ Cl_2 UV Ozone Other:	D.O. Flow pH 8.26 Cond. 794 us Temp. 19.5°C Other: DO 4.42	(circle one) Water Soil Organic Sludge Other:	1L AG 250 CN	H_2SO_4 HNO_3	2 1
1106419 (Sample B) / For Lab Use Only AB59475	Date: 9/14/11 Time: 1210	Metals (As, Ba, Cd, Cr, Pb, Se, Ag) TCLP if applicable Ef	~~None~~ Cl_2 UV Ozone Other:	D.O. Flow pH Cond. Temp. Other:	Water (Soil) Organic Sludge Other:	8oz CG	4C	1
1106420 (Sample C) / For Lab Use Only AB59476	Date: 9/14/11 Time: 1223	Metals (As, Ba, Cd, Cr, Pb, Se, Ag) O.I + Grease TCLP if applicable Ef	~~None~~ Cl_2 UV Ozone Other:	D.O. Flow pH 7.99 Cond. 1023 Temp. 19.4°C Other: DO 5.10	(circle one) Water Soil Organic Sludge Other:	1L AG 250 CN	H_2SO_4 HNO_3	2 1
1106421 (Sample D) / For Lab Use Only AB59477	Date: 9/14/11 Time: 1234	Metals (As, Ba, Cd, Cr, Pb, Se, Ag) TCLP if applicable Ef	~~None~~ Cl_2 UV Ozone Other:	D.O. Flow pH Cond. Temp. Other:	Water (Soil) Organic Sludge Other:	8oz CG	4C	1

Relinquished By:	Received By:	Date:	Time:
Sean Cole	[illegible]	9/15/11	0841
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

MISSOURI DEPARTMENT OF NATURAL RESOURCES

FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A	LDPR: FERCA	Job Code: NJ12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	
Sample Comment (where and how the sample was collected): Grab Composite Modified Other: Sample # 1106418 collected from wash station			
GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one) EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample B	LDPR: FERCA	Job Code: NJ12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	
Sample Comment (where and how the sample was collected): Grab Composite Modified Other: Sample # 1106419 Collected from sediment pile that is removed from wash station has not been previously classified by facility - is a new system + new waste.			
GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one) EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample C	LDPR: FERCA	Job Code: NJ12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	
Sample Comment (where and how the sample was collected): Grab Composite Modified Other: Sample # 1106420 Collected from storm water outfall on south east end of property near 9th + railroad crossing			
GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one) EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample D	LDPR: FERCA	Job Code: NJ12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	
Sample Comment (where and how the sample was collected): Grab Composite Modified Other: Sample # 1106421 collected from roadway north of truck wash entrance just north of non-ferrous building			
GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one) EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, Inspection, Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, Soil, Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Remarks:

5.6°C

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Description of Delivery
___ Tape sealed and initialed
___ Shipped
X Hand Delivered
Total No. Of Containers: 4
Carrier:
By:

Collector's Name: (Please Print) Sean Counihan

Affiliation: (circle one) KCRO NERO SERO SLRO SWRO WPP DGLS HWP (ESP) MoDOT MDC DHSS Other:

LAB USE ONLY!
Laboratory ID: 1109150002
Location: B37

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type (circle one)	Field Parameters (include units)	Matrix (circle one)	Container Type	Preservative Type	Number of Containers
1106422 (Sample A) / For Lab Use Only AB59478	Date: 9/14/11 Time: 1250	Metals (As, Ba, Cd, Cr, Pb, Se, Ag) TCLP if applicable Et	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, (Soil), Organic, Sludge, Other:	8oz CG	4C	1
1106423 (Sample B) / For Lab Use Only AB59479	Date: 9/14/11 Time: 1247	Metals (As, Ba, Cd, Cr, Pb, Se, Ag) TCLP if applicable Et	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, (Soil), Organic, Sludge, Other:	8oz CG	4C	1
1106424 (Sample C) / For Lab Use Only AB59480	Date: 9/14/11 Time: 1303	Metals (As, Ba, Cd, Cr, Pb, Se, Ag) TCLP if applicable Et	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, (Soil), Organic, Sludge, Other:	8oz CG	4C	1
1106425 (Sample D) / For Lab Use Only AB59481	Date: 9/14/11 Time: 1309	Metals (As, Ba, Cd, Cr, Pb, Se, Ag) TCLP if applicable Et	None, Cl_2, UV, Ozone, Other:	D.O., Flow, pH, Cond., Temp., Other:	Water, (Soil), Organic, Sludge, Other:	8oz CG	4C	1

Relinquished By:	Received By:	Date:	Time:
Sean Cou	[illegible]	9/15/11	0841
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

MISSOURI DEPARTMENT OF NATURAL RESOURCES

FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A	LDPR: FERCA	Job Code: NJ 12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): (Grab) Composite Modified Other:

Sample # 1106422 Collected from first staging pile from entrance north west side of pile near base.

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, (Inspection), Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, (Soil), Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample B	LDPR: FERCA	Job Code: NJ 12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): (Grab) Composite Modified Other:

Sample # 1106423 collected from midway through main roadway between two main staging piles

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, (Inspection), Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, (Soil), Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample C	LDPR: FERCA	Job Code: NJ 12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): (Grab) Composite Modified Other:

Sample # 1106424 collected from north end of main roadway near Vine Street entrance.

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, (Inspection), Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, (Soil), Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Sample D	LDPR: FERCA	Job Code: NJ 12 SHAP	Sample Reference ID:
Facility ID:	Site/Study Name: Shapiro Brothers	County: Jefferson	

Sample Comment (where and how the sample was collected): (Grab) Composite Modified Other:

Sample # 1106425 collected from bottom of fluff pile

GPS Coordinates (UTM Zone 15 NAD83 Only)	X Easting	Y Northing	Accuracy (circle one)	EPE (meters) PDOP

Sample Event Type: (circle one): Bypass/SSO, Complaint, Emergency Response, (Inspection), Investigation, Monitoring, Special Project

Sample Type: (circle one): Air, (Soil), Container, Spill, Discharge, Storm Water, Groundwater, Surface Water, Organic, Wipes, Sediment, Sludge, Drinking Water Supply

Remarks:

5.6°C

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

4

Description of Delivery
Tape sealed and initialed
Shipped
X Hand Delivered
Total No. Of Containers: 3
Carrier:
By:

Collector's Name: (Please Print) Sean Cannihan

Affiliation: (circle one) KCRO NERO SERO SLRO SWRO WPP DGLS HWP (ESP) MoDOT MDC DHSS Other:

LAB USE ONLY!
Laboratory ID: 110915002
Location: B37

Sample Number	Sample Collected	Analyses Requested	Disinfect. Type (circle one)	Field Parameters (include units)		Matrix (circle one)	Container Type	Preservative Type	Number of Containers
110 0426 (Sample A)	Date: 9/14/11	Metals (As, Ba, Cd, Cr, Pb, Se, Ag)	None	D.O.		(Water)	1L AG	H_2SO_4	2
			Cl_2	Flow		Soil	250 CN	HNO_3	1
For Lab Use Only	Time:	Oil + Grease	UV	pH	7.78	Organic			
AG59482	1317	TCLP if applicable SJ	Ozone	Cond.	200 uS	Sludge			
			Other:	Temp.	19.6°C	Other:			
				Other: DO	4.97				
(Sample B)	Date:		None	D.O.		Water			
			Cl_2	Flow		Soil			
For Lab Use Only	Time:		UV	pH		Organic			
			Ozone	Cond.		Sludge			
			Other:	Temp.		Other:			
				Other:					
(Sample C)	Date:		None	D.O.		Water			
			Cl_2	Flow		Soil			
For Lab Use Only	Time:		UV	pH		Organic			
			Ozone	Cond.		Sludge			
			Other:	Temp.		Other:			
				Other:					
(Sample D)	Date:		None	D.O.		Water			
			Cl_2	Flow		Soil			
For Lab Use Only	Time:		UV	pH		Organic			
			Ozone	Cond.		Sludge			
			Other:	Temp.		Other:			
				Other:					

Relinquished By:	Received By:	Date:	Time:
[signature]	[signature]	9/15/11	0841
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

MISSOURI DEPARTMENT OF NATURAL RESOURCES

FIELD SHEET AND CHAIN-OF-CUSTODY RECORD

Sample A

LDPR: FERCA	**Job Code:** NJ 12 SHAP	**Sample Reference ID:**	
Facility ID:	**Site/Study Name:** Shapiro Brothers	**County:** Jefferson	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:

Sample # 1106426 collected from Vine Street storm water out fall northend of property

GPS Coordinates (UTM Zone 15 NAD83 Only)	**X Easting**	**Y Northing**	**Accuracy**	*(circle one)* **EPE (meters)** **PDOP**

Sample Event Type: (circle one)	**Sample Type:** (circle one)	
Bypass/SSO	Air	Soil
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
Investigation	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample B

LDPR:	**Job Code:**	**Sample Reference ID:**	
Facility ID:	**Site/Study Name:**	**County:**	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:

GPS Coordinates (UTM Zone 15 NAD83 Only)	**X Easting**	**Y Northing**	**Accuracy**	*(circle one)* **EPE (meters)** **PDOP**

Sample Event Type: (circle one)	**Sample Type:** (circle one)	
Bypass/SSO	Air	Soil
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
Investigation	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample C

LDPR:	**Job Code:**	**Sample Reference ID:**	
Facility ID:	**Site/Study Name:**	**County:**	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:

GPS Coordinates (UTM Zone 15 NAD83 Only)	**X Easting**	**Y Northing**	**Accuracy**	*(circle one)* **EPE (meters)** **PDOP**

Sample Event Type: (circle one)	**Sample Type:** (circle one)	
Bypass/SSO	Air	Soil
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
Investigation	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

Sample D

LDPR:	**Job Code:**	**Sample Reference ID:**	
Facility ID:	**Site/Study Name:**	**County:**	

Sample Comment (where and how the sample was collected): Grab Composite Modified Other:

GPS Coordinates (UTM Zone 15 NAD83 Only)	**X Easting**	**Y Northing**	**Accuracy**	*(circle one)* **EPE (meters)** **PDOP**

Sample Event Type: (circle one)	**Sample Type:** (circle one)	
Bypass/SSO	Air	Soil
Complaint	Container	Spill
Emergency Response	Discharge	Storm Water
Inspection	Groundwater	Surface Water
Investigation	Organic	Wipes
Monitoring	Sediment	
Special Project	Sludge	
	Drinking Water Supply	

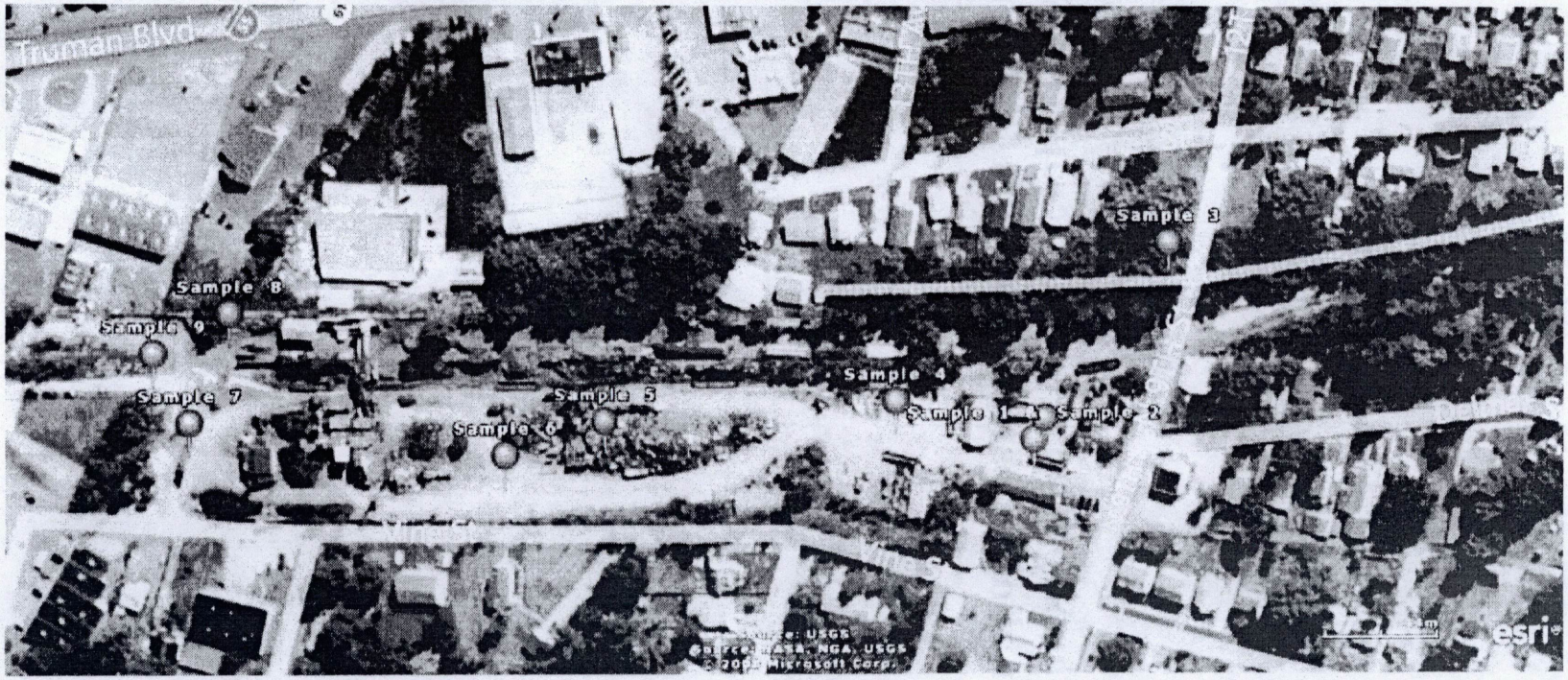
Remarks:

5.6°C

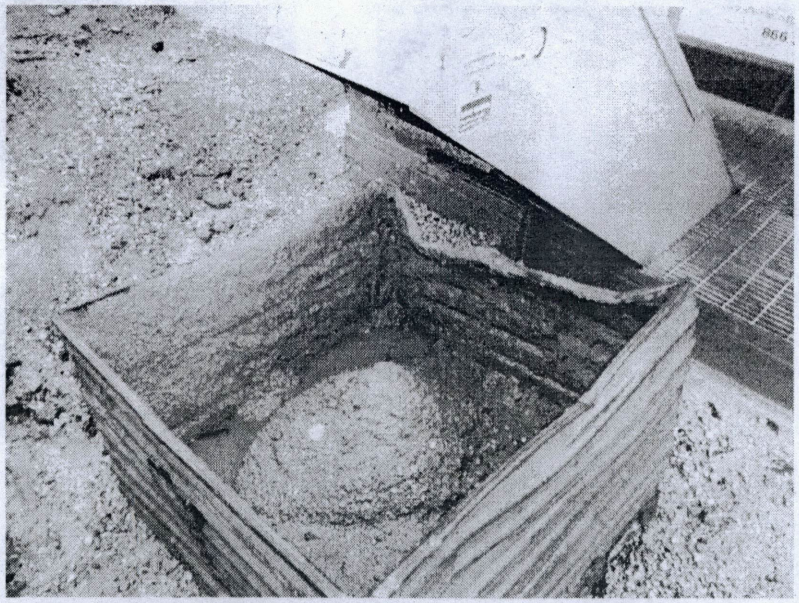
Appendix C

Shapiro Brothers, Inc. Scrap Yard Site
Sampling Locations Map and Photographs

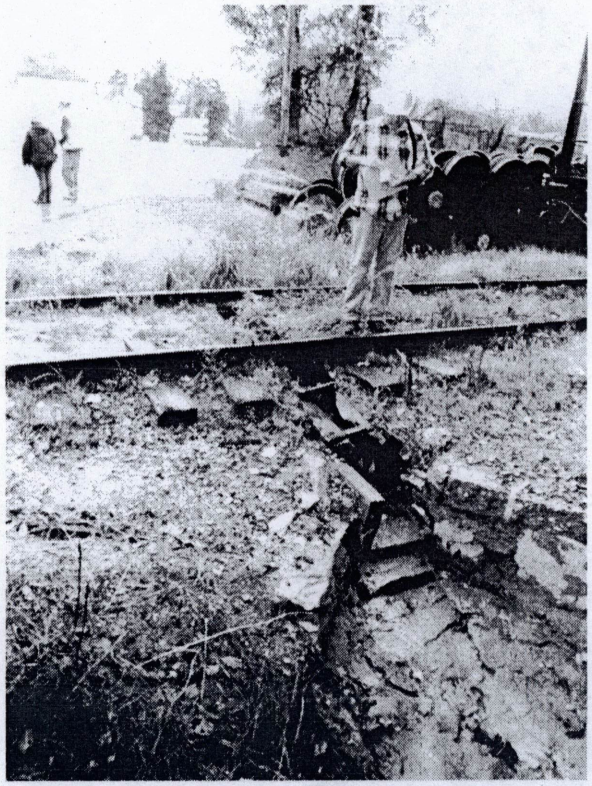
Shapiro Brothers Scrap Yard Sampling Locations Map



Sample 1, Surface water from Truck Wash Station.

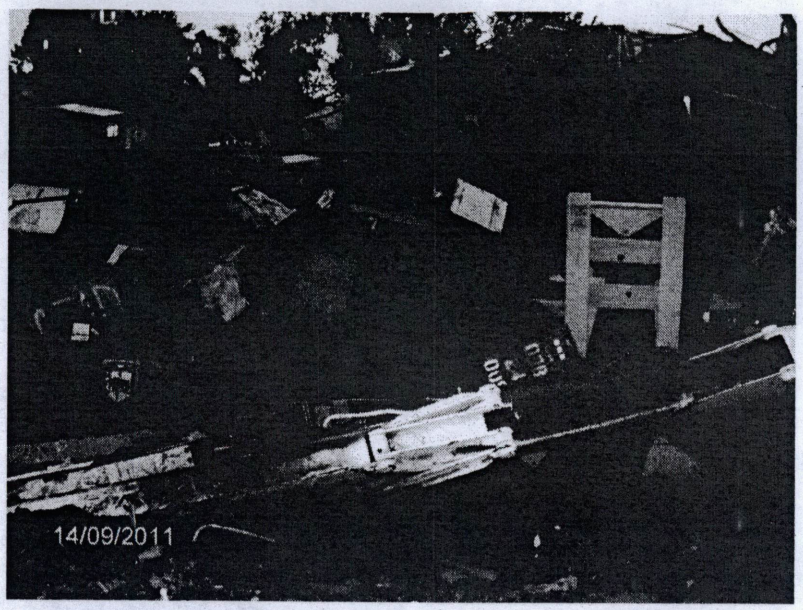


Sample 2, Soil\Sediment scraped from bottom of wash tank.



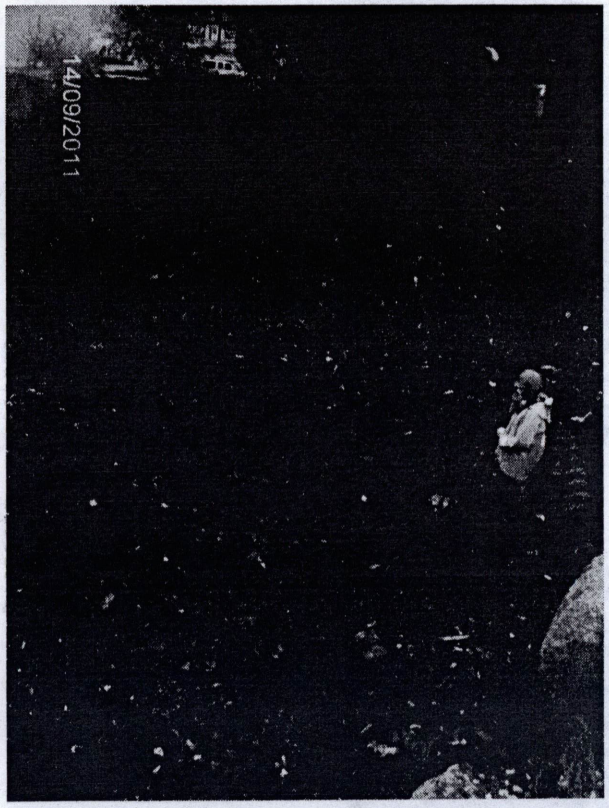
Sample 3, Strom water run off, S.E. corner of property.

Sample 4, Soil collected from roadway just after entering property.



Sample 5, Soil collected from bottom of first staging pile.

Sample 6, Soil collected from roadway midway through property – between staging piles. (Staging pile 2 in background)



Sample 7, Auto Fluff pile

Sample 8, Soil collected from north entrance.

Sample 9, Storm Water run off from Vine Street (on north end of property). The drain was installed by Shapiro Brothers to route underground to stream.

Appendix D

Shapiro Brothers, Inc. Scrap Yard Site
Field Notes

Shapiro Brothers Scrap Yard
Wed. Sep. 4 2011 FORCA NJR SHAP
Arrive on site @ 0900 9th + Delmar
SMR Personnel P.O. Box 757
Sean Cummen
Evan Bryant
Jim Bessel
Vickie Alberlie
Darren Bernat
Also on site
Site Owner NPN Greg Shapiro / Dave Shapiro
Shapiro Environmental NPN Dave ~~[illegible]~~ Rowe
Had to wait on about two to
get started. NPN Jorian Gregory
consultant

Met w/ Greg Shapiro 0945
Greg said Shapiro Brothers has been
sold + will be closing this Friday Sep 16
Site is approx old 15 acres 8 acres usable

1157 Sample 1
From wash station by front entrance
at 9th + Delmar
Collecting water from washbasin
GPS N. 38 23001
-90. 39035

Water quality meters bump tested on 9/13/

~~Ph~~ pH at 7 = 7.06
at 4 = 4.03
Cond at 1413 µs 1460 µs

Sample collected @ 1205
Temp = 19.5°C
pH = 8.26
DO = 4.42
Cond = 794
Sample # 110641B

Sample 2 collected from
Sediment collected from wash station
Conveyor scraper collects & deposits into
Container outside of station
Sample # 110641B @ 1210
5 aliquots from container

Sample 3 from stormwater outfall
near creek after 4th street &
railroad crossing

Temp = 19.4°C
Cond = 1023
pH = 7.91
DO = 5.10

Sample collected @ 1223
Sample # 110642C

Sample 4 Soil
collected from Center of building
after truck waste station
~~east~~ ~~west~~ north of Non-ferrous building
Sample collected @ 1234
5 aliquots from ~~east~~ ~~west~~ south to north
Sample # 110642I

Sample 5 Soil collected from
1st staging pile from main entrance
at base of pile ~~south~~ northwest side. by EMC 5 aliquots
Sample collected at 1250
Sample # 110642Z

Sample 6 soil collected from
middle of roadway between piles
Sample collected at 1247
Sample # 110642B

Sample 7 Collected Soil
from ~~East~~ entrance off Vine St.
sample collected at 1305
sample # 110624

Sample 8 Collected from
Fluff pile (left over from Car shredding)
Collected @ 1309
Sample # 110625

Sample 9
Storm water outfall from Vine
St. This outfall should not be impacted
by Shapiro facility. water is underground
except for corner of facility near
Fluff pile entrance where Shapiro
re-routed runoff back underground
so as not to affect fluff pile.

Temp 19.6°C
Cond 2600 S
pH 7.78
DO - 4.97
Sample collected at 1317
Sample # 110624

Notification And Waste Stream Information

Epa ID MOR000021907 **Missouri ID** 036446 **State Status** Administrative Number

Date EPA Id Issued 06/03/2003

Notification Update Received: 06/03/2003

Record Add/Changed: 04/15/2010

Company Name SHAPIRO BROTHERS INC

Facility Address 9TH & DELMAR
FESTUS, MO 63028 **County** JEFFERSON

EASTING: 728211.875 **NORTHING:** 4225504.255

Latitude Decimal Format **Longitude Decimal Format**

Method Of Collection Z1 **Collection Site**

Mailing Address 9TH & DELMAR
FESTUS, MO 63028

Contact Person/Position GREGORY E SHAPIRO **Phone Number** (636) 937-9185

Facility Owner

Facility's Owner Address

,

Owner's Phone Number **Owner Type**

Property Owner's Name

Propety Owner's Address

,

Property Owner's Phone Number **Property Owner Type**

☐ **TSD Facility** **TSD Identification Number:**
RCRA Identification Number:

☑ **Generator/Facility Information is Confidential**

☐ **Large Quantity Handler Of Universal Waste**

Registered EPA Hazadous Waste Numbers

Integrated Site Inspection/Removal Site Evaluation
Sampling and Analysis Plan

Shapiro Brothers Salvage Yard
Festus, MO
Jefferson County

Prepared By:

Missouri Department of Natural Resources
Division of Environmental Quality
Hazardous Waste and Environmental Services Programs

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1.0 Introduction

As authorized under the federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986, the Missouri Department of Natural Resources (Department), Hazardous Waste Program (HWP), Site Assessment Unit (SAU) is conducting an Integrated Site Inspection/Removal Site Evaluation (SI/RSE) at the Shapiro Brothers Salvage Yard in Festus, MO.

The objective of this investigation is to determine whether the site warrants a removal action and to gather data necessary for the preparation of a preliminary site score under the Hazard Ranking System (HRS). The scope of the investigation will include collecting and analyzing surface soil, shallow subsurface soil, surface water, sediment, and potentially shallow groundwater, surface wipe, and street sweepings samples.

2.0 Site Information

2.1 Location

The site is located at the intersection of 12th Street and Vine in east-central Festus, MO. It is a rectangular 7-acre area, oriented primarily north-south, along the boundary that separates Festus and Crystal City, MO (red boundary in Figure 1).

Figure 1. Shapiro Brothers Facility, Festus, MO.

2.2 Description

Shapiro Brothers, Inc. has been used as metal scrap processing and recycling facility since the 1940s. They also offer demolition services, dismantle out of service rail cars, and offer transportation services to their clients for scrap metal materials. Materials brought to the facility are processed by cutting with a torch, or with a 450 horsepower shear or 3500 horsepower shredder. The metal is processed and compressed into sizes that are accepted by a steel mill for recycling. All non-metal items are separated out - this is called auto fluff- and taken to a sanitary landfill.

Most of the facility operations are conducted in unpaved gravel-covered areas, areas with exposed bare soil or soil mixed with gravel. During periods of wet soil conditions, trucks leaving the facility would likely have historically tracked mud through the streets on their way out of the facility. There are two gates into the facility; a north gate and a south gate. Most of the traffic into and out of the facility occurs through the south gate, although fluff pile material is loaded onto trucks near the northern end of the facility which may also exit through the northern gate. A truck wash system was installed in the fall of 2011 to clean the undercarriage and wheels of trucks leaving the southern gate. The facility recently started operating a street sweeper in the roads around the facility to remove residual material tracked into the streets by trucks.

Prior to the spring of 2011, trucks primarily approached the facility by traveling along 12th Street to and from Truman Blvd. (U.S. Highway 61). A heavy spring flood event in 2011 washed out the culvert beneath 12th Street near the facility making the road impassable. Since then, trucks have traveled south from the facility on the residential street Delmar Ave. before connecting with Truman Blvd. via 6th Street.

Runoff from the facility enters a drainage that flows south to Plattin Creek. The drainage carries stormwater runoff and is carried by underground conduit resurfacing in various areas along its

route to Plattin Creek. Figure 2 shows the route of the drainage between where it begins just north of the facility to where it discharged into Plattin Creek near the waste water treatment plant 2 miles downstream. Plattin Creek then flows for about 1.8 miles to its mouth at the Mississippi. River.

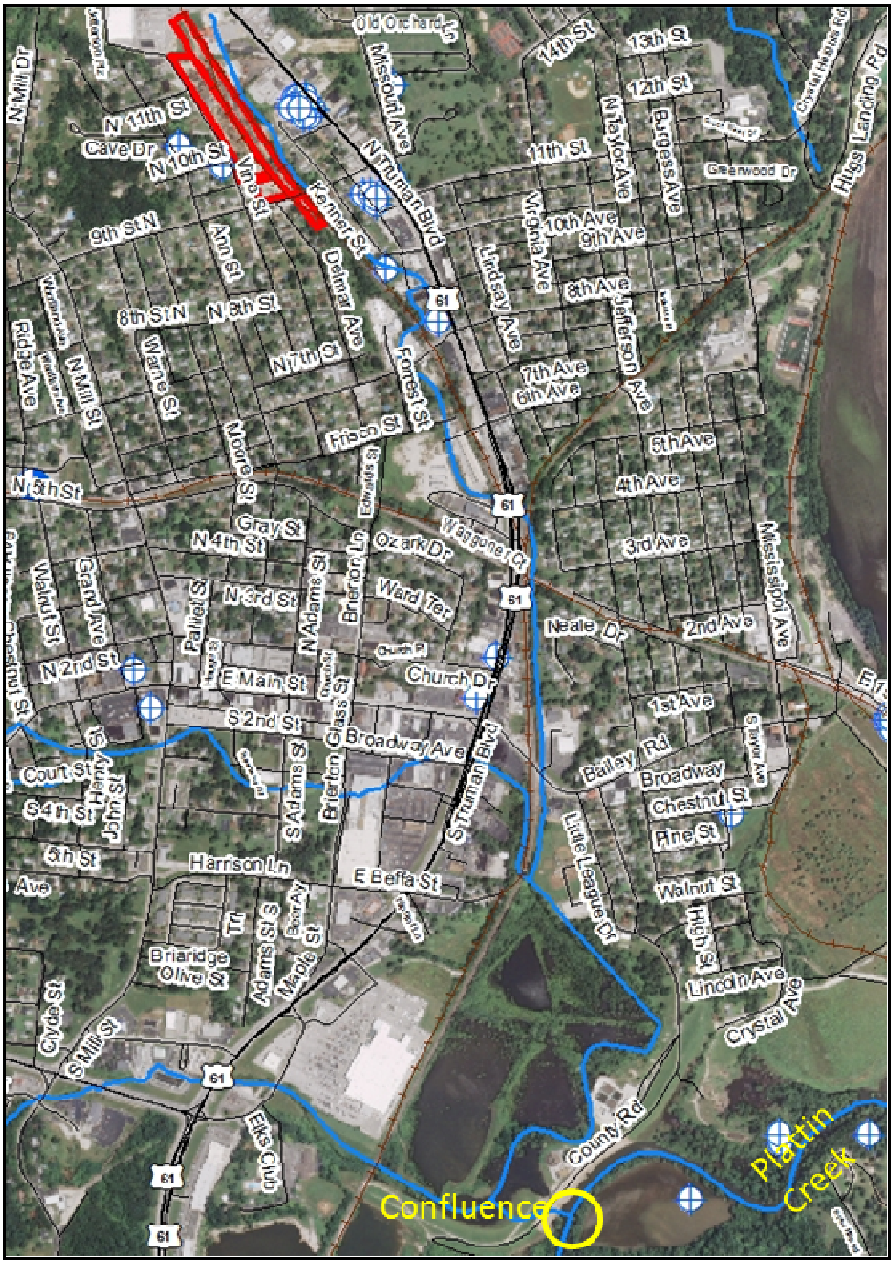

Figure 2. Surface Water/Storm Water Drainage

2.3 History/Contaminants of Concern

The site came to the departments' attention following complaints made to the City of Festus by nearby residents regarding the dust created at the facility and by trucks hauling material in and out of the facility. The department conducted a facility inspection in September 2011 and identified violations of hazardous waste management and water pollution laws (MDNR, 2011a, MDNR, 2011b, MDNR, 2011c). The facility is working with the department to address these violations. During the September 2011 inspection, surface soil samples were collected from various areas in the facility, and a sample of the truck wash solids was collected from the newly installed system at the south gate. Soil samples were analyzed for the eight RCRA metals. Elevated levels of lead, cadmium and other metals were found in every soil sample collected as well as in the truck wash solids. The city of Festus and a contractor working for Shapiro Brothers both collected separate samples of street sweeper debris from roadways surrounding the site (9th, Delmar, and Vine) in 2011 (Festus, 2011and NPN, 2011). Results for both samples show elevated levels of cadmium, lead and other metals in similar proportions to those found in facility soils and truck wash solids. The sample collected by the facility contractor contained over twice as much lead as the sample collected by the City. However, lead in the City's sample was found to be more leachable and would classify the street sweepings as hazardous waste under state and federal law.

Samples of surface water from upgradient and dowgradient of the facility were also collected during the September inspection. Results documented discharge of lead and cadmium in surface water runoff from the facility at levels in violation of state and federal law. No sediment sampling was conducted in the stream running north to south along the facility's eastern boundary. However, metal debris obviously originating from metal processing operations at the site was observed in the creek bed all along this stretch of the creek.

Department staff returned to the facility in January 2012 to resample the truck wash solids and street sweepings for waste characterization confirmation. Based on 3 samples, the truck wash solids waste, while containing lead levels up to 3,980 mg/kg, was characterized as non-hazardous under RCRA. A sample of the street sweepings containing 2,400 mg/kg lead was also characterized as non-hazardous waste.

Staff also collected soil samples at the facility to be analyzed for a broader range of potential contaminants. Results from those samples show that in addition to lead, the metals arsenic, cadmium, chromium, copper, nickel and zinc are present at elevated levels (MDNR, 2012). Other non-metal contaminants detected include PCBs, PAHs, phthalates, toxaphene, dioxins/furans and 4-chloro-3-methyl phenol. However, the concentrations of these other contaminants relative to commonly used soil screening levels are not nearly as significantly elevated as for lead. Although not analyzed for in the facility soil, polybrominated biphenyl ethers (PBDEs) may be of potential concern. PBDEs are flame retardant chemicals added to plastics, upholstery coatings and urethane foams such as would be expected to be present in the auto fluff material. There is growing evidence that PBDEs persist in the environment, accumulate in living organisms and may be associated with liver, thyroid and developmental toxicity (http://www.epa.gov/oppt/pbde/).

3.0 Data Quality Objectives

To help ensure precise, accurate, representative, complete, and comparable data, all field work and analyses will be conducted in accordance with the Quality Assurance Project Plan (QAPP) for Pre-Remedial/Pre-Removal and Targeted Brownfields Site Assessments Revision 6, December 7, 2007, and ongoing (MDNR, 2007). The QAPP describes the general data quality

objectives (DQO) for site assessment investigations conducted by the HWP and ESP. Those DQOs specific to this project are described below.

3.1 Problem Statement

Decades of metal shredding, cutting, processing, and hauling have resulted in releases of various heavy metals and other contaminants to surface soil at the facility. Some of these metals have also been documented in surface water discharging from the facility. The facility is located within a densely populated urban residential area, and nearby residents are concerned about migration of contaminants from the site to residential areas through tracking of contaminated soil on truck tires and via wind deposition.

3.2 Planning Team

The planning team includes staff from the HWP Superfund Section, EPA Region 7, ESP Field Services and Chemical Analysis Sections, USGS Columbia Environmental Research Center, Missouri Department of Health and Senior Services (DHSS) and Jefferson County Health Department risk assessors.

3.3 Conceptual Site Model

Elevated levels of arsenic, cadmium, copper, lead, nickel, and zinc have been measured in surface and shallow subsurface soil at the facility. Those same metals have also been measured in solids collected from the truck washing station near the facility entrance and in street sweepings samples collected from residential roads adjacent to the facility. Based on a comparison of the concentrations measured relative to common screening benchmarks, it is clear that the primary contaminant of concern for the site will be lead. Levels of lead exceeding 37,000 mg/kg have been measured in surface soil at the facility, and concentrations up to 4,800 mg/kg of lead has been measured in street sweepings collected from residential streets nearby. These levels far exceed most screening benchmarks for lead in residential yards which are in the range of 260-400 mg/kg.

Site-related contaminants can be released in a number of ways. Fine particulates from contaminated soils disturbed at the facility or from the material processing activities themselves could be transported via wind. Contaminated soils clinging to trucks leaving the facility could be released to roadways in residential areas where it could be transported as dust, or with runoff following rain events. Fine particulates released from the facility could be deposited on yard soil, on various exterior surfaces, or be transported into residences through open windows or via tracking in on shoes or other means. Residents could be exposed to contaminated particulates through direct contact with soil, dust on surfaces, or inhalation of particulates in ambient air.

Contaminants deposited on residential yard soils through air deposition would be expected to show a spatial pattern with higher concentrations nearer to the facility/haul road. Lead poses some unique challenges since it may also be present near residential structures due to past use of lead paint, and near roadways due to fallout from vehicle exhaust during the period when leaded fuel was used. The nation's only primary lead smelter is located approximately 2 miles north of the Shapiro facility and may be an additional source of lead contamination due to air deposition from the smelter or from the past use of smelter slag as traction control on streets of Festus in the winter.

Contaminants could be released from the facility to downstream surface water and sediments in a drainage leading to Plattin Creek and to Plattin Creek itself. Human exposure could occur with direct contact to stream water and sediment or through ingestion of fish living in contaminated stream reaches.

Metal containers (drums, tanks, railcars, gas tanks) which previously held solvents or other liquid chemical products may have been processed at the facility in the past. Should such containers have held residual product, it may have been released to the surface during the processing of the

containers. Historical releases of residual solvents may migrate vertically through soil contaminating shallow groundwater. Although this groundwater is not used as a drinking water resource in the immediate area, solvent vapors from contaminated groundwater may migrate and result in vapor intrusion into buildings near the site. Although this is a potential pathway of concern, it is considered a lower priority and sampling for this pathway will not be included in this phase of the investigation.

Decision Units

Each residential yard is a separate exposure unit (EU). CERCLA removal and remedial action decisions for residential yards are typically conducted on an EU by EU basis. Therefore, yard decision units (DUs) for this investigation will be set the same as the exposure units (the entire yard). However, to aid in evaluating source attribution and to evaluate sub-areas within the yard DUs that may have special exposure concerns (e.g. children's play areas), sampling will be conducted in sampling units (SUs) smaller than the DU. The sampling design is further discussed in Section 3.9.

3.4 Study Questions

The primary study questions for this investigation are:

- What is the background concentration of contaminants of concern (COCs) in residential yards unaffected by facility operations?
- Do mean concentrations of COCs in the fine fraction of surface soil (0"-2") in residential yards DUs adjacent to the facility or along haul routes significantly exceed background levels and/or health-based screening levels?
- Are COCs in residential yard soils near the facility and along truck haul routes attributable to the facility operations?
- Do fine particulates on exterior residential surfaces contain COCs at concentrations above health-based screening levels?

- How far downstream from the facility do impacts (concentrations above water quality standards or sediment quality guidelines) extend?

3.5 Inputs to Study Questions

The following lists the primary inputs required to address the principal study questions.

- Screening Levels
  Obtained from a variety of sources including the Superfund Chemical Data Matrix, EPA Regional Screening Levels, Missouri Risk Based Corrective Action Guidance, Missouri Water Quality Standards, and USGS consensus based Sediment Quality Guidelines. Generally removal decisions for lead in residential yards are based on the EPA non time-critical removal action level (RAL) of 400 mg/kg and time-critical RAL of 1,200 mg/kg. No screening level is available for lead in dust on exterior surfaces. Instead, wipe sample results will be compared to benchmarks for interior floor surfaces from Section 403 of the Toxic Substances Control Act (TSCA) of 40 ug/ft^2. No readily avialable screening levels were identified for PBDEs in soil for a residential use setting.

- Estimates of mean lead concentrations
  - In the fine fraction (<0.25 mm) of soil from the top two inches in background DUs established in three city parks
  - In the fine fraction (<0.25 mm) of soil from the top two inches of SUs and DUs established in residential yards
  - In street sweepings collected from non-haul route roads
  - In fine particulates accumulated on various surfaces at residential properties

- Estimates of variability in lead concentrations in each SU and DU sampled

- Ratios of lead to zinc, arsenic, and cadmium in soil samples collected from the facility and from residential yards and street sweepings.

- Estimates of site-related contaminant concentrations in surface water at various distances downstream of the facility

- Estimates of site-related contaminant concentrations in sediment (<2mm particle fraction) at various distances downstream of the facility.

3.6 Study Boundary

The site consists of the facility itself plus residential properties, surface water and sediments affected by site activities. Since it is not known how far beyond the facility, if at all, site-related contamination extends, depending on the findings of this phase of the investigation, it may be necessary expand the investigation to include additional residences or stream segments. Access was requested from approximately 110 residential property owners who own property adjacent to the facility or the main haul roads. This figure also includes requests to owners in an area further away from the facility expected to be outside the influence of site contaminants (background area). Figure 3 shows the locations of each residential property for which access was requested as parcels with yellow borders. Access was granted by 70 property owners. However, approximately 20 of these were for properties in the background area, and only a small number of them are needed for the investigation. Therefore the number of properties we anticipate to actually sample is likely closer to 50-55.

Figure 3. Properties Identified for Potential Sampling

3.7 Decision Rules

Investigation data will be used to make decisions for both the Site Inspection (HRS scoring) and to assess the need for a Removal Action. Decision rules regarding HRS scoring are well described in the HRS Rule and HRS Guidance Document (USEPA, 1990 and USEPA, 1992). Decision rules for the Removal Action are described below. For both HRS and Removal Action purposes it is important to demonstrate that contamination is attributable to the source area (facility). This determination will be made based on a weight of evidence approach. The following observations will support attribution of contaminants to the facility.

<u>Attribution</u>

- Observation of significantly higher lead concentrations in street sweepings collected from near the facility and along haul roads (Delmar St.) as compared with those collected from residential streets further away.

- Observation of trend with higher lead concentrations in SU1 compared with those in SU2 at target residences.

- Observation of significantly lower trend or absence of trend in lead concentration between SU1 and SU2 at background residences.

- Similar ratios of lead to zinc, arsenic and/or cadmium in samples from residential yards, street sweepings collected near the facility and soil samples collected at the facility.

- Significant difference in lead concentration on wipe samples collected at targeted residences vs. background residences.

- Significant difference in lead concentrations of street sweepings collected from roads near the facility vs. from further away.

Removal Assessment

- If the estimate of the mean lead concentration in yard DU exceeds the EPA RAL of 400 mg/kg or 1,200 mg/kg and is attributable to the facility, a time critical or non-time critical removal action will be recommended; otherwise no further action will be taken for that residence.

- If the estimate of mean lead concentration in a special use SU (e.g. play area) exceeds the EPA RALs or lead on a surface wipe sample exceeds applicable criteria, the residence will be referred to EPA or DHSS risk assessors for a health consult to determine future course of action.

- If PBDEs are detected in yard soils at levels significantly higher than background levels, the results will be referred to EPA or DHSS risk assessors for a health consult to determine a future course of action.

3.8 Tolerable Limits on Decision Error

Our hypothesis is that yard soil at residences near the facility and along haul routes have site-related contamination at concentrations above health-based screening levels. Falsely rejecting that hypothesis, considered a Type I decision error, would mean mistakenly concluding that yards are clean. Falsely accepting this hypothesis, considered the Type II decision error, would mean concluding that the yards are contaminated when in fact they are not. The Type I error would result in the taking no action at yards actually contaminated at levels that could pose a

health threat to residents. A Type II error would result in the unnecessary use of resources to conduct removal and/or removal action at yards that do not warrant it. The Type I error is considered more severe since it results in potential threats to human health.

A sampling design has been chosen to control error and minimize the likelihood of making a Type I decision error. In-situ XRF analyses will be used to obtain a high density data set about concentration gradients for lead with distance from each residence. The use of field analytical techniques such as XRF allows much higher density data sets than is practical with conventional discrete soil sample/laboratory analysis. Large data sets will increase confidence about conclusions drawn from the data and decrease the likelihood of committing either type of error.

An incremental composite sampling (ICS) approach will be used to collect soil samples in each SU. ICS is designed to obtain single soil sample that contain contaminants in the same proportion in the sample as they are present in the SU (e.g. are representative samples). This is achieved through inclusion of many increments of adequate-mass soil across each SU. Representative sampling will decrease the likelihood of committing either type of error.

The ICS sampling procedure will be replicated and results of the replicates will be used to provide a conservative estimate (95% UCL) of the true mean lead concentration. By using a conservative estimate of mean concentration, we will protect against underestimating the true mean, and therefore potentially walking away from a residence that is actually contaminated.

3.9 Sampling Design

Based on the CSM, higher contaminant concentrations are expected closest to the suspected source of contamination (the facility or the haul road). This assumption will be tested by conducting in-situ XRF analyses along transects perpendicular to the suspected source. Several

transects will be set up at each residence, and 3-5 30-second in-situ XRF readings will be collected at several distances along each transect. At some residences, the XRF results will be used to identify a sampling unit (SU1) as a rectangle parallel to the road across the entire yard. For residences whose back yards are adjacent to the facility (e.g. those along Kenner Street), SU1 will be established parallel to the facility across the back of the property. Dimensions of this SU will depend on yard size and configuration and observed concentration trends from in-situ XRF analysis.

The use of SU1 is primarily to provide a line of evidence for attribution of contaminants to the suspected sources. Therefore, it is not necessary for to establish and sample a SU1 in each yard; only a subset of yards. For yards where in-situ XRF is conducted, but no SU1 is established, a single 30-increment ICS will be collected from the entire yard (excluding the drip zone DU as discussed below). For those residences at which SU1 is established, the area of the SU in square feet (ft^2) will be recorded on the field sheet, and a 16-increment ICS will be collected from this SU. Fewer increments are justified for SU1 since no cleanup decision is being made on the result; it is only being used in conjunction with the in-situ XRF analyses as an aid in attribution. Therefore a less accurate and precise estimate of the mean concentration in the SU is tolerable.

When SU1 is used at a property, a second SU (SU 2) will be established as the rest of the yard (excluding SU1 and the drip zone SU3) as shown in Figure 4. A 25-increment ICS will be collected from this SU. The area of SU2 will be measured using GIS tools after the field work is complete. If a special use exposure area is observed in a yard such as a children's play area, its area in ft^2 will be recorded on the field sheet and it will be sampled as a separate SU. The number of increments collected from a special use are will be determined in the field based on the SU size, but will contain no less than 15 increments. When an SU1 is not established at a yard, the entire yard (excluding the drip zone SU) will be sampled as a single decision unit with a 30-increment ICS.

Most of the homes in the study area were built prior to the banning of lead-based paint in 1978. Therefore it is possible that lead levels in soil near the structures may be elevated due to that potential source rather than to activities attributable to Shapiro Brothers Inc. This will be assessed through in-situ XRF analysis conducted along transects extending away from the house in 4 directions. This approach was used recently for a lead investigation in an older residential area of Kansas City, and showed that drip zone lead effects can extend out 6 feet or greater. The drip zone transects will be conducted at both the background and target residences.

Each SU and DU ICS will be air dried, disaggregated, sieved, and analyzed by XRF. For yards where an SU1 and SU2 sample are collected, an estimate of the contaminant concentration for the entire DU (yard) will be made by mathematically combining results for the ICS collected in SUs 1 and 2. A weight-averaging approach will be used using the formula below, where *i* is the number of SU-ICS (usually 2), *w* is the relative size of the region represented by each SU-ICS sample, and $\overline{X}$ is the mean of each ICS representing each SU region.

$$\text{Weighted Mean} = \sum_i w_i \overline{x_i}$$

Alternatively, this weight-averaging may be done by physically combining representative portions of each ICS sample and conducting an additional analysis on the combined sample.

An observation of concentration trends along the transects perpendicular to the suspected contaminant sources and decreasing contaminant concentrations from SU1→ SU2 will support the CSM and attribution of yard contaminants to facility activities. An observation that this trend is significantly lower or absent in yards of homes further from the facility (background yards) compared with those adjacent to the facility or along haul routes will also support attribution of

contaminants to the facility operations. Comparison of street sweeper debris collected from streets near the site with debris from streets outside the influence of the site will provide an additional line of evidence towards attribution. Results that show higher site-related contaminant concentrations in street sweepings collected closer to the facility would support attribution of yard contaminants to the facility. Results showing higher contaminant concentrations in wipe samples collected from similar surfaces at background residences vs. residences adjacent to the facility or to haul roads will further aid in attribution.

Based on the CSM, it is assumed that the release mechanism is similar for the yards, and therefore we expect similar levels of contamination and contaminant variability within the SU types across different yards. Therefore, rather than collected replicate ICS in each SU and DU to measure variability, we will collect 3 replicate ICS in 20% of the SUs. The replicate data from each SU type and DU will then be examined using graphical and statistical tools. If deemed appropriate, variability will then be extrapolated from DUs with replicate samples to those without for purposes of estimating uncertainty and upper confidence limits.

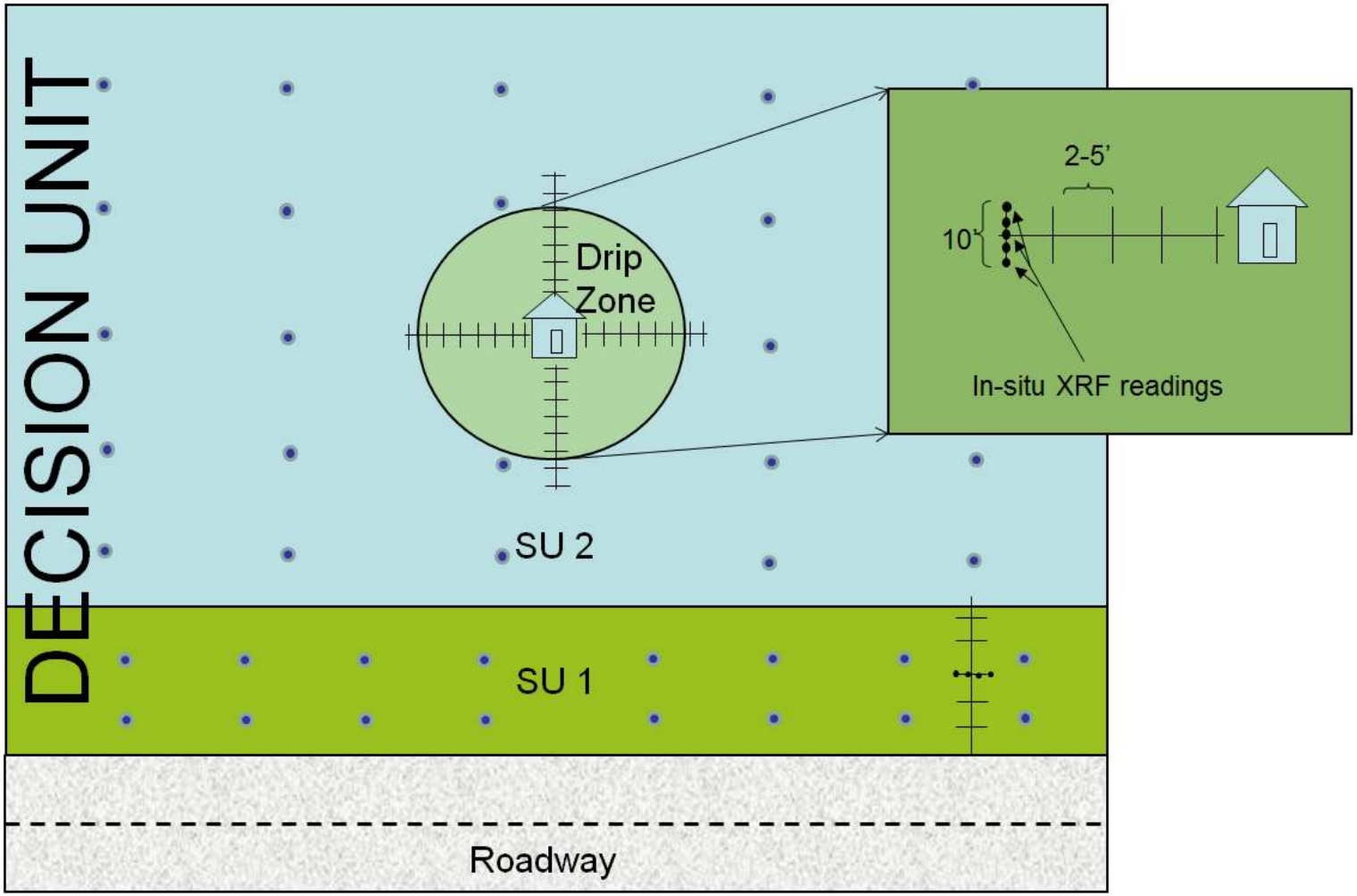

Figure 4. Sampling Design

4.0 Field Activities

The sampling event will include collection of surface and shallow subsurface samples at residential yards for which the department gains access. Approximately 70 residents provided access, but 20 of these were background residences. Since only 3-4 background residences are needed for the investigation, the total number of houses to be sampled is approximately 55. If staff are not able to complete sampling at all these residences in the 4 days planned, yards nearest the facility will be prioritized. Door hang tags will be prepared to place on doors of residences where access was provided but are not sampled.

Surface water and sediment samples will be collected upstream and downstream of the facility to near where the drainage enters Plattin Creek. No samples are planned from the stretch of Plattin Creek between the tributary mouth and the Mississippi River since the location where the drainage enters Platting Creek is at the same place where the city WWTP discharges and it would be difficult to decipher attribution between these two contaminant sources.

Surface wipe samples may be collected on various structural surfaces at some of the background and target residences based on field observations. A 30-increment composite sample will be collected from street sweeper debris collected by the City of Festus in areas outside the influence of the facility. All sample locations and descriptions and field notes will be recorded on field sheets forms shown in Appendix B. Personnel will determine global positioning system (GPS) coordinates of all surface water and sediment sampling locations. GPS locations will not be collected at yards since locational data for each parcel is already available from the county tax assessor. Site sketches and in-situ XRF readings at each residence will be recorded on the field sheets, and all samples collected will be recorded on chain of custody forms. Photographs will be taken to document various aspects of the sampling event.

4.1 Sample Collection

Except as otherwise noted, all aspects of sampling shall be performed using standard operating procedures (SOPs) established within the ESP, Environmental Emergency Response/Field Services Section (EER/FSS) for the collection, preservation, and transport of various media sampled. Modifications to the following sampling methods are described below and others may be made in the field based upon conditions encountered. Any modifications to the methods will be noted on the field sheets and in the SI/RSE Report prepared by SAU.

4.1.1 Surface and Shallow Subsurface Soil Sampling

In-situ XRF analyses will be conducted along transects set up perpendicular to the road to aid in attribution and to help establish the width of SU2. The boundary of SU2 will be set at a distance where distinct drops in lead concentration are observed with distance from the road. If trends in this distance are observed after several residences, in-situ XRF analysis will be discontinued and the width of SU2 will be set based on previous observations. The area of SU1 will be measured and recorded on the field sheet.

Surface soil ICS samples will be collected as follows. An EVS™ or EnviroStat™ stainless steel incremental sampling tool will be used to collect equal-mass increments of soil at equal spacing across each SU. A 2-cm diameter, 6-cm long stainless steel sampling core will be used. The sampling core will be advanced into the soil and ejected into a 2-gallon size heavy duty sealable plastic bag. This process will be repeated at each increment collection location, and all increments will be combined together into one bag. Bags will be labeled with the Location ID, SU#, date, time, & sampler's initials.

Past experience has indicated that drip zone lead effects can extend out 6 feet or more from residential structures. For this study in-situ XRF analyses will also be used initially to establish

the boundaries of the drip zone SU. Transects will be set up extending out from each side of the residence. Along each transect, 30-second in-situ XRF readings will be taken at 1'-5' intervals starting at 30" from the house and extending outward until a distinct significant drop in the lead concentration is observed or until the levels drop near background. At each distance interval, five separate in-situ XRF readings will be taken at 2' intervals perpendicular to the transect as shown in Figure 4. The average of the five readings will be used to represent the concentration for that distance interval. The estimated background level will be based on in-situ XRF readings collected from surface soil in West City, Sunset, and Billy Porter Memorial Parks. The distances that elevated lead levels extend away from a house will be used to construct a "drip zone" shown in Figure 4. If, after several houses a trend is observed in the extent of drip zone influences, in-situ XRF analyses may be ceased and the drip zone size inferred from previous observations.

ICS samples will be conditioned as described in Section 4.3 and analyzed for lead by XRF. A portion of the samples will also be submitted for laboratory confirmation analysis. A limited number of ICS samples collected from yards nearest the facility will be submitted for analysis of PBDEs, PAHs, Toxaphene and PCBs. An archived soil sample collected from beneath the auto fluff pile in January will also be submitted for analysis of PBDEs.

4.1.2 In-Situ XRF Analysis

The XRF analyzer will be calibrated and standardized as per the manufacturer's instruction. Known reference standards containing certified concentrations of lead at various levels will be analyzed prior to initiating field work. Results will be documented on an XRF data field sheet for each residence. The serial number of the analyzer(s) used at each residence will be noted on the field sheet. Prior to XRF analysis, the Location ID, SU, transect, distance & analyst will be entered into the XRF analyzer.

The average lot size of the residences selected for sampling is approximately 10,500 ft^2 (~ ¼ acre) An area of this approximate size will be established as background DUs in Sunset, West City, and Billy Porter Memorial Parks. Surface soil ICS samples will be collected from these areas as described in 4.1.1. The bags of soil from the background DUs will then be manually mixed to homogenize the soil as well as possible, and then XRF analysis will be conducted on the soil through the bags 5 times with mixing in between. The average of the 5 readings will provide an estimate of the background lead concentration in each background park DU. The lead result for each background DU will be averaged, and that value will be used as reference for in-situ measurements collected at target residences as described below. The collected bags of background soil will also be returned to the lab for processing and analysis as described in 4.4.

At each distance interval from the house along the transects, the surface vegetation will be removed. Any soil clinging to the vegetation roots will be shaken back out over the bare soil. The soil will be flattened out, large debris (rocks sticks) removed, and a 30 second in-situ analysis will be performed. The Location ID and SU# will be entered into the XRF prior to each analysis. The results will be recorded on the field sheet. Two to four additional in-situ analyses will be conducted at the same distance interval perpendicular to the transect at 2' spacings. The results will be recorded on the field sheet, and the averages for each distance interval will be calculated.

When a distinct drop is observed in the average lead concentration along a transect, no further in-situ readings will be taken for that transect, and a flag will be placed to mark the boundary of the SU for that transect. For the drip zone, the process will be repeated for the other transects to form a polygon around the house considered the "drip zone" of influence from lead-based paint.

In-situ XRF precision will be evaluated once per day per XRF analyzer by collecting 7 replicate XRF readings at a single location without moving the analyzer.

The XRF data will be downloaded from each analyzer upon returning from the field and will be QC-checked and validated.

4.1.3 Lead Paint Analysis

Accessible painted exterior surfaces at some residences built prior to 1978 may be analyzed for the presence of lead-based paint using an XRF analyzer. Results will be recorded on the field sheet. If a sufficient mass of paint flakes are obtainable on the soil surface near the residence, it may be collected in a baggie for potential analysis. Data from these analyses would be used as additional lines of evidence that lead detected in drip zones is due at least in part to lead paint.

4.1.4 Surface Wipe Samples

Wipe samples will be collected at some residences based on visual observation, proximity to the facility, and weather conditions. Wipe samples will be collected on 1 ft^2 surface areas identified in the field following the procedure outlined in the DHSS Lead Poison Prevention Manual (MDHSS, 2009). Surface wipes will be collected on comparable surfaces at both background residences and target residences. For example, if a surface wipe is collected from the east-facing exterior siding of a near-facility residential house, one will also be collected from the east-facing siding of a background residential house.

4.1.5 Street Sweepings Sample

The City of Festus will provide the Department with access to street sweeper debris collected in roadways located away from the Shapiro facility. A 30-increment composite sample will be collected from equally spaced locations across the collected street sweepings as is practical.

4.1.6 Surface Water and Sediment Sampling

Surface water grab samples will be collected by immersing the sample containers directly into the drainage leading to Plattin Creek in areas where it is accessible. Samples will be collected from locations upstream of the site, at probable points of entry of any runoff from the site, and from locations downstream of the site. Approximate sampling locations are shown in Figure 5. If required to enter water, personnel will approach the sampling location from downstream to minimize sediment disturbance during collection.

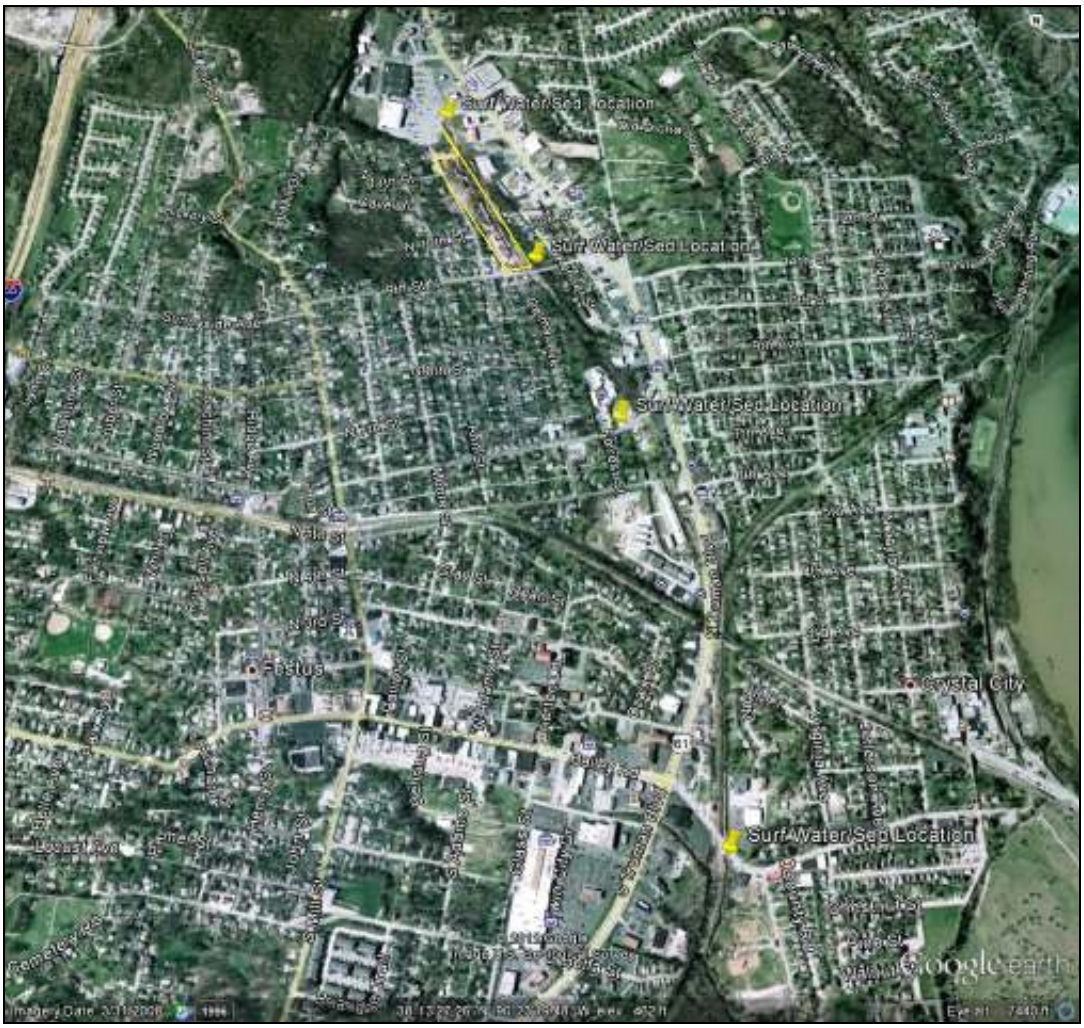

Figure 5. Approximate Surface Water/Sediment Sampling Locations

Sediment grab samples will be collected using clean stainless steel spoons to retrieve sediment from the 0- to 2-inch depth from the bottom of drainage. At each sediment sampling location, 15 increments of approximately 30 grams each will be collected along a transect perpendicular to the drainage. The increments will be combined to form a composite sample that represents average conditions of the sediment bed at that location. The increments of sediment will be transferred to clean aluminum foil pans and any excess water decanted. The sediment will be mixed thoroughly using a stainless steel spoon and placed into a resealable plastic bag. Sediment samples will be collected at the same general locations as surface waters.

4.2 Sampling Order

Though not always practical, attempts will be made to collect all samples in the order from least-to-most contaminated.

4.3 Sample Conditioning and Analysis

Soil and sediment samples will be returned to the laboratory and air dried in aluminum pans lined with wax paper. Since indoor dust is known to be a significant source of PBDEs, the samples to be submitted for that analysis will be dried and processed under a hood to minimize potential for contamination of the samples. The air dried samples will be returned to their original bags, placed inside an additional bag, and then disaggregated by striking the sample 30 times with a mallet to disaggregate clumps of soil. The soil sample will then be passed through a 0.25mm sieve to obtain the target particle size. The soil passing through the sieve will be placed inside a thin-walled resealable plastic baggie. XRF analysis will be conducted on the dried/sieved soil samples following the SOP in Appendix C. The XRF analysis of the SU ICS

samples for lead is primarily to provide a line of evidence for attribution of yard contaminants to roadway sources. After XRF analysis, representative area-weighted portions of the ICS collected from SU1 and SU2 will be combined to form a DU ICS which will then be submitted for laboratory analysis of arsenic, cadmium and lead. The remaining volume of soil in the SU ICS will be archived for potential future analysis including lead speciation.

Should the investigation indicate that a removal action is warranted, it may be of interest to know whether yard soil would need to be handled as hazardous waste should it be excavated. Instructions will be relayed to analytical personnel on selected DU ICS samples that toxicity characteristic leaching procedure (TCLP) analysis will be performed.

4.4 Number of Samples, and Container and Preservation

The estimated number of samples for laboratory analysis is provided in the following table. Note that samples receiving XRF analysis only are not included. The actual number of samples submitted will depend on lead concentrations observed during XRF analysis and visual observations made during collection of the samples.

Matrix	Analytes	Number of Samples
Soil	Lead, Cadmium, Arsenic	60
Soil	PAHs, Toxaphene, PCBs	3
Soil	PDBEs	6
Wipes	Lead, Cadmium, Arsenic	20
Surface Water	Lead, Cadmium, Arsenic, Zinc, Copper, Hardness	10
Sediment	Lead, Cadmium, Arsenic, Zinc, Copper	10

Refer to the following tables for container and preservation requirements on all samples. Note that soil and sediment samples will initially be collected in large resealable plastic bags for transport to ESP. Once samples have been air dried, disaggregated, sieved, and analyzed by XRF, they will be submitted for laboratory analysis. All samples will be collected in certified-clean containers and preserved in the field as appropriate.

Soil/Sediment Samples			
Parameters	**Container(s)/Volume**	**Preservative(s)**	**Holding Time**
Total Metals (As,Cd,Cu,Pb,Zn)	One or more 8-oz glass jars or a 1-gallon resealable baggie	Cool, 2^0C	6 months
PAHs, Toxaphene, PCBs, PBDEs	One or more 8-oz glass jars or a 1-gallon resealable baggie	Cool, 2^0C	6 months

Surface Water Samples			
Parameters	**Container(s)/Volume**	**Preservative(s)**	**Holding Time**
Total & Dissolved Metals/Hardness (As,Ca,Cd,Cu,Pb,Mg, Zn)	One 250ml plastic Nalgene bottle	HNO_3 to pH<2, Cool	6 months
Dissolved Metals	One 250ml plastic Nalgene bottle	Filter (0.45 µm), HNO_3 to pH<2, Cool	6 months

Wipe Samples			
Parameters	**Container(s)/Volume**	**Preservative(s)**	**Holding Time**
Total Metals (As, Cd, Pb)	One 50ml plastic extraction vial	Cool, 2^0C	6 months

4.5 Chain-of-Custody

The ICS soil samples will be stored in the plastic bags in which they were collected. Each bag will be labeled with a unique DU identifier, date, collector initials, and depth using permanent marker. The samples will be recorded on a separate COC form (Appendix B). The samples will remain in the custody of ESP field personnel during sample processing and XRF analysis. Those samples identified for laboratory analysis will be placed into appropriate sample containers and entered onto an ESP COC form to be relinquished to a sample custodian at the state's environmental laboratory for analysis.

5.0 Quality Control

5.1 Field Decontamination

Clean disposable latex gloves will be worn by sampling personnel and clean or field decontaminated equipment will be utilized for each separate DU to minimize the possibility of cross-contamination. Reusable soil sampling equipment will be cleaned between DUs as follows:

- Scraping with putty knife or similar tool to remove soil clumps;
- Brushing with stiff-bristle nylon brush to remove visible soil debris;
- Immersion in a 5-gallon bucket of soapy water and further brushing;

- Rinsing tool with DI water;
- Wiping dry with clean paper towels

5.2 Quality Assurance/Quality Control (QA/QC) Samples

The following samples will be collected as part of the quality control/quality assurance procedures for the investigation.

5.2.1 Equipment Rinsate Blank

An equipment rinsate blank will be collected after decontaminating the soil coring tool between DUs once per day of sampling. Following decontamination of the tool, DI water will be rinsed over the core cylinder and into a sample container which will travel with the other samples back to the laboratory for analysis.

5.2.2 Duplicate Surface Water Sample

A duplicate surface water sample will be collected at the downstream sampling location nearest the facility in accordance with the SOP MDNR-ESP-210.

5.2.3 Duplicate Sediment Sample

A duplicate sediment sample will be collected at the downstream sampling location nearest the facility in accordance with the SOP MDNR-ESP-210.

5.2.4 Replicate Field ICS

Replicate ICS will be collected to measure precision of the overall soil sampling and analysis process, and to provide data for calculating a conservative estimate of the mean concentration. Within 20% of the SUs, after the initial ICS is collected, a total of three ICS will be collected in an identical manner, except the increment locations will be off-set as much as possible from each

within the SU/DU. The replicate samples will be labeled with the DU/SU name and "replicate 1", "replicate 2", and "replicate 3". SUs will be chosen for replicate sampling based on the proximity of the yard to the facility, in-situ XRF results if available, and other field observations. An effort will be made to conduct replicate sampling at residences both near to facility and further away along haul routes. Replicate sampling will also be conducted at 2 of the background residences.

A relative standard deviation less than 30% will generally indicate acceptable precision; however the degree of precision required depends on how close the estimated mean concentration is to the screening level. Thus, more data variability may be tolerable if the concentrations measured are either well above or well below the screening levels.

5.2.5 XRF Precision Samples

The precision of bagged sample XRF analyses will be evaluated by conducting multiple analyses of selected samples at a frequency of 5% for bagged sample analysis and once per day per analyzer for in-situ analysis. For bagged samples, the precision samples will be selected based on lead concentrations. Samples will be chosen to reflect the full range of concentrations observed, however, special emphasis will be placed on selecting samples near the screening levels if possible. The selected sample will be analyzed seven separate times without moving the bagged sample (without moving the analyzer for in-situ analysis) between each analysis. The relative standard deviation among the multiple analyses will be assessed as an indication of instrument precision.

5.2.6 Laboratory Subsampling Replicates

Laboratory subsample replicates will be requested on selected ICS samples submitted to the laboratory. The laboratory will subsample the container two times and conduct two separate analyses. This procedure measures the within-sample container matrix heterogeneity and the error associated with subsampling the container. Samples will be identified for replicate subsampling by indicating in the "comments" field of the ESP COC form.

5.2.7 Laboratory QC

Laboratory precision and accuracy will be assessed as described in the QAPP for Pre-Remedial/Pre-Removal and Targeted Brownfields Site Assessments Revision 6, December 7, 2007, and ongoing.

6.0 Investigation Derived Wastes (IDW) Plan

Efforts will be made to minimize IDW generation. IDW may include soil, sediment, decontamination fluids, disposable sampling equipment, and disposable personal protective equipment (PPE).

Field personnel will attempt to return unused soils to their source immediately after generation or, if warranted, containerize and return to the ESP laboratory for proper disposal. Disposable PPE and disposable sampling equipment will generally be handled as solid waste, containerized, and properly disposed. Wash and rinse waters generated during equipment decontamination will generally be discharged to the ground on-site or, if warranted, containerized and returned to the ESP laboratory for proper disposal.

7.0 Site Safety

A safety briefing will be held on-site prior to initiating field activities and field personnel will be required to read and sign the site-specific health and safety plan. The site safety plan is attached as Appendix A.

8.0 Reporting

ESP will provide a copy of the chain of custodies and laboratory result sheets. SAU will prepare an Investigation Report.

References

Festus, 2011 St. Louis Testing Laboratory, Report of Test Results – Street Sweepings Sample, City of Festus, August 12, 2011.

MDNR, 2007 Missouri Department of Natural Resources, QAPP for Pre-Remedial, Pre-Removal and Targeted Brownfields Assessments, December 7, 2007.

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MDNR, 2011a Missouri Department of Natural Resources, RCRA Site Investigation Report, September 14, 2011.

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MDNR, 2012 Missouri Department of Natural Resources, Data from January 2012 Sampling Event (not yet published).

NPN, 2011 Letter to Mr. Greg Shapiro, Shapiro Brothers/MW Recycling, from David B. Rowe, NPN Environmental, December 12, 2011.

USEPA, 1990 U.S. Environmental Protection Agency Hazard Ranking System, 40 CFR Part 300, Appendix A, 55 FR 51583, December 14, 1990, http://www.thefederalregister.com/d.p/2007-05-25-E7-10055.

USEPA, 1992 U.S. EPA, Hazard Ranking System Guidance Manual, EPA/540/R-92/026, November, 1992. http://www.epa.gov/superfund/sites/npl/hrsres/index.htm

SIGNATURES

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Approved by:

Julieann Warren
Unit Chief
Site Assessment Unit
Hazardous Waste Program

Date: 3-27-2012

APPENDIX A

Health & Safety Plan

MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES PROGRAM

SITE HEALTH AND SAFETY PLAN

1.0 INTRODUCTION

This plan has been prepared for implementation by DNR employees, using operating procedures for which they are specifically trained. Any use of the plan by other agencies, organizations, or private individuals is at their own risk.

2.0 KEY PERSONNEL

MDNR OSC: Sean Counihan SAFETY OFFICER: Sean Counihan

OTHER MDNR PERSONNEL/TITLE:

Enivirnmental Specialists Ken Hannon, Michael Stroh, Valerie Wilder, Shelly, Jackson, Paul Embree, Joe Twellman, Darren Bernat,

3.0 SITE INFORMATION

Site name Shapiro Brothers Scrap Yard County/City: Jefferson County/ Festus

Sampling date: 04/09/2012 Site Description: The site is located at 9th Street and Delmar Street. It is a scrap metal processing plant. They buy and sell scrap, dismantle railroad cars, and are a demolitions contractor. After complaints about dust and dirt covering houses and vehicles, the city collected a composite soil sample from the vicinity of the business at 9th St., Delmar Street, and Vine Street. The results of that sample indicated high levels of lead. Samples from a MDNR RCRA investigation in September of 2011 confirmed the presence of lead in hazardous amounts, whereas samples collected and analyzed by the PRP did not. This additional sampling will help evaluate the site for further action.

3.1 Overall Incident Risk/Hazard Analysis

Chemical: _____Serious _____Moderate X____Low _____Unknown

Physical: _____Serious _____Moderate X____Low _____Unknown

3.2 Contaminant(s) of Concern: **Contents are unknown**

3.2.1 Physical State: _____Liquid X_____Solid _____Sludge _____Gas/Vapor

Chemical Characteristics: (check all that apply)

_____a. carcinogen _____b. biological _____c. corrosive _____d. combustible
_____e. explosive _____f. flammable _____g. volatile X_____h. poison
_____i. radioactive _____j. reactive _____k. other: Unknown Chemicals_____

3.2.2 Physical Hazards: (check all that apply)

a. _____overhead _____b. below grade _____c. confined space __X____d. noise
e.X_____splash _____f. fire/burn X_____g. puncture _____h. heat stress
i. X_____cut X_____j. slip/trip/fall _____k. cold stress _____l. electrical
m. _____mechanical/heavy equipment _____n. other:_____

* The need for confined space entry by ESP personnel shall be evaluated on a site-by-site basis. A confined space entry permit must be signed by the appropriate Unit or Section Chief prior to ESP employees entering a confined space (29 CFR 1910.146). Confined space entry shall be screened in at least Level B prior to downgrade. **Adequate resources must be available and specific planning and tasks determined before confined space entry is initiated.**

3.3 Task-Specific Risk Analysis (attach additional sheets as necessary)

Task Description	Chemical Hazards	Physical Hazards	Level of Protection
Sample collection	h	e d g i j	Level D
	a b c d e f g h i j k	a b c d e f g h i j k l m n	
	a b c d e f g h i j k	a b c d e f g h i j k l m n	
	a b c d e f g h i j k	a b c d e f g h i j k l m n	

4.0 MEDICAL SURVEILLANCE AND PERSONNEL TRAINING REQUIREMENTS

All ESP field personnel participate in a medical monitoring program and are trained at least to the level of "Hazardous Substance Emergency Response-Technician" as required and specified in the department's written health and safety program located in Section 2 of the MDNR-Hazardous Substances Emergency Response Plan (HSERP). The written policy satisfies requirements set out in 29 CFR 1910.120. MDNR ESP's respiratory protection program meets the requirements of 29 CFR 1910.134.

ESP personnel will ascertain as much information as possible regarding health and safety issues associated with the

site prior to initial entry. Information shall include chemical and physical hazards as listed above, types and amounts of materials involved, and citizens/areas threatened by the incident.

5.0 PERSONAL PROTECTIVE EQUIPMENT

ESP shall utilize the Protection Level categories defined in 29 CFR 1910.120, Appendix B, and known as Levels A, B, C, and D. Refer to Section 2 of the MDNR-HSERP for definitions of Protection Levels. ESP personnel shall inspect APRs and SCBAs at least monthly and maintain a record of such to ensure equipment is functional.

Levels of protection shall be reassessed and upgraded as conditions change and information is updated to comply with worker safety while performing site activities.

Action Levels for evacuation of work zone pending reassessment of conditions:

X Level D: O_2 < 19.5% or > 25%; explosive atmosphere > 10% LEL; organic vapors > background levels; othe

X Level C: O_2 < 19.5% or > 25%; explosive atmosphere > 20% LEL; organic vapors (in breathing zone) > 5 m.

X Level B: O_2 Explosive atmosphere > 20% LEL; unknown organic vapors (in breathing zone) > 500 m.u.; othe

X Level A: ESP personnel shall evaluate the need for entry on a site-specific basis and may utilize its emergency response contractor for Level A situations which may arise.

6.0 FREQUENCY AND TYPE OF AIR MONITORING/SAMPLING

Instrument	Contaminant of Concern	Sample Location (Area/Source)	Frequency	Odor Threshold/ Description

7.0 SITE CONTROL MEASURES

7.1 The "Buddy-System": ESP personnel performing any work activities within the exclusion zone shall employ the "buddy-system" at all times, as required and defined in Section 2 of the MDNR-HSERP. The "buddy-system" may not be required while an ESP staff member is observing or providing oversight of cleanup activities performed by a contractor or responsible party.

7.2 Safe work Practices: Refer to Section 2 of the MDNR-HSERP for written safety practices to be followed at all times by ESP personnel while on-site at an incident.

7.3 Site Communications: The use of two-way radios or establishment of hand signals for communications shall be determined prior to entering the work zone and followed by ESP personnel.

7.4 Radiation Safety: Due to the possibility of an unknown radiation hazard being present on a site, ESP personnel shall be required to wear radiation indicator badges (TLD badges) while on-site.

7.5 Work Zones: ESP personnel shall ensure work zones are established and be aware of their locations.

8.0 DECONTAMINATION PROCEDURE/SOLUTIONS:

Personnel: Gloves and clothing will be placed in a garbage bag and returned to Jefferson City for proper disposal.

Equipment: Returned to Jefferson City for proper decontamination.

Instruments: Returned to Jefferson City for proper decontamination or disposed of back in Jefferson City.

Decontamination fluids/materials may be to be containerized for proper disposal.

9.0 EMERGENCY INFORMATION:

In the event of an emergency, notify the MDNR Environmental Emergency Response Office at 573/634-2436. The Duty Officer will make the appropriate notifications.

10.0 ADDITIONAL EMERGENCY INFORMATION/NUMBERS:

Hospital: Jefferson Regional Hospital 636-933-1000

Location/Specific directions from Site: 1400 Highway 61 South, Festus, MO- refer to map

	Name/Location	Telephone Number
Ambulance:	Joachim-Plattin Ambulance 619 Collins Drive, Festus, MO	636-937-2224
Police/Sheriff:	Festus Police Department 100 Park Ave. Festus, MO	636-931-3646
Fire:	Festus Fire Department 212 North Mill Street, Festus, MO	636-937-6646

Poision Control:

Cellular Telephones/Other: Sean Counihan mobile 573-644-3697

1) Central Accident Reporting Office- WORK RELATED INJURY 1-800-624-2354

This number is to be called in the event of a NON LIFE THREATENING injury PROIR to seeking medical care.

11.0 SIGNATURES

ESP personnel shall certify they have read the plan and addressed any questions regarding worker health and safety by signing and dating below followed by printing their name and title.

Signature	Printed Name/Title	Date	TLD Badge

APPENDIX B

Field Sheets:

Chain of Custody Form

Site Sketch Form

Missouri Department of Natural Resources

Team No.____

SOIL SAMPLE LOG
Shapiro Brothers Site, Festus, MO

Loc. ID	Sample ID (SU/DU#)	Date Collected	Time Collected	Collector's Name	Comments

Missouri Department of Natural Resources

SHAPIRO BROTHERS SITE
RESIDENTIAL YARD FIELD SHEET
LOCATION ID: STREET:

N

XRF SerNum(s)_____ Date Screened/Sampled_____

Team Member(s):_____

APPENDIX C

XRF SOP

Standard Operating Procedure for XRF Analyzers
Shapiro Brothers Salvage Yard SI/RSE Investigation - Bagged Samples

In-situ surface soil analyses will be conducted in the field along transects established perpendicular to residential structures. Bagged soil samples will be analyzed with the analyzer in the testing stand and controlled from a laptop PC. A 30-second analysis time will be used for in-situ testing and 45 second analysis time for all bagged samples. *Note, do not operate the laptop PC software with the laptop connected to the network servers.*

All XRF analyses will be recorded either on field sheets or in a written log book for each instrument. The analyst will record the date, the XRF run number (automatically generated by the XRF), sample ID information, and the total Pb result in mg/kg.

I. Startup

- Power up the analyzer and start the InnovX PC software.
- The instrument will automatically perform an initialization procedure, which lasts for 1-2 minutes.
- Following initialization, place the stainless steel standardization disc over the instrument's sampling window in the test stand and close the stand cover.
- Click the "Standardize" button from the upper left window titled "Soil" in the PC software. The instrument will perform an internal 60-second standardization procedure. During standardization, and any other time the x-ray tube is on, the red light on top of the test stand will flash. When the x-ray tube is off, the red light will remain on solid. ***Do not open the test stand lid when the light is flashing.***
- Following standardization, an information window will pop up displaying the analyzer resolution. Record the resolution in the XRF Log Book along with the Run number automatically assigned by the analyzer.
- The analyzer is now ready to analyze standard reference materials (SRMs).

II. Calibration Check

- The NIST 5861 (41ppm Pb), 4315 (244ppm), 2586 (431ppm), 2711 (1162), and 2710 (5532ppm), and Blank SRMs will be analyzed at the beginning of each use. Selected SRMs will also be reanalyzed periodically during the day based on site findings and length of time in the field.
- On the PC software main menu bar, select "Edit" and then chose "Edit Test Information". A data entry window will pop up allowing input of information about the next test.
- Select your name from the "Analyst" dropdown menu & select the check sample from the "Chk_Sampl" dropdown list.

- Click the "Start" button in the Soil Window in the upper left corner of the screen to initiate the test.
- Assess instrument calibration by comparing the measured values to the control chart prepared for each analyzer for each SRM. Verify that the result is within 2SD of the control chart mean, if so, continue to In-situ or Bagged Sample Analysis sections below.
- If values outside 2SD of control chart mean are observed, re-analyze the calibration check sample, or if there are more than one SRM sample cup, analyze another one. If the measured value is still outside 2SD, re-standardize as described above, and re-analyze the standard(s). If the result is still outside 2SD, note the failure in the logbook. If more than one check sample fails this procedure on a given day (particularly if the exceedances are in the same direction – e.g. both 2SD above or below the mean), it may be necessary to update the control charts, manually enter new calibration response factors into the analyzers, or both.

III. Sample Analysis

All XRF analyses will be conducted using InnovX X-ray tube analyzers. In the event of instrument malfunction in the field, in-situ analyses may also be conducted using Niton Xli700 Amerecium^{232} isotope analyzers.

In-Situ Analysis

- Following successful calibration check, click Edit from the main menu bar and select Edit sample Information.
- Enter all applicable information about the first in-situ analysis into the iPAQ using the dropdown and direct edit fields.
- Remove any vegetation from the soil surface exposing an area of approximately five square inches. Shake out any soil clinging to vegetation roots back onto the cleared spot and use a stainless steel spoon or other tool to prepare a one square inch area on which to place the XRF analyzer window. Place a thin-walled plastic baggie over the analyzer snout to protect it from the soil.
- Initiate a 30 second analysis. The analyzer can be operated hands-free using the tripod attachment.
- Record the information in columns on the XRF Data Field Sheet, and continue with additional analyses.
- When data from a given distance for a transect is collected, calculate and record the average on the field sheet.
- Periodically and at the end of the day, re-analyze the SRMs as described in the Calibration Check section above.
- Once per day per analyzer, conduct a precision check by repeating an in-situ analysis 7 times without moving the analyzer between tests. The precision check should be conducted in an area found to contain elevated lead, preferably a concentration near the 400 mg/kg action level.

Bagged Sample Analysis (InnovX analyzers)

- Following successful calibration check, click Edit from the main menu bar and select Edit Sample Information.
- Enter all applicable information about the first sample to be analyzed from the bag label, using the dropdown menus and direct edit fields
- Gently roll the sieved soil around inside the bag to homogenize;
- Place the sample over the analyzer's sampling window ensuring that the soil and bag are in as close contact with the window as possible.
- Close the stand cover.
- Click the Start button from the Soil window to initiate the test.
- The data being acquired will appear in the Chemistry window in the lower center of the PC screen during analysis.
- After analysis, the results will appear in the Results window on the PC.
- A running list of the analyses will appear in the window at the lower left of the PC screen.
- The sample information will remain from the previous test, so no changes are necessary for subsequent replicate analyses on a given sample bag.
- Roll the sieved soil around inside the bag, and re-analyze. Repeat analysis 2 more times.
- Calculate a mean and 95%UCL for the replicate analyses.

> If the mean and the 95% UCL lead concentrations straddle the 400ppm or 1,200 ppm screening level, conduct 3 additional replicate analyses, recalculate the mean and UCL and reassess. This process may need to be repeated for another round of 3 analyses in an effort to get both the mean and UCL on one side of the screening level. It may not be possible in all cases to do this (e.g. when the mean and UCL are very close to the screening level). If after 10 replicate analyses, the mean and UCL still straddle the screening level, the sample will be considered to contain lead above the screening level

- After completing replicate analysis on a bagged sample, click the Edit Sample Information again and enter information for the next bagged sample as above.
- Place the second sample in the test stand, close the cover and initiate the analysis.
- Repeat for remaining samples
- An instrument precision check will be conducted at a frequency of 5%. This will consist of analyzing a sample seven separate times <u>without</u> moving the sample in between each analysis. The %RSD on the replicate analyses should not exceed 15%. Select a bagged sample for the precision check that has elevated lead levels, preferably a concentration near the action level of 400 mg/kg if possible.

IV. Data Downloading

- After the last analysis for the day, select Readings from the main menu bar, and chose Export Readings.

- In the Export pop up box, verify that the "Export readings on date" radio button is selected, the Mode to export is "All", and today's date is circled on the calendar.
- Click OK.
- Insert a USB thumb drive in the laptop, download data to it, and then move data onto network server. Select the directory and file name for the downloaded data. For this project, file naming convention is date & XRF serial number (e.g. 10_14_11_5434)
- Verify that the file type is "Comma Separated Values", and click Save.
- A message will pop up indicating a successful download, and asking whether you would like to open the file. Select Yes, and file will open in Excel. Verify that the data appears correct. Make any corrections you had noted in the run log book.
- Choose Save As from the File menu, and select File Type "Microsoft Excel 97 Workbook.
- Close the InnovX software, power down the analyzer, and shut down the laptop PC.
- Copy the file from thumb drive to the network as soon as possible after analyses. Files will be stored in the H:/Sections/Superfund/SiteFiles/Shapiro/XRF data directory.

Note: For any operation that requests a password, the administrator password is lower case z, and the factory password is 1234.

STATE OF MISSOURI
Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director
DEPARTMENT OF NATURAL RESOURCES
www.dnr.mo.gov

MEMORANDUM

STATE OF MISSOURI
GLEN J. YOUNG
RG
2003003605
3/14/12
REGISTERED GEOLOGIST
5 pages + Attachments

DATE: March 14, 2012

TO: Julieann Warren, Chief,
Hazardous Waste Program,
Division of Environmental Quality (DEQ)

FROM: Peter Bachle, Geologist
Geological Survey Program,
Division of Geology and Land Survey (DGLS)

SUBJECT: Geohydrologic Summary of Shapiro Brothers Salvage Site

LOCATION: NE¼ Section 6, Township 40 North, Range 6 East, Festus 7.5-Minute Quadrangle, Jefferson County, Missouri
Approximately 38° 13' 52" North Latitude and 90° 23' 24" West Longitude

LOCATION AND PHYSIOGRAPHIC SETTING

The Shapiro Brothers Salvage site is located on the northeast side of the intersection of 9th Street and Delmar Street, Festus, Missouri. The site lies approximately one block west of Highway 67/61 and is roughly 2.5 miles north-northeast of the Interstate 55 and Highway 67 intersection. The site consists of at least three city blocks on the northeast side of Festus and is located in a mixed residential and commercial area. Approximate coordinates for the site are 38° 13' 52" north latitude and 90° 23' 24" west longitude. Elevation at the site ranges from approximately 440 to 660 feet above mean sea level (USGS, 1982).

The Shapiro Brothers Salvage site lies on the northeastern edge of the Salem Plateau of the Ozark Plateau sub-province of the Interior Highlands physiographic province in Missouri. This area is characterized by rolling uplands with dissected valleys (Fenneman, 1938).

GROUNDWATER PATHWAY

Ordovician- and Cambrian-age dolomite and sandstone beneath the site constitute the Ozark Aquifer (Imes and Smith, 1990). This aquifer provides water for all of the 357 recorded non-monitoring wells and produces up to 1,500 gallons per minute within 4 miles of the site. The

local wells do not draw water from greater than 1,375 feet in depth. Cambrian-age dolomite and shale form the St. Francois Confining Unit beneath the Ozark Aquifer.

The DGLS databases contain records of sixteen municipal, nine community public, eighteen non-community public, eleven industrial, one irrigation, and 302 domestic wells within a 4-mile radius of the Shapiro Brothers Salvage site. The nearest known domestic well lies within 100 feet west of the site. The nearest public well lies approximately 0.9 mile southwest of the site. Figure 1 illustrates the approximate locations of the 357 known non-monitoring wells within a 4-mile radius of the site. Table 1 lists specific technical attributes (total and casing depth, static water level, date drilled, yield, etc.) of the non-monitoring wells found within 4 miles of the site.

Prior to 1987, registry of private wells was not required. Therefore, existing older wells may not be included in the database. Also, proper well registration may not have been submitted for some wells. Because of these exceptions, the databases may not accurately depict water well usage in this area. While, public water supply districts cover a large portion of the well survey area, many rural residents still use private wells.

Stratigraphic unit descriptions are based on logged wells located within a 2-mile radius of the site. Table 2 lists the geohydrologic properties (thickness, lithology, nature of porosity and permeability, hydraulic conductivity, and hydrologic unit) of the strata beneath the site.

Soil, Residuum, and Pennsylvanian-age Sandstone

Soil and Residuum: The soil under the Shapiro Brothers Salvage site is the Menfro silt loam. The soil is composed of roughly 18 to 30 percent clay (Skaer, 2004). The unconsolidated sediments range in thickness from 50 to 65 feet near the site (Logmain, 2012).

Hydrology

Menfro silt loam is acidic to neutral (pH 5.1 to 7.3) and hydraulic conductivity is roughly 1.4 x 10^{-3} to 4 x 10^{-4} centimeters per second (cm/sec) (Skaer, 2004). Overburden groundwater flow direction is most likely toward the southeast, which is the topographic down slope direction.

Ozark Aquifer

Stratigraphy

Ordovician-Age Dolomite: The Ordovician-age rocks beneath the site are divided into the St. Peter Sandstone, Powell Dolomite, Jefferson City/Cotter Dolomite, Roubidoux Formation, and Gasconade Dolomite formations. These formations consist dominantly of sandstone, dolomite, and cherty dolomite (Thompson, 1995). The Ordovician-age rocks beneath the site range from 900 feet to 920 feet thick.

Cambrian-Age Formations: The Cambrian-age Eminence and Potosi Dolomites consist of medium- to coarsely crystalline dolomite with mostly nodular chert (Thompson, 1995). Porosity is mostly vug and intercrystalline types (Woody et al, 1996). The Cambrian-age rocks beneath the site range from 430 to 450 feet thick.

Hydrology

The hydraulic conductivity of the Ozark Aquifer ranges from 1×10^{-4} to 1×10^{-5} cm/sec (Davis, 1969; Imes, 1990). Of the wells of record within the 4-mile target area, all 357 are reportedly completed in the Ozark Aquifer.

There is no site specific groundwater flow data for the Ozark Aquifer. However, the groundwater flow direction within this aquifer is likely influenced locally by pumping wells.

St. Francois Confining Unit

Stratigraphy

Cambrian-Age Formations: None of the reported wells in the 4-mile target area penetrate the Cambrian-age Derby-Doerun Dolomite and Davis Formation of the St. Francois Confining Unit. This sequence of alternating shale and argillaceous dolomite is locally greater than 50 feet thick, however, none of the local wells extend to such a depth (Logmain, 2012; WIMS, 2012).

Hydrology

The St. Francois Confining Unit is an effective barrier to downward groundwater movement (Imes, 1990). The Davis Formation may have a hydraulic conductivity as low as 1×10^{-8} cm/sec (Imes and Emmett, 1994).

KARST FEATURES

Nine known sinkholes exist between 1.5 to 4 miles north of the site. However, these sinkholes exist within a different stratigraphic unit than that found below the site. Therefore, the site does not appear to lie within a karst setting. This is supported by the presence of a classified gaining stream just east of the site.

STRUCTURAL FEATURES

Figure 2 illustrates seventeen fault and fold traces found within 4 miles of the site. The degree to which these structural features influence groundwater flow direction is not known at this time. However, the eastward dipping strata coupled with the close proximity of the Mississippi River

have the most significant effect on bedrock groundwater flow direction outside of municipal well pumping.

SURFACE WATER PATHWAY

Potential Point of Entry (PPE)

The stream on the east side of the site is a classified gaining stream. Therefore, the stream on the southeast side of the site is the potential point of entry (PPE). Surface water leaving the site flows south along an unnamed tributary of Plattin Creek for approximately 1.8 miles before reaching Plattin Creek. From this point, Plattin Creek flows roughly 1.8 miles east before entering the Mississippi river. After entering the Mississippi River, surface water flows south for approximately 12.4 miles before reaching the 15-mile downstream limit. The 15-mile downstream limit for this site lies at the Mississippi River Mile Marker 137.

Miscellaneous Surface Water Characteristics

There are no known surface drinking water intakes within 15 miles downstream of the site. Surface water drainage area up gradient of the site is approximately 100 acres. The 2-year, 24-hour rainfall is approximately 3.55 inches (Weather Bureau, 1961).

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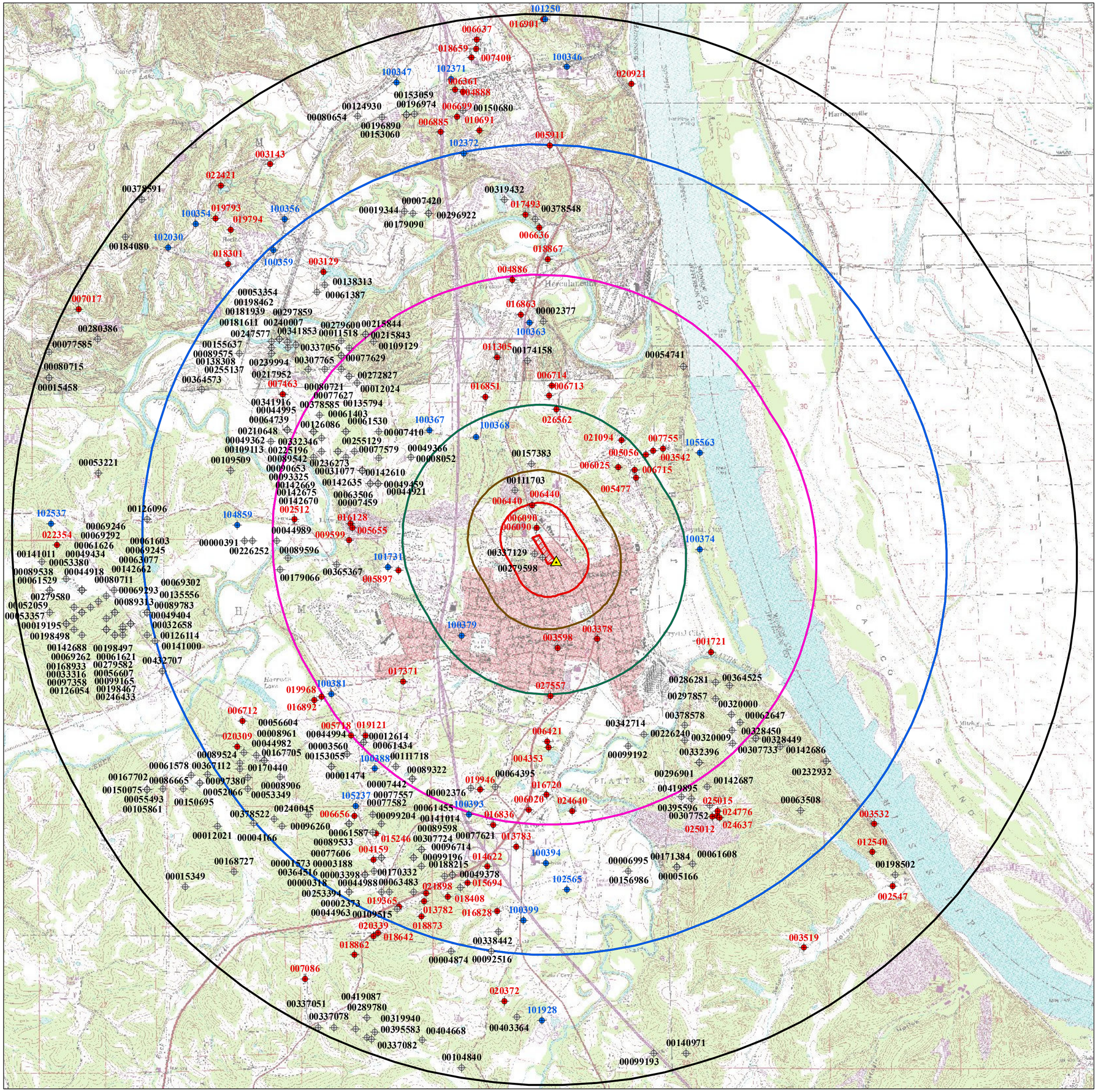
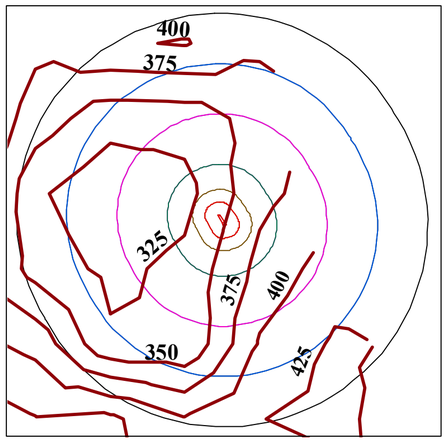
Figure 1:
Four-Mile Well Survey
Shapiro Brothers Salvage Site
Jefferson County, Missouri
March 13, 2012





Regional groundwater elevation within 4 miles of the site.

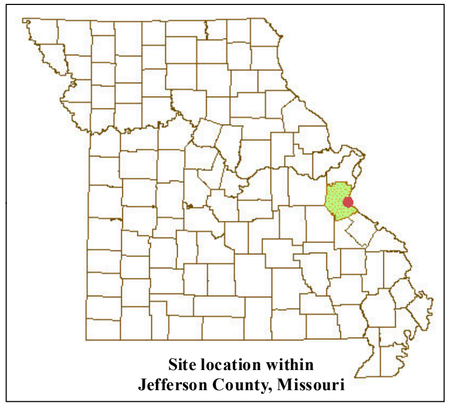
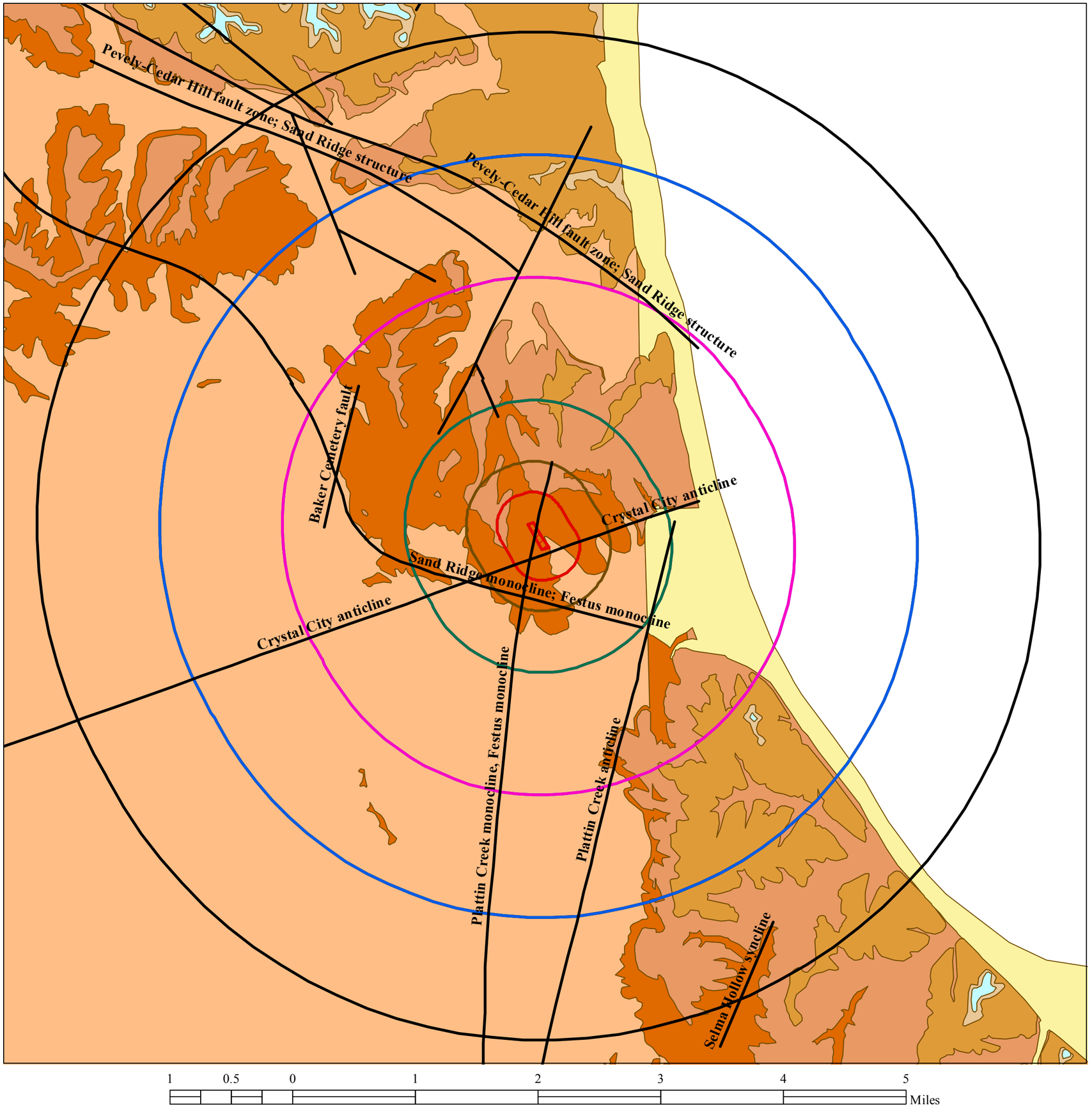


Figure 2:
Geology and Structures within 4 Miles of the Shapiro Brothers Salvage Site



Target Limits
- 0.25 Mile
- 0.5 Mile
- 1 Mile
- 2 Mile
- 3 Mile
- 4 Mile

N
W E
S

- Quaternary-age alluvium
- Mississippian-age limestone
- Ordovician-age, Maquoketa Group
- Ordovician-age, Decorah & Plattin Groups
- Ordovician-age, Joachim
- Ordovician-age, St. Peter Sandstone
- Ordovician-age, Cotter & Jefferson City Dolomites
- Structural trace (fault or fold)

Site location within Jefferson County, Missouri

Table 1: Well Data for Shapiro Brothers Salvage Site

Non-monitoring wells located within 4 miles of the Shapiro Brothers site.

0 to 0.25 Mile

Source	Well ID	Depth	Casing	Elev.	SWL	Date	Use	Owner	Aquifer	Yield
WIMS	279598	255	80	500	116	2002	Domestic	--	Ozark	15
WIMS	337129	1180	425	--	160	1992	Noncommunity Public	--	Ozark	1500
Logmain	6090	110	63	470	30	1940	Domestic	Weinhaus	Ozark	--
Logmain	6440	105	55	506	55	1940	Domestic	Horn	Ozark	--

Wells found within 0 to 0.25 mile of the site: 4

0.25 to 0.5 Mile

Source	Well ID	Depth	Casing	Elev.	SWL	Date	Use	Owner	Aquifer	Yield
WIMS	111703	--	--	--	--	1994	Domestic	--	Ozark	--

Wells found within 0.25 to 0.5 mile of the site: 1

0.5 to 1 Mile

Source	Well ID	Depth	Casing	Elev.	SWL	Date	Use	Owner	Aquifer	Yield
PDWP	100368	772	250	--	295	1976	City	Herculaneum	Ozark	140
PDWP	100379	865	272	--	30	1945	City	Festus	Ozark	260
WIMS	157383	715	80	--	260	1996	Domestic	--	Ozark	75
Logmain	3378	650	550	405	12	1935	Industrial	Liberty Ice & Cream Co	Ozark	--
Logmain	5477	275	30	554	--	1939	Domestic	Holdinghauser	Ozark	--
Logmain	6025	250	20	586	161	1940	Domestic	Kister	Ozark	--
Logmain	6715	200	15	565	--	1940	Domestic	Montgomery	Ozark	--
Logmain	21094	295	20	610	--	1962	Domestic	Roussin	Ozark	--
Logmain	26562	400	30	598	180	1970	Domestic	Yeida	Ozark	--

Wells found within 0.5 to 1 mile of the site: 9

1 to 2 Miles

Source	Well ID	Depth	Casing	Elev.	SWL	Date	Use	Owner	Aquifer	Yield
PDWP	100363	--	--	--	--	--	Mobile Home Park	Lacal Trailer Court	Ozark	--
PDWP	100367	750	--	250	242	1981	City	Herculaneum	Ozark	150
PDWP	100374	90	--	90	34	1958	City	Crystal City	Ozark	560
PDWP	100381	1200	--	450	230	1971	City	Festus	Ozark	300
PDWP	101731	900	--	350	--	1977	City	Festus	Ozark	260
PDWP	105563	--	--	--	--	--	Water District	Jeff. Co. Water Authority	Ozark	--
WIMS	2376	450	104	--	245	1987	Domestic	--	Ozark	30
WIMS	2377	188	134	--	75	1987	Domestic	--	Ozark	18
WIMS	3560	486	85	--	--	1987	Domestic	--	Ozark	30
WIMS	7410	380	82	--	180	1988	Domestic	--	Ozark	15
WIMS	7442	454	82	--	254	1988	Domestic	--	Ozark	20

Non-monitoring wells located within 4 miles of the Shapiro Brothers site.

Source	Well ID	Depth	Casing	Elev.	SWL	Date	Use	Owner	Aquifer	Yield
WIMS	7459	454	82	--	253	1988	Domestic	--	Ozark	15
WIMS	8052	416	80	--	180	1988	Domestic	--	Ozark	20
WIMS	12024	291	82	--	95	1989	Domestic	--	Ozark	15
WIMS	12614	353	81	--	110	1989	Domestic	--	Ozark	12
WIMS	31077	305	80	--	230	1989	Domestic	--	Ozark	34
WIMS	44921	413	82	--	225	1989	Domestic	--	Ozark	10
WIMS	44989	--	33	--	--	1990	Domestic	--	Ozark	--
WIMS	44995	402	82	--	125	1990	Domestic	--	Ozark	15
WIMS	49362	300	82	--	100	1990	Domestic	--	Ozark	30
WIMS	49366	525	82	--	260	1990	Domestic	--	Ozark	20
WIMS	49459	390	82	--	180	1990	Domestic	--	Ozark	15
WIMS	54741	378	100	--	200	1991	Domestic	--	Ozark	15
WIMS	61403	452	82	--	243	1991	Domestic	--	Ozark	12
WIMS	61530	268	85	--	70	1991	Domestic	--	Ozark	15
WIMS	62647	325	80	--	210	1991	Domestic	--	Ozark	27
WIMS	63506	398	82	--	220	1992	Domestic	--	Ozark	20
WIMS	64395	500	85	400	--	1991	Domestic	--	Ozark	70
WIMS	77579	394	123	--	169	1992	Domestic	--	Ozark	25
WIMS	77627	371	82	--	142	1992	Domestic	--	Ozark	40
WIMS	77629	350	82	--	181	1993	Domestic	--	Ozark	25
WIMS	80721	250	80	--	32	1992	Domestic	--	Ozark	25
WIMS	89322	555	105	--	300	1993	Domestic	--	Ozark	50
WIMS	89542	380	80	--	140	1993	Domestic	--	Ozark	20
WIMS	89596	290	80	--	139	1993	Domestic	--	Ozark	12
WIMS	90653	272	81	--	90	1993	Domestic	--	Ozark	30
WIMS	93325	345	80	--	190	1993	Domestic	--	Ozark	22
WIMS	99192	240	80	390	134	1994	Domestic	--	Ozark	20
WIMS	109129	375	80	--	75	1994	Domestic	--	Ozark	15
WIMS	111718	577	--	--	--	1995	Domestic	--	Ozark	--
WIMS	126086	414	82	--	140	1994	Domestic	--	Ozark	50
WIMS	135794	400	80	460	112	1995	Domestic	--	Ozark	25
WIMS	142610	340	80	--	74	1995	Domestic	--	Ozark	30
WIMS	142635	355	80	--	61	1996	Domestic	--	Ozark	20
WIMS	142669	590	80	--	125	1996	Domestic	--	Ozark	15
WIMS	142670	410	80	--	111	1997	Domestic	--	Ozark	20
WIMS	142675	570	80	--	280	1996	Domestic	--	Ozark	25
WIMS	174158	--	4	--	--	1996	Domestic	--	Ozark	--
WIMS	179066	310	80	530	165	1997	Domestic	--	Ozark	12
WIMS	225196	385	80	--	228	1999	Domestic	--	Ozark	20
WIMS	226240	332	80	--	118	1999	Domestic	--	Ozark	30
WIMS	236273	512	80	500	213	2000	Domestic	--	Ozark	40
WIMS	255129	395	80	--	160	2001	Domestic	--	Ozark	20
WIMS	272827	345	80	450	115	2001	Domestic	--	Ozark	40
WIMS	286281	610	80	520	186	2001	Domestic	--	Ozark	40

Non-monitoring wells located within 4 miles of the Shapiro Brothers site.

Source	Well ID	Depth	Casing	Elev.	SWL	Date	Use	Owner	Aquifer	Yield
WIMS	296901	245	140	500	106	2002	Domestic	--	Ozark	40
WIMS	297857	446	80	500	190	2003	Domestic	--	Ozark	30
WIMS	307733	500	80	--	300	2003	Domestic	--	Ozark	20
WIMS	320000	488	80	620	262	2003	Domestic	--	Ozark	60
WIMS	320009	529	80	620	262	2004	Domestic	--	Ozark	45
WIMS	332346	385	80	500	124	2004	Domestic	--	Ozark	60
WIMS	332396	365	80	560	187	2004	Domestic	--	Ozark	35
WIMS	342714	657	231	400	--	2005	Domestic	--	Ozark	35
WIMS	364525	447	80	--	192	2005	Domestic	--	Ozark	30
WIMS	365367	540	80	--	100	2005	Domestic	--	Ozark	80
WIMS	378578	385	80	--	140	2006	Domestic	--	Ozark	45
WIMS	378585	345	80	--	194	2006	Domestic	--	Ozark	30
Logmain	1721	296	110	396	--	1884	Industrial	Crystal City Plate Glass	Ozark	--
Logmain	2512	165	70	434	34	1931	Domestic	Peterien	Ozark	--
Logmain	3542	750	30	598	--	1936	Noncommunity Public	St. Joseph Convent	Ozark	--
Logmain	4353	635	185	438	50	1937	Domestic	Willers	Ozark	--
Logmain	4886	204	95	442	65	1938	Noncommunity Public	Joachim Golf Club	Ozark	--
Logmain	5056	240	5	582	180	1938	Domestic	Miller	Ozark	--
Logmain	5655	165	70	518	80	1939	Noncommunity Public	Bailey School	Ozark	--
Logmain	5897	86	25	523	36	1939	Domestic	Knobloch	Ozark	--
Logmain	6020	100	45	420	13	1940	Domestic	Roussin	Ozark	--
Logmain	6421	145	30	445	--	1940	Domestic	Elks	Ozark	--
Logmain	6713	193	--	565	165	1941	Domestic	Byington	Ozark	--
Logmain	6714	190	15	565	165	1940	Domestic	Crannick	Ozark	--
Logmain	7755	733	30	608	209	1942	Noncommunity Public	Ursuline Novitiate	Ozark	--
Logmain	9599	940	195	584	--	1947	Industrial	Aubuchon Sand & Mining Co	Ozark	--
Logmain	11305	180	15	510	80	1950	Domestic	Sparling	Ozark	--
Logmain	16128	935	185	597	170	1957	Industrial	Aubuchom Silica Mining Co	Ozark	--
Logmain	16720	675	75	413	80	1955	Industrial	Maclay Concrete Inc	Ozark	--
Logmain	16851	205	10	565	128	1957	Domestic	Fortney	Ozark	--
Logmain	16863	184	115	447	95	1957	Domestic	McMullen	Ozark	--
Logmain	17371	250	3	501	155	1957	Domestic	Johnston	Ozark	--
Logmain	19121	340	10	549	--	1960	Domestic	Akins	Ozark	--
Logmain	19946	505	5	517	400	1961	Domestic	Yglesia	Ozark	--
Logmain	24640	205	80	422	50	1966	Noncommunity Public	VFW Post 3777	Ozark	--

Wells found within 1 to 2 miles of the site: 90

2 to 3 Miles

Source	Well ID	Depth	Casing	Elev.	SWL	Date	Use	Owner	Aquifer	Yield
PDWP	100359	915	300	443	190	1967	Water District	Jefferson Co. PWSD #7	Ozark	155
PDWP	100388	985	425	--	--	1966	City	Festus	Ozark	70
PDWP	100393	1250	430	--	--	1982	City	Festus	Ozark	300
PDWP	100394	750	175	--	24	1955	City	Crystal City	Ozark	125

Non-monitoring wells located within 4 miles of the Shapiro Brothers site.

Source	Well ID	Depth	Casing	Elev.	SWL	Date	Use	Owner	Aquifer	Yield
PDWP	100399	668	350	--	112	1990	Mobile Home Park	Manderly MHP	Ozark	80
PDWP	102372	1000	265	550	210	1964	City	Pevely	Ozark	100
PDWP	102565	555	425	--	--	1996	City	Crystal City	Ozark	--
PDWP	104859	1375	84	--	--	2002	City	Festus	Ozark	800
PDWP	105237	590	84	--	300	1994	Church	Radiant Life Church	Ozark	25
WIMS	318	490	--	--	267	1987	Domestic	--	Ozark	15
WIMS	391	365	82	--	205	1987	Domestic	--	Ozark	12
WIMS	1474	332	85	--	180	1987	Domestic	--	Ozark	12
WIMS	1573	552	105	600	352	1987	Domestic	--	Ozark	19
WIMS	2373	451	82	--	230	1987	Domestic	--	Ozark	17
WIMS	3188	551	82	--	320	1987	Domestic	--	Ozark	15
WIMS	3398	463	80	--	231	1987	Domestic	--	Ozark	20
WIMS	4166	531	--	--	280	1988	Domestic	--	Ozark	45
WIMS	5166	128	84	--	60	1988	Domestic	--	Ozark	60
WIMS	6995	617	91	--	68	1988	Domestic	--	Ozark	60
WIMS	7420	352	102	--	75	1988	Domestic	--	Ozark	30
WIMS	8906	373	82	--	172	1988	Domestic	--	Ozark	30
WIMS	8961	107	80	--	40	1988	Domestic	--	Ozark	15
WIMS	11518	312	82	--	116	1989	Domestic	--	Ozark	20
WIMS	19344	311	105	410	73	1996	Domestic	--	Ozark	25
WIMS	44963	432	82	--	240	1989	Domestic	--	Ozark	30
WIMS	44982	--	--	--	--	1989	Domestic	--	Ozark	--
WIMS	44988	477	82	--	320	1990	Domestic	--	Ozark	10
WIMS	44994	520	--	--	301	1990	Domestic	--	Ozark	18
WIMS	49378	668	31	440	112	1990	Noncommunity Public	--	Ozark	300
WIMS	53349	515	80	--	210	1990	Domestic	--	Ozark	20
WIMS	53354	293	80	--	140	1992	Noncommunity Public	--	Ozark	20
WIMS	56604	210	80	--	90	1991	Domestic	--	Ozark	20
WIMS	61387	310	105	--	44	1991	Domestic	--	Ozark	60
WIMS	61434	--	3	--	--	1991	Domestic	--	Ozark	--
WIMS	61455	475	82	--	284	1991	Domestic	--	Ozark	45
WIMS	61587	533	80	--	295	1992	Domestic	--	Ozark	60
WIMS	61608	496	82	--	248	1992	Domestic	--	Ozark	30
WIMS	63483	435	80	--	240	1991	Domestic	--	Ozark	30
WIMS	63508	251	80	670	100	1992	Domestic	--	Ozark	15
WIMS	64739	385	80	475	93	1992	Domestic	--	Ozark	17
WIMS	77557	535	82	--	321	1992	Domestic	--	Ozark	20
WIMS	77582	516	80	--	321	1992	Domestic	--	Ozark	--
WIMS	77606	553	--	--	365	1992	Domestic	--	Ozark	30
WIMS	77621	474	82	--	280	1992	Domestic	--	Ozark	25
WIMS	89524	385	80	545	106	1994	Domestic	--	Ozark	12
WIMS	89533	470	80	580	300	1993	Domestic	--	Ozark	15
WIMS	89575	125	84	--	41	1993	Domestic	--	Ozark	50
WIMS	89598	455	82	--	285	1993	Domestic	--	Ozark	18

Non-monitoring wells located within 4 miles of the Shapiro Brothers site.

Source	Well ID	Depth	Casing	Elev.	SWL	Date	Use	Owner	Aquifer	Yield
WIMS	96260	556	82	--	339	1993	Domestic	--	Ozark	60
WIMS	96714	457	80	530	220	1994	Domestic	--	Ozark	30
WIMS	99196	420	80	570	280	1994	Domestic	--	Ozark	15
WIMS	99204	590	84	--	300	1994	Domestic	--	Ozark	25
WIMS	109113	332	82	460	90	1994	Domestic	--	Ozark	60
WIMS	109509	265	80	--	180	1994	Domestic	--	Ozark	33
WIMS	109515	405	80	--	290	1994	Domestic	--	Ozark	33
WIMS	126096	895	412	--	233	1994	Noncommunity Public	--	Ozark	600
WIMS	138308	306	80	--	65	1995	Domestic	--	Ozark	25
WIMS	138313	286	80	410	30	1995	Domestic	--	Ozark	45
WIMS	141014	429	80	--	190	1995	Domestic	--	Ozark	18
WIMS	142686	260	80	740	139	1995	Domestic	--	Ozark	20
WIMS	142687	350	80	--	193	1995	Domestic	--	Ozark	20
WIMS	153055	--	3	--	--	1996	Domestic	--	Ozark	--
WIMS	155637	210	100	430	96	1996	Domestic	--	Ozark	45
WIMS	156986	840	425	--	83	1996	Noncommunity Public	--	Ozark	700
WIMS	167705	345	80	520	240	1997	Domestic	--	Ozark	25
WIMS	170332	518	80	--	120	1998	Domestic	--	Ozark	30
WIMS	170440	410	80	--	190	1997	Domestic	--	Ozark	10
WIMS	171384	120	80	--	60	1997	Domestic	--	Ozark	35
WIMS	179090	335	147	410	65	1997	Domestic	--	Ozark	20
WIMS	181611	330	126	--	140	1997	Domestic	--	Ozark	25
WIMS	181939	271	105	--	53	1997	Domestic	--	Ozark	20
WIMS	188215	--	3	--	--	1998	Domestic	--	Ozark	--
WIMS	198462	380	100	--	54	1998	Domestic	--	Ozark	20
WIMS	210648	250	80	460	58	1998	Domestic	--	Ozark	45
WIMS	215843	227	85	--	70	1999	Domestic	--	Ozark	30
WIMS	215844	208	168	--	125	1999	Domestic	--	Ozark	20
WIMS	217952	340	80	450	200	1999	Domestic	--	Ozark	30
WIMS	226252	310	80	--	152	1999	Domestic	--	Ozark	12
WIMS	232932	305	80	--	160	1999	Domestic	--	Ozark	40
WIMS	239994	272	105	430	120	2000	Domestic	--	Ozark	30
WIMS	240007	272	105	430	120	2000	Domestic	--	Ozark	30
WIMS	240045	477	80	480	180	2000	Domestic	--	Ozark	30
WIMS	247577	--	--	--	--	2002	Domestic	--	Ozark	--
WIMS	253394	505	80	--	300	2000	Domestic	--	Ozark	35
WIMS	255137	395	106	440	58	2001	Domestic	--	Ozark	20
WIMS	279600	315	106	410	65	2002	Domestic	--	Ozark	20
WIMS	296922	365	105	--	89	2003	Domestic	--	Ozark	40
WIMS	297859	365	80	440	105	2003	Domestic	--	Ozark	40
WIMS	307724	435	80	520	174	2004	Domestic	--	Ozark	30
WIMS	307752	520	80	--	300	2003	Domestic	--	Ozark	20
WIMS	307765	395	80	430	68	2003	Domestic	--	Ozark	30
WIMS	319432	265	116	--	--	2003	Domestic	--	Ozark	15

Non-monitoring wells located within 4 miles of the Shapiro Brothers site.

Source	Well ID	Depth	Casing	Elev.	SWL	Date	Use	Owner	Aquifer	Yield
WIMS	328449	79	58	--	39	2003	Noncommunity Public	--	Ozark	500
WIMS	328450	77	57	--	39	2003	Noncommunity Public	--	Ozark	500
WIMS	337056	415	80	440	61	2004	Domestic	--	Ozark	30
WIMS	338442	545	80	460	68	2005	Domestic	--	Ozark	40
WIMS	341853	427	105	430	67	2004	Domestic	--	Ozark	30
WIMS	341916	365	80	440	91	2005	Domestic	--	Ozark	60
WIMS	364516	305	100	--	125	2005	Domestic	--	Ozark	40
WIMS	364573	325	80	--	65	2006	Domestic	--	Ozark	60
WIMS	367112	455	80	--	18	2006	Domestic	--	Ozark	129
WIMS	378548	245	100	--	60	2006	Domestic	--	Ozark	45
WIMS	395596	480	120	--	--	2007	Domestic	--	Ozark	25
WIMS	419895	427	80	--	269	2008	Domestic	--	Ozark	20
WIMS	424208	1200	485	643	200	2008	Irrigation	--	Ozark	1000
Logmain	3129	875	35	410	--	1934	Noncommunity Public	Liberty Country Club	Ozark	--
Logmain	4159	314	10	618	100	1937	Domestic	Dieterich	Ozark	--
Logmain	5718	175	25	564	75	1939	Domestic	Crawford	Ozark	--
Logmain	5911	396	223	552	200	1940	Noncommunity Public	Portell, J.F - Tavern	Ozark	--
Logmain	6636	187	85	398	29	1940	Noncommunity Public	Miller's Resort	Ozark	--
Logmain	6656	163	8	623	--	1940	Domestic	Schwent	Ozark	--
Logmain	6712	130	15	505	90	1941	Domestic	Harrison	Ozark	--
Logmain	7463	67	30	420	--	1941	Domestic	Bollinger	Ozark	--
Logmain	13782	160	5	460	58	1955	Domestic	Boyd	Ozark	--
Logmain	13783	70	25	450	15	1955	Domestic	Meyer	Ozark	--
Logmain	14622	405	5	551	--	1956	Domestic	Blum	Ozark	--
Logmain	15246	350	10	591	171	1956	Domestic	Klaus	Ozark	--
Logmain	15694	280	25	552	100	1956	Domestic	Flecke	Ozark	--
Logmain	16828	450	5	543	250	1957	Domestic	Peterin	Ozark	--
Logmain	16836	160	5	503	--	1957	Domestic	Swyers	Ozark	--
Logmain	16892	349	5	572	173	1957	Domestic	Hubbard	Ozark	--
Logmain	17493	224	30	403	42	1958	Domestic	King	Ozark	--
Logmain	18408	365	15	506	85	1958	Domestic	Blum	Ozark	--
Logmain	18867	80	15	400	25	1959	Domestic	Kauffmann	Ozark	--
Logmain	18873	440	10	615	175	1959	Domestic	Turley	Ozark	--
Logmain	19365	359	10	630	235	1960	Domestic	Kist	Ozark	--
Logmain	19968	317	--	549	150	1961	Domestic	McClanahan	Ozark	--
Logmain	20309	355	225	495	150	1961	Domestic	Price	Ozark	--
Logmain	21898	350	10	615	180	1962	Domestic	Skaggs	Ozark	--
Logmain	24637	450	65	--	8	1966	Industrial	Weber, Fred	Ozark	--
Logmain	24776	405	--	722	--	1967	Industrial	Vigus Quarries	Ozark	--
Logmain	25012	390	--	700	--	1966	Industrial	Vigus Quarries	Ozark	--
Logmain	25015	400	--	720	--	1966	Industrial	Vigus Quarries	Ozark	--

Wells found within 2 to 3 miles of the site: 133

3 to 4 Miles

Source	Well ID	Depth	Casing	Elev.	SWL	Date	Use	Owner	Aquifer	Yield
PDWP	100346	390	124	460	48	1956	Industrial	Dow Chemical Company	Ozark	140
PDWP	100347	890	305	--	65	1978	City	Pevely	Ozark	175
PDWP	100354	1045	500	--	175	1987	City	Pevely	Ozark	1000
PDWP	100356	920	305	455	180	1967	Water District	Jefferson Co. PWSD #7	Ozark	145
PDWP	101250	500	250	--	320	1962	Campground	Teamsters Health & Med.	Ozark	25
PDWP	101928	435	250	--	--	--	Mobile Home Park	Lakeside Manor	Ozark	--
PDWP	102030	1225	525	--	161	1990	City	Pevely	Ozark	800
PDWP	102371	900	307	430	--	1972	City	Pevely	Ozark	180
PDWP	102537	--	--	550	--	--	Subdivision	Jefferson Co. PWSD #7	Ozark	--
WIMS	4874	120	--	--	--	1988	Domestic	--	Ozark	--
WIMS	12021	199	80	--	--	1989	Domestic	--	Ozark	--
WIMS	15349	333	82	--	160	1989	Domestic	--	Ozark	20
WIMS	15458	294	80	--	130	1989	Domestic	--	Ozark	30
WIMS	19195	312	80	--	238	1996	Domestic	--	Ozark	30
WIMS	32658	471	82	--	227	1989	Domestic	--	Ozark	10
WIMS	33316	332	80	--	--	1990	Domestic	--	Ozark	20
WIMS	44918	329	82	--	152	1989	Domestic	--	Ozark	20
WIMS	49404	361	102	--	204	1990	Domestic	--	Ozark	25
WIMS	49434	350	105	--	160	1990	Domestic	--	Ozark	30
WIMS	52059	347	85	--	--	1988	Domestic	--	Ozark	25
WIMS	52066	568	86	--	280	1990	Domestic	--	Ozark	50
WIMS	53221	315	80	--	--	1992	Domestic	--	Ozark	25
WIMS	53357	400	81	--	--	1992	Domestic	--	Ozark	16
WIMS	53380	456	81	--	120	1993	Domestic	--	Ozark	18
WIMS	55493	440	350	--	90	1990	Domestic	--	Ozark	75
WIMS	56607	272	80	--	--	1991	Domestic	--	Ozark	30
WIMS	61529	473	82	--	167	1991	Domestic	--	Ozark	30
WIMS	61578	352	145	460	113	1992	Domestic	--	Ozark	15
WIMS	61603	353	82	460	194	1992	Domestic	--	Ozark	25
WIMS	61621	330	82	--	186	1992	Domestic	--	Ozark	25
WIMS	61626	473	82	--	105	1992	Domestic	--	Ozark	30
WIMS	63077	185	80	--	70	1991	Domestic	--	Ozark	19
WIMS	69245	305	82	--	180	1992	Domestic	--	Ozark	27
WIMS	69246	285	84	--	120	1992	Domestic	--	Ozark	19
WIMS	69262	285	84	--	160	1993	Domestic	--	Ozark	22
WIMS	69292	245	80	--	105	1992	Domestic	--	Ozark	18
WIMS	69293	425	90	440	280	1992	Domestic	--	Ozark	22
WIMS	69302	405	80	--	260	1992	Domestic	--	Ozark	18
WIMS	77585	332	82	--	172	1992	Domestic	--	Ozark	20
WIMS	80654	180	80	--	103	1993	Domestic	--	Ozark	15
WIMS	80711	385	80	--	155	1992	Domestic	--	Ozark	15
WIMS	80715	200	80	--	56	1992	Domestic	--	Ozark	25
WIMS	86665	335	80	--	140	1995	Domestic	--	Ozark	12

Non-monitoring wells located within 4 miles of the Shapiro Brothers site.

Source	Well ID	Depth	Casing	Elev.	SWL	Date	Use	Owner	Aquifer	Yield
WIMS	89313	385	81	--	127	1993	Domestic	--	Ozark	13
WIMS	89538	360	80	--	156	1994	Domestic	--	Ozark	20
WIMS	89783	311	82	--	114	1993	Domestic	--	Ozark	40
WIMS	92516	292	84	--	40	1994	Domestic	--	Ozark	126
WIMS	97358	330	84	520	146	1994	Domestic	--	Ozark	25
WIMS	97380	291	82	540	153	1994	Domestic	--	Ozark	30
WIMS	99165	300	80	--	110	1994	Domestic	--	Ozark	15
WIMS	99193	320	84	430	10	1994	Domestic	--	Ozark	60
WIMS	104840	--	2	--	--	1994	Domestic	--	Ozark	--
WIMS	105861	--	3	--	--	1994	Domestic	--	Ozark	--
WIMS	124930	--	4	--	--	1995	Domestic	--	Ozark	--
WIMS	126054	495	82	--	135	1994	Domestic	--	Ozark	45
WIMS	126114	332	82	--	127	1995	Domestic	--	Ozark	40
WIMS	135556	465	80	--	310	1994	Domestic	--	Ozark	22
WIMS	140971	148	80	420	22	1995	Domestic	--	Ozark	30
WIMS	141000	535	82	--	178	1995	Domestic	--	Ozark	30
WIMS	141011	307	80	500	117	1995	Domestic	--	Ozark	25
WIMS	142662	380	80	--	142	1997	Domestic	--	Ozark	25
WIMS	142688	320	80	--	141	1995	Domestic	--	Ozark	20
WIMS	150075	313	84	--	150	1995	Domestic	--	Ozark	12
WIMS	150680	305	165	575	--	1995	Domestic	--	Ozark	20
WIMS	150695	556	82	--	276	1996	Domestic	--	Ozark	75
WIMS	153059	--	4	--	--	1996	Domestic	--	Ozark	--
WIMS	153060	--	4	--	--	1996	Domestic	--	Ozark	--
WIMS	167702	325	80	--	180	1997	Domestic	--	Ozark	33
WIMS	168727	433	80	--	236	1997	Domestic	--	Ozark	15
WIMS	168933	511	80	--	205	1996	Domestic	--	Ozark	50
WIMS	184080	--	3	--	--	1997	Domestic	--	Ozark	--
WIMS	196890	676	80	--	--	1998	Domestic	--	Ozark	55
WIMS	196974	272	105	470	105	1998	Domestic	--	Ozark	10
WIMS	198467	440	80	460	109	1998	Domestic	--	Ozark	30
WIMS	198497	540	80	540	161	1999	Domestic	--	Ozark	25
WIMS	198498	455	100	520	139	1999	Domestic	--	Ozark	20
WIMS	198502	230	84	450	56	1999	Domestic	--	Ozark	60
WIMS	246433	260	--	--	122	2006	Domestic	--	Ozark	--
WIMS	279580	315	80	500	146	2001	Domestic	--	Ozark	20
WIMS	279582	500	80	540	151	2001	Domestic	--	Ozark	25
WIMS	280386	345	80	--	100	2001	Domestic	--	Ozark	30
WIMS	289780	450	80	480	160	2002	Domestic	--	Ozark	50
WIMS	319940	285	80	460	87	2003	Domestic	--	Ozark	45
WIMS	337051	435	80	600	157	2004	Domestic	--	Ozark	30
WIMS	337078	395	80	560	122	2004	Domestic	--	Ozark	20
WIMS	337082	325	80	--	38	2004	Domestic	--	Ozark	30
WIMS	378522	427	80	--	140	2006	Domestic	--	Ozark	60

Non-monitoring wells located within 4 miles of the Shapiro Brothers site.

Source	Well ID	Depth	Casing	Elev.	SWL	Date	Use	Owner	Aquifer	Yield
WIMS	378591	305	140	--	168	2007	Domestic	--	Ozark	30
WIMS	395583	355	80	--	91	2007	Domestic	--	Ozark	50
WIMS	403364	530	80	--	135	2008	Domestic	--	Ozark	60
WIMS	404668	325	80	--	38	2007	Domestic	--	Ozark	60
WIMS	419087	440	80	633	240	2008	Domestic	--	Ozark	25
WIMS	432707	285	80	--	104	2009	Domestic	--	Ozark	30
Logmain	2547	1302	35	399	--	1932	Domestic	Schock	Ozark	--
Logmain	3143	100	80	457	--	1934	Domestic	Hensley	Ozark	--
Logmain	3519	105	--	432	15	1936	Domestic	Schock	Ozark	--
Logmain	3532	184	40	401	44	1936	Domestic	Schock	Ozark	--
Logmain	4888	243	25	480	105	1938	Domestic	Rapp	Ozark	--
Logmain	6361	245	25	477	75	1940	Domestic	Kohler	Ozark	--
Logmain	6637	131	55	458	14	1940	Domestic	Kerckhoff	Ozark	--
Logmain	6699	250	15	586	--	1940	Domestic	Martin	Ozark	--
Logmain	6885	298	40	521	150	1941	Domestic	Bernard	Ozark	--
Logmain	7017	480	10	443	--	1941	Domestic	Newell	Ozark	--
Logmain	7086	240	10	633	80	1941	Domestic	Grebe	Ozark	--
Logmain	7400	166	85	450	20	1941	Domestic	Coleman	Ozark	--
Logmain	10691	250	15	493	--	1947	Domestic	Schaffer	Ozark	--
Logmain	12540	437	50	570	190	1953	Industrial	Miss. River Fuel Co.	Ozark	--
Logmain	14386	390	125	460	48	1956	Industrial	Dow Chemical Co	Ozark	--
Logmain	16901	461	15	550	188	1958	Noncommunity Public	Teamster Uion Local 688	Ozark	--
Logmain	18301	90	5	446	40	1959	Domestic	Duncan	Ozark	--
Logmain	18642	445	10	633	240	1959	Domestic	Estok	Ozark	--
Logmain	18659	180	115	440	70	1959	Domestic	Revelle	Ozark	--
Logmain	18862	455	--	618	190	1959	Domestic	Hutson	Ozark	--
Logmain	19793	370	25	540	90	1960	Domestic	Taylor	Ozark	--
Logmain	19794	255	40	528	60	1958	Domestic	Wright	Ozark	--
Logmain	20339	445	215	633	220	1960	Domestic	Estak	Ozark	--
Logmain	20372	90	5	505	50	1961	Domestic	Mueller	Ozark	--
Logmain	20921	375	25	519	170	1962	Domestic	Shelley	Ozark	--
Logmain	22354	170	15	557	100	1963	Domestic	Lindever	Ozark	--
Logmain	22421	660	40	480	50	1963	Domestic	Siegel	Ozark	--

Wells found within 3 to 4 miles of the site: 120

Table 2: Aquifer, Stratigraphy, and Hydrology of the Shapiro Brothers Salvage Site

System	Stratigraphic Unit	Thickness (feet)	Lithology	Nature of Porosity and Permeability	Hydraulic Conductivity (cm/sec)	Hydrologic Unit
Post Ordovician	**Soil and Residuum**	50 - 65	Silt and silty clay	Intergranular space throughout matrix; Moderate permeability	1.4×10^{-3} - 4.0×10^{-4}	**None**
Ordovician	**St. Peter Sandstone**	30 - 45	Sandstone	Bedding seperations, fractures, and dissolution features; Moderate permeability	1×10^{-4} - 1×10^{-5}	**Ozark Aquifer**
	Powell Dolomite	80 - 90	Dolomite, cherty dolomite, sandstone, dolomitic sandstone, argillaceous dolomite, and minor shales			
	Jefferson City/Cotter Dolomite	360 - 380				
	Roubidoux Formation	130 - 140				
	Gasconade Dolomite	250 - 260				
Cambrian	**Eminence and Potosi Dolomites**	430 - 450	Medium-crystalline dolomite with sandstone beds			
	Derby-Doe Run Dolomites and Davis Shale	>50	Medium-crystalline dolomite with beds of silt, shale, and sand	Bedding seperations and fractures; Low permeability	1×10^{-8}	**St. Francois Confining Unit**

Data is from Davis, 1969; Imes and Smith, 1990; Imes and Emmett, 1994; and MDNR/DGLS well log records.

DEPARTMENT OF NATURAL RESOURCES
Division of Environmental Quality

TELEPHONE OR CONFERENCE RECORD

FILE: Shapiro Brothers Salvage Site

DATE: September 20, 2012

TELEPHONE:
Incoming ()
Outgoing (X)

CONFERENCE:
Field ()
Office ()

SUBJECT: Public drinking water supply for Festus and Crystal City

PERSONS INVOLVED:	REPRESENTING:
Michael Stroh	MDNR, HWP, Superfund
Stephen Settlemoir	Jefferson County Water Authority (JCWA)

SUMMARY OF CONVERSATION:

Mr. Settlemoir is the operator of the JCWA. He indicated that JCWA supplies water to both Festus and Crystal City from a single groundwater well located adjacent to the Mississippi River. The supply well is 94 feet deep and draws water from the alluvium beneath the river via lateral conduits.

September 20, 2012

Environmental Specialist

Date of Signature

DEPARTMENT OF NATURAL RESOURCES
Division of Environmental Quality

TELEPHONE OR CONFERENCE RECORD

FILE: Shapiro Brothers Salvage Site

DATE: September 20, 2012

TELEPHONE:
Incoming ()
Outgoing (X)

CONFERENCE:
Field ()
Office ()

SUBJECT: Public drinking water supply for Festus and Crystal City

PERSONS INVOLVED:	REPRESENTING:
Michael Stroh	MDNR, HWP, Superfund
Brent Abrams	City of Festus

SUMMARY OF CONVERSATION:

Mr. Abrams is a public works employee for the City of Festus responsible for maintaining the pubic water system. He indicated that the city has been supplementing the water they receive from the Jefferson County Water Authority (JCWA) due to the recent drought conditions. Mr. Abrams stated that Festus is pumping approximately 0.5 to 1 million gallons per day for 1 or 2 days per week from City Well #8 over the past few months and blending it with the water received from JCWA.

September 20, 2012

Environmental Specialist

Date of Signature

NPN ENVIRONMENTAL

December 13, 2011
Contract C-11241.B

VIA E-MAIL

Mr. Greg Shapiro
Shapiro Brothers
A Division of MW Recycling, LLC
Ninth and Delmar
Festus, MO 63028

RE: Waste Stream Determination
Street Sweeping and Tire Cleaning Solids
Festus, MO

Mr. Shapiro:

This letter transmits results of waste stream sampling performed by NPN Environmental on December 1, 2011 to classify the street sweeping and tire cleaning solids waste streams generated at the above-referenced location. Information from this sampling event will be used to determine waste stream classifications and material handling practices.

Background

On September 14, 2011, Missouri Department of Natural Resources (MDNR) performed a multi-media inspection of the Festus scrap metal processing facility. MDNR personnel collected samples from the roadways, solids from a tire wash, street sweeping debris, and other media. The collected samples were analyzed by MDNR's laboratory by total metals and toxicity characteristic leaching procedure (TCLP) metals analysis for the eight RCRA metals.

Based on the results of the MDNR inspection and sample results, a Notice of Violation (NOV) No. SLR07382748 dated November 22, 2011 was issued for failure to determine if waste is hazardous.

A material is classified as hazardous waste by United States Environmental Protection Agency (USEPA) under the RCRA regulations for lead if it contains $\geq$5 milligrams/liter (mg/L) leachable lead by the TCLP test method.

1631 Headland Drive • St. Louis, MO 63026 • (636) 343-1300 • FAX (636) 343-8192

Waste Stream Determination

Inspection Area

NPN Environmental mobilized to the site on December 1, 2011 and obtained representative samples of three generated waste streams to determine levels of heavy metal concentrations for disposal classification. Waste streams sampled included:

- Current street sweeping debris
- Current solids from the tire wash
- Solids previously recovered from the tire wash

The waste stream from current street sweepings (identified as WS-01) was collected as a grab sample from the dust and fines recently removed from the facility's street sweeper. The street sweeper is used to collect dust and dirt generated from trucks leaving the scrap yard from nearby city streets. This material is removed from the street sweeper and containerized in cubic yard super sacks pending transportation and disposal.

The second waste stream (identified as WS-02) was collected from solids generated at the facility's truck tire wash. To aid in minimizing the amount of dust and dirt transported by trucks from the scrap yard onto the public streets, a truck wheel wash is used to clean the truck wheels prior to exiting the site. The dust, dirt, mud, and debris washed from the wheels are transferred from the bottom of the drop out pan via a conveyer belt into cubic yard super sacks. Waste stream sample WS-02 was collected as a grab sample from the super sack being filled at the time of sampling.

At the time of sampling, eight super sacks previously obtained from removing solids from the truck wheel wash were staged together in the southeast portion of the site. A composite sample was collected from these eight super sacks and thoroughly homogenized to create a representative waste stream sample (identified as WS-03).

Inspection Procedures

Three representative waste stream samples were collected from the project site on December 1, 2011. The samples were transported in sample bags to NPN Environmental's office and stored in a refrigerated sample cooler. On December 2, 2011, the samples were containerized in laboratory-supplied containers and shipped under chain-of-custody protocol to a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory for total heavy metal analysis for the 8 RCRA Metals by EPA Method SW-846 6010B/7471A and TCLP heavy metal analysis for the 8 RCRA Metals by EPA Method SW-846 1311/6010B/7471A.

Laboratory Results

Three waste stream samples (WS-01 through WS-03) were collected from the project site and submitted to Teklab, Inc. for analysis under standard laboratory turnaround.

Each of the samples collected exhibited detectable total metal concentrations above laboratory detection limits for the 8 RCRA Metals. For the TCLP results, each sample revealed levels of leachable Barium, Cadmium, and Lead above laboratory detection limits. TCLP analysis for Arsenic, Chromium, Selenium, Silver, and Mercury were below laboratory detection limits for results of each detected TCLP result.

Detectable TCLP concentrations for Barium ranged from 0.671 mg/L to 1.530 mg/L, with all Barium TCLP concentrations below the USEPA hazardous waste classification level of 100 mg/L.

Detectable TCLP concentrations for Cadmium ranged from 0.124 mg/L to 0.166 mg/L, with all Cadmium TCLP concentrations below the USEPA hazardous waste classification level of 1 mg/L.

TCLP concentrations for Lead ranged from 1.340 mg/L to 2.490 mg/L, with all Lead TCLP concentrations below the USEPA hazardous waste classification level of 5 mg/L.

Laboratory results are summarized in **Table 1 – Waste Stream Sample Results** in *Attachment 1* and complete analytical results are provided in *Attachment 2 – Laboratory Results.*

Summary

MDNR performed an inspection of the Festus scrap metal processing facility on September 14, 2011, in which MDNR personnel collected samples from the roadways, solids from a tire wash, street sweeping debris, and other media. The collected samples were analyzed by MDNR's laboratory by total metals and TCLP metals for the eight RCRA metals. Based on the inspection and test results, MDNR issued an NOV for the site.

NPN Environmental was retained to perform waste stream classification of two of the waste streams addressed by MDNR in their NOV. Waste stream classification which consisted of representative sampling and laboratory analysis for total and leachable metals was conducted for the street sweeping and tire wash solids.

Since the time of the inspection, all generated street sweepings have been containerized as a single waste stream in cubic yard super sacks. A representative sample of this waste stream revealed total and TCLP metal concentrations exist; however, TCLP concentrations were below the established USEPA hazardous waste classification levels.

A tire wash at the facility was recently installed and placed into operation. At the time of the inspection, an initial volume of tire wash solids being generated for waste stream classification had not been achieved. All recovered tire wash solids have been containerized in cubic yard super sacks at the site, pending waste stream determination.

Two samples were collected of the tire wash solids, a waste stream sample for the material being generated at the time of sampling and a representative composite sample of the previously containerized material. Each waste stream sample was analyzed for total and TCLP metals. Results indicate total and TCLP metal concentrations exist; however, TCLP concentrations were below the established USEPA hazardous waste classification levels.

The sampling results for the waste stream determination of the street sweep and tire wash solids reveal the two waste streams are nonhazardous under RCRA regulations.

We appreciate the opportunity to provide our professional environmental engineering services to you. If you have any questions or require additional information, please call me at 636-343-1300.

Sincerely,

David B. Rowe, PE, DEE
Principal

Enclosures Attachment 1 – Table 1
Attachment 2 – Laboratory Results

1631 Headland Drive • St. Louis, MO 63026 • (636) 343-1300 • FAX (636) 343-8192

NPN ENVIRONMENTAL

ATTACHMENT 1

Table 1

Table 1
Waste Stream Sample Results

C-11241.B *Shapiro* *Festus, MO*	Regulatory Level	**Sample ID**	**WS-01**	**WS-02**	**WS-03**	
		Type	Grab	Grab	Composite	
		Sample Date	12/1/2011	12/1/2011	12/1/2011	
		Matrix	Solid	Solid	Solid	
Chemical of Concern		% Moisture	1.6%	14.6%	21.6%	
Total Metals		**Units**				
Arsenic		mg/Kg	12.10	19.40	14.30	
Barium		mg/Kg	221.00	551.00	778.00	
Cadmium		mg/Kg	16.60	30.30	27.40	
Chromium (total)		mg/Kg	38.60	159.00	149.00	
Lead		mg/Kg	4860.00	6450.00	3960.00	
Selenium		mg/Kg	2.50	4.25	3.40	
Silver		mg/Kg	1.98	2.12	1.89	
Mercury		mg/Kg	0.19	0.15	0.20	
TCLP Metals						
Arsenic	5.0	mg/L	<0.250	<0.250	<0.250	
Barium	100.0	mg/L	0.671	1.190	1.530	
Cadmium	1.0	mg/L	0.124	0.166	0.161	
Chromium (total)	5.0	mg/L	<0.100	<0.100	<0.100	
Lead	5.0	mg/L	1.340	2.490	2.200	
Selenium	1.0	mg/L	<0.500	<0.500	<0.500	
Silver	5.0	mg/L	<0.100	<0.100	<0.100	
Mercury	0.2	mg/L	<0.0002	<0.0002	<0.0002	

Notes:
WS-01 collected from current street sweepings
WS-02 collected from current tire wash solids
WS-03 collected from historical tire wash solids
Analysis by Teklab, Inc., Collinsville, Illinois

ATTACHMENT 2

Laboratory Results

December 08, 2011

Leston Porter
NPN Environmental Engineers, Inc.
1631 Headland Drive
Fenton, MO 63026
TEL: (636) 343-1300
FAX: (636) 343-8192

RE: Shapiro/C-11241.B

WorkOrder: 11120101

Dear Leston Porter:

TEKLAB, INC received 3 samples on 12/2/2011 12:55:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Deborah L. Taylor

Deborah L. Taylor
Project Manager
(618)344-1004 ex 18
dtaylor@teklabinc.com

Client: NPN Environmental Engineers, Inc. **Work Order:** 11120101

Client Project: Shapiro/C-11241.B **Report Date:** 08-Dec-11

Abbr Definition

CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
DNI	Did not ignite
DUP	Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MB	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TNTC	Too numerous to count (> 200 CFU)

Qualifiers

# - Unknown hydrocarbon	B - Analyte detected in associated Method Blank
E - Value above quantitation range	H - Holding times exceeded
J - Analyte detected below quantitation limits	M - Manual Integration used to determine area response
ND - Not Detected at the Reporting Limit	R - RPD outside accepted recovery limits
S - Spike Recovery outside recovery limits	X - Value exceeds Maximum Contaminant Level

Client: NPN Environmental Engineers, Inc.

Client Project: Shapiro/C-11241.B

Work Order: 11120101

Report Date: 08-Dec-11

Cooler Receipt Temp: 0.8 °C

Locations and Accreditations

Collinsville		Springfield		Kansas City	
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	Address	3920 Pintail Dr Springfield, IL 62711-9415	Address	8421 Nieman Road Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jhriley@teklabinc.com	Email	kmcclain@teklabinc.com	Email	dthompson@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2012	Collinsville
Kansas	KDHE	E-10374	NELAP	1/31/2012	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2012	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2012	Springfield
Arkansas	ADEQ	88-0966		3/14/2012	Collinsville
Illinois	IDPH	17584		4/30/2012	Collinsville
Kentucky	UST	0073		5/26/2012	Collinsville
Missouri	MDNR	00930		4/13/2013	Collinsville
Oklahoma	ODEQ	9978		8/31/2012	Collinsville

Teklab, Inc.
Environmental Laboratory

Laboratory Results

http://www.teklabinc.com/

Client: NPN Environmental Engineers, Inc.
Work Order: 11120101
Client Project: Shapiro/C-11241.B
Report Date: 08-Dec-11
Lab ID: 11120101-001
Client Sample ID: WS-01
Matrix: SLUDGE
Collection Date: 12/01/2011 13:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		**1.6**	%	1	12/05/2011 14:45	R157376
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP								
Arsenic	NELAP	0.250		**< 0.250**	mg/L	1	12/08/2011 10:30	73431
Barium	NELAP	0.0500		**0.671**	mg/L	1	12/08/2011 10:30	73431
Cadmium	NELAP	0.0200		**0.124**	mg/L	1	12/08/2011 10:30	73431
Chromium	NELAP	0.100		**< 0.100**	mg/L	1	12/08/2011 10:30	73431
Lead	NELAP	0.400		**1.34**	mg/L	1	12/08/2011 10:30	73431
Selenium	NELAP	0.500		**< 0.500**	mg/L	1	12/08/2011 10:30	73431
Silver	NELAP	0.100		**< 0.100**	mg/L	1	12/08/2011 10:30	73431
SW-846 1311, 7470A IN TCLP EXTRACT								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	12/07/2011 12:24	73433
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	4.90		**12.1**	mg/Kg-dry	2	12/08/2011 12:31	73354
Barium	NELAP	0.98		**221**	mg/Kg-dry	2	12/08/2011 12:31	73354
Cadmium	NELAP	0.39		**16.6**	mg/Kg-dry	2	12/08/2011 12:31	73354
Chromium	NELAP	1.96		**38.6**	mg/Kg-dry	2	12/08/2011 12:31	73354
Lead	NELAP	7.84		**4860**	mg/Kg-dry	2	12/08/2011 12:31	73354
Selenium	NELAP	3.92	J	**2.5**	mg/Kg-dry	1	12/06/2011 18:50	73354
Silver	NELAP	1.08		**1.98**	mg/Kg-dry	2	12/08/2011 12:31	73354
SW-846 7471A								
Mercury	NELAP	0.010		**0.185**	mg/Kg-dry	1	12/07/2011 12:24	73437

Teklab, Inc.
Environmental Laboratory

Laboratory Results

http://www.teklabinc.com/

Client: NPN Environmental Engineers, Inc.
Work Order: 11120101
Client Project: Shapiro/C-11241.B
Report Date: 08-Dec-11
Lab ID: 11120101-002
Client Sample ID: WS-02
Matrix: SLUDGE
Collection Date: 12/01/2011 13:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		**14.6**	%	1	12/05/2011 14:45	R157376
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP								
Arsenic	NELAP	0.250		**< 0.250**	mg/L	1	12/08/2011 10:42	73431
Barium	NELAP	0.0500		**1.19**	mg/L	1	12/08/2011 10:42	73431
Cadmium	NELAP	0.0200		**0.166**	mg/L	1	12/08/2011 10:42	73431
Chromium	NELAP	0.100		**< 0.100**	mg/L	1	12/08/2011 10:42	73431
Lead	NELAP	0.400		**2.49**	mg/L	1	12/08/2011 10:42	73431
Selenium	NELAP	0.500		**< 0.500**	mg/L	1	12/08/2011 10:42	73431
Silver	NELAP	0.100		**< 0.100**	mg/L	1	12/08/2011 10:42	73431
SW-846 1311, 7470A IN TCLP EXTRACT								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	12/07/2011 12:24	73433
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	4.81		**19.4**	mg/Kg-dry	2	12/08/2011 12:43	73354
Barium	NELAP	0.96		**551**	mg/Kg-dry	2	12/08/2011 12:43	73354
Cadmium	NELAP	0.38		**30.3**	mg/Kg-dry	2	12/08/2011 12:43	73354
Chromium	NELAP	1.92		**159**	mg/Kg-dry	2	12/08/2011 12:43	73354
Lead	NELAP	7.69		**6450**	mg/Kg-dry	2	12/08/2011 12:43	73354
Selenium	NELAP	3.85		**4.25**	mg/Kg-dry	1	12/06/2011 18:55	73354
Silver	NELAP	0.53		**2.12**	mg/Kg-dry	1	12/06/2011 18:55	73354
SW-846 7471A								
Mercury	NELAP	0.012		**0.146**	mg/Kg-dry	1	12/07/2011 12:24	73437

Teklab, Inc.
Environmental Laboratory

Laboratory Results

http://www.teklabinc.com/

Client: NPN Environmental Engineers, Inc.
Work Order: 11120101
Client Project: Shapiro/C-11241.B
Report Date: 08-Dec-11
Lab ID: 11120101-003
Client Sample ID: WS-03
Matrix: SLUDGE
Collection Date: 12/01/2011 14:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		**21.6**	%	1	12/05/2011 14:45	R157376
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP								
Arsenic	NELAP	0.250		**< 0.250**	mg/L	1	12/08/2011 10:54	73431
Barium	NELAP	0.0500		**1.53**	mg/L	1	12/08/2011 10:54	73431
Cadmium	NELAP	0.0200		**0.161**	mg/L	1	12/08/2011 10:54	73431
Chromium	NELAP	0.100		**< 0.100**	mg/L	1	12/08/2011 10:54	73431
Lead	NELAP	0.400		**2.20**	mg/L	1	12/08/2011 10:54	73431
Selenium	NELAP	0.500		**< 0.500**	mg/L	1	12/08/2011 10:54	73431
Silver	NELAP	0.100		**< 0.100**	mg/L	1	12/08/2011 10:54	73431
SW-846 1311, 7470A IN TCLP EXTRACT								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	12/07/2011 12:24	73433
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	4.90		**14.3**	mg/Kg-dry	2	12/08/2011 12:54	73354
Barium	NELAP	0.98		**778**	mg/Kg-dry	2	12/08/2011 12:54	73354
Cadmium	NELAP	0.39		**27.4**	mg/Kg-dry	2	12/08/2011 12:54	73354
Chromium	NELAP	1.96		**149**	mg/Kg-dry	2	12/08/2011 12:54	73354
Lead	NELAP	7.84		**3960**	mg/Kg-dry	2	12/08/2011 12:54	73354
Selenium	NELAP	3.92	J	**3.4**	mg/Kg-dry	1	12/06/2011 19:01	73354
Silver	NELAP	0.54		**1.89**	mg/Kg-dry	1	12/06/2011 19:01	73354
SW-846 7471A								
Mercury	NELAP	0.013		**0.204**	mg/Kg-dry	1	12/07/2011 12:24	73437

Teklab, Inc.
Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: NPN Environmental Engineers, Inc.

Work Order: 11120101

Client Project: Shapiro/C-11241.B

Report Date: 08-Dec-11

Carrier: Dawn Brantley

Received By: MT

Completed by: Timothy W. Mathis
On: 02-Dec-11

Reviewed by: Deborah L. Taylor
On: 02-Dec-11

Pages to follow: **Chain of custody** 1 **Extra pages included** 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 0.8
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☑	No ☐		

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY

pg. 1 of 1 Work Order # 1112010 1

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: NPN Environmental
Address: 1631 Headland Drive
City / State / Zip: St. Louis, MO 63026
Contact: Leston Porter Phone: 636/343-1300
E-Mail: leston.porter@npnenv.com Fax: 636/343-8192

Samples on: ☒ Ice ☐ Blue Ice ☐ No Ice 0.8 °C
Preserved in: ☐ Lab ☐ Field
FOR LAB USE ONLY
Lab Notes:
Comments:

Teklab Inc.
Courier Pick Up

- Are these samples known to be involved in litigation? If yes, a surcharge will apply. ☐ Yes ☐ No
- Are these samples known to be hazardous? ☐ Yes ☐ No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. ☐ Yes ☐ No

Project Name / Number: Shapiro / C-11241.B
Sample Collector's Name: David Rowe
Results Requested: ☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other_____ ☐ 3 Day (50% Surcharge)
Billing Instructions:

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO_3	NaOH	H_2SO_4	HCL	MeOH	$NaHSO_4$	Other	MATRIX: Water	Drinking Water	Soil	Sludge	Sp. Waste	INDICATE ANALYSIS REQUESTED: Total 8 RCRA Metals	TCLP 8 RCRA Metals	TCLP Pb if Total > 100 ppm
1112010 1 001	WS-01	12-01-11 / 13:50	1											X		X	X	
002	WS-02	12-01-11 / 13:55	1											X		X	X	
003	WS-03	12-01-11 / 14:00	1											X		X	X	

Relinquished By	Date / Time	Received By	Date / Time
[signature]	12/02/11 11:47	[signature]	12/2/11 1147
[signature]	12/2/11 1255	[signature]	12/2/11 1255

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

WHITE & YELLOW – LAB PINK – SAMPLER'S COPY

Phase II Environmental Site Assessment (ESA) for the Shapiro Brothers, Inc. Festus Site

June 30, 2011

Phase 2 Site Investigation Report
Shapiro Brothers, Incorporated
9th and Delmar Avenue
Festus, Missouri

June 30, 2011

Prepared for:

PSC METALS

MAYFIELD HEIGHTS, OHIO

Columbia, Illinois

Phase 2 Site Investigation Report
Shapiro Brothers, Incorporated
9th and Delmar Avenue
Festus, Missouri

June 30, 2011

Prepared for:

PSC METALS
MAYFIELD HEIGHTS, OHIO

PSC INDUSTRIAL OUTSOURCING, LP
210 West Sand Bank Road
Columbia, Illinois 62236

Project 624-1104-0030

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1 INTRODUCTION

PSC Industrial Outsourcing, LP (PSC) was retained by PSC Metals to prepare this Phase 2 Site Investigation (SI) for the current business called Shapiro Brothers Incorporated (SBi) located 9th Street and Delmar Avenue, Festus, Missouri (subject property) in Jefferson County. The subject property consists of seven parcels that comprise approximately 15 acres. The property is owned by SBi.

This Phase 2 SI report documents subsurface soil and groundwater conditions evaluated at the site for potential existing environmental liabilities as part of a due diligence effort. Sampling was performed June 6 through June 10, 2011.

PSC conducted a Phase 1 Environmental Site Assessment (ESA) of the subject property in May 2011. Findings of this assessment are detailed in the following document:

- *Phase 1 ESA, Shapiro Brothers Incorporated, 9th and Delmar Avenue, Festus, Missouri (May 18, 2011)*

Some of the information contained within this document was abstracted from the Phase 1 for use in the preparation of this report.

To meet the objectives of the site investigation, PSC collected soil and groundwater samples to assess the presence and extent of impact at the site, and obtain laboratory analytical data for comparison to the cleanup standards provided in the Missouri Risk-Based Corrective Action (MRBCA).

2 SITE INFORMATION AND HISTORY

The following sections are a summary of available information about the site setting, historical property use and current conditions. This information was used for establishing sampling locations based upon existing site conditions and the historical use of the property.

2.1 Site Location and Setting

The site occupies property located in the north part of Festus one to two blocks west of Business Interstate 55. The property consists of approximately 15 acres located in an industrial/commercial/residential area. Site location and site features maps are provided as Figure 2-1 and 2-2, respectively.

This site development summary is based upon information supplied by SBi and a review of historical information contained in the EDR reports. The approximate subject property chronology is as follows:

- Pre-1946 – The area is used as a sand quarry;
- 1946 – The subject property begins operation as a scrap yard;
- 1960 – The non-ferrous warehouse is constructed;
- 1970 – The maintenance building is constructed;
- 1972 – The baler building is constructed; the baler was decommissioned in 2006
- 1974 – the old office building was demolished in 1974 and the current building erected; renovations/expansion in 1989;
- 1975 – The shear and support structures were constructed;
- 1982 – The railroad scale house on the lower eastern one-third of the property was constructed;
- 1984 – The current torch cutting structure was constructed;
- 2005 – The current shredder building was installed;
- Current – the fixed base shredder and shear continue to operate.

2.2 Geology / Hydrogeology

PSC obtained the Festus, Missouri 7.5-Minute Quadrangle Topographic Map from the United States Geological Survey. The topographic map displays the area's contours, main roadways, and cultural features. According to site observations and/or this map, the site topography slopes gently to the east-southeast. The subject property is surrounded by residential and commercial properties.

The rock stratigraphic unit is classified as stratified sequence in the Ordovician System, Paleozoic Era. The St. Peters Sandstone outcrops approximately 1000 feet northwest of the site. This forms a 100-foot tall cliff, where sand quarries have operated until recent time. The St. Peter Sandstone is reported to range in thickness from 10 feet to over 100 feet. Soil borings advanced as part of this Phase II had shallow refusal on sandstone.

The soil component named on the soil survey maps is Haymond, consisting of silt loam, which has moderate infiltration rates, moderately well and well drained soils, with moderately coarse textures. Native soils encountered during this investigation consisted of silty and sandy clays, which appeared to be residual soils formed from decomposition of the sandstone bedrock.

The shallow unconfined groundwater direction flow is listed as unknown in the EDR report but likely flows to the southeast towards Plattin Creek and onto the Mississippi River. Groundwater encountered during this Phase II investigation was near the bedrock refusal in some boreholes. Piezometers installed in sample location F-01B, F-06 and F-09 did not produce enough water for sample collection.

Six wells were documented on the Federal USGS or State Database well information system within ½ -mile radius**.** Three of these wells are private wells with total depths ranging from 105 to 110 feet below ground surface (bgs). The private well reported on the Federal USGS and one of the two wells on the State Database may be the same well. The remaining three wells are public water supply wells with depths ranging from 660 to 894 feet bgs. The public water supply well reported on the Federal USGS and one of the two wells on the State Database may be the same well (both with a total depth of 894 feet bgs). The public supply wells are located at a lower elevation and southwest of the subject property.

One Federal Public Water Supply Well, one Federal USGS and eight State Database wells are located in the ½- to 1-mile west of the subject property.

2.3 Environmental Conditions

The Phase 1 ESAs conducted at the subject property revealed evidence of recognized environmental conditions (RECs) as defined in ASTM's Practice E 1527-05. The approximate REC locations are depicted on Figure 3-1. A summary of RECs for the subject property are as follows:

- **REC 1 (Decommissioned Baler)** – The baler operated from 1972 to approximately 2006. Soil staining was observed in the baler pit. Further inspection of the sump beneath the baler revealed an estimated 20,000 to 30,000 gallons of water and oil mixture. An access tunnel was constructed by SBi using former rail tank cars with the ends cut out. This tunnel which day lighted in the area of the fluff pile was also filled with water and oil. A pump, observed in this tunnel, was apparently used to pump the water and oil from the tunnel. This observation expands this REC to include the fluff pile.

- **REC 2 (Shredder Area) –** Shredder feed stock have the potential to contain electrical components containing heavy metal and PCBs as well as petroleum hydrocarbons.

- **REC 3 (Scrap Piles) –** Scrap piles have the potential to contain electrical components containing heavy metals and PCBs as well as petroleum hydrocarbons.

- **REC 4 (Shear Area) –** The shear has operated from 1975 to present. Hydraulic oil was observed running down one of the support legs of the shear. Soil staining was observed beneath and around the shear.

- **REC 5 (Torch Cutting Area) –** Stained soil was observed in the torch cutting area. Torch cutting has the potential for releasing heavy metals and petroleum hydrocarbons.

- **REC 6 (AST – Maintenance Building) –** A release from the diesel AST was being cleaned up at the time of the Phase 1 site visit.

- **REC 7 (Rail Scale Area) –** Soil staining was observed near the rail scale. SBi personnel indicated that this staining was from locomotives transporting material to/from the subject property.

- **REC 8 (Railcar Processing Area) –** Railcars are staged along the eastern spur for processing by a mobile shear. This process has the potential for releasing heavy metals, hydrocarbons and remnant heal material contained within the rail/tank car.

- **REC 9 (VECs) –** Petroleum releases on the subject property and from four off-site unresolved LUST sites are a vapor encroachment concern.

Other business environmental risks noted during the investigation:

- SBi was named as a PRP for the NL Industries / Taracorp Lead Smelter, 1200 16th Street, Granite City, Illinois 62040. The monetary implications of being named a PRP should be further investigated.

- The permanent site buildings are very old and potentially contain asbestos building materials, such as linoleum, floor tiles, ceiling tiles, composite roofing materials, etc. A liability-based asbestos evaluation was conducted by a licensed asbestos inspector as part of this Phase II SI.

Storm water from scrap yards may potentially be impacted with hydrocarbons and other hazardous materials.

3 SITE INVESTIGATION

To evaluate the potential environmental liability at the subject property, PSC characterized potential sources of environmental concern and the related constituents associated with those sources.

The evaluation of the subsurface conditions at the subject site included advancing Geoprobe® boreholes, excavating test pits, installing temporary groundwater monitoring wells, and collecting soil, groundwater and surface water grab samples for laboratory analysis. Data from the investigation activities were used to characterize the subsurface hydrogeologic conditions and assess the impact to the extent possible. Analytical results were compared to RBCA cleanup levels.

3.1 Sample Location Rationale

The site occupies 15 acres north of downtown Festus, in an area formerly utilized for sand quarries and mines. The site slopes from west to east with the eastern portion of the property separated by a concrete and ecology block wall. The western portion of the site is 10 to 12 feet higher than the eastern. This change in elevation was created by placement of man-made fill consisting of reworked native clays and imported limestone cobbles (rip-rap).

The westernmost lot is the main yard, where materials are dropped off and weighed. There are six permanent structures on the west yard - the scale house, non-ferrous building, maintenance shop, shear, shredder, and decommissioned baler. The decommissioned baler had a sump structure that was connected via a constructed access tunnel to the eastern portion of the site. Temporary structures (trailer boxes) are used for storage also. The west yard slopes to the south and east. Only the area immediately around the scale is paved. The remainder of the subject property is bare soil and scrap piles. The entire yard is fenced, and the site entrances and scale house at 9th Street with egress at the north end of the subject property on Vine Street.

The east yard also slopes to the south and east. Two rail spurs enter this portion of the subject property from the south. Rail cars are loaded with scrap from the shredder on the western rail spur. Old rail cars to be shredded are brought in on the eastern rail spur and dismantled with a mobile shredder. The rail spurs stop near the shredder. The main fluff pile is located north of the shredder on the east portion of the subject property. Fluff is removed from these piles north of the shredder with loaders and trucks accessing the area from Vine Street. The east portion of the site is not paved. There is one small structure, the Rail Scale House, near the south end of the east portion. Additional structures for controls of the shredder conveyor are located on the north end of the eastern portion of the

subject property. Old rail cars placed east of the eastern rail spur obstructed the view of the eastern property boundary.

Based on site conditions some of the sampling locations were modified from the work plan and are listed on Table 3-1 and shown on Figure 3-1. After attempts to advance boreholes using an air knife failed due to the presence of oversize material/fill, many locations were investigated using test pits. The F-03 locations planned near the present day scrap piles and shredder were moved to the east/lower portion of the site to assess the fill observed in this rail car processing area. This decision was also based on the observed subsurface conditions encountered on the western side of the subject site. Sediment samples and one surface water sample were collected. Samples of liquid from the sump beneath the decommissioned baler and the access tunnel for the baler were also collected. These samples were bi-phase, meaning they had a separate non-aqueous (oil) phase on top of water. The oil was analyzed separately. One sample, F-IDW was collected to characterize the soil cuttings for waste disposal.

3.1.1 Borehole and Monitoring Well Locations

Boreholes and temporary wells were designated F-UG, F-01A, F-01B, F-06, F-07 and F-09. PSC attempted to locate boreholes in the vicinity of a REC or environmental concern. However, due to oversize fill material encountered during air knife utility clearance, many of the boreholes were converted to test pits. Boreholes F-UG, F-01A, F-01B, F-06, F-07, and F-09 were subsequently converted to piezometers/temporary monitoring wells to assess the groundwater quality.

3.1.2 Test Pit Excavation Locations

Many of the proposed boreholes were converted to test pits and moved to locations on the eastern portion of the site to assess the fill material observed near the rail car processing area and the access tunnel coming from the sump of the decommissioned baler. Test pits were excavated and designated F-02-TP, F-03A-TP, F-03B-TP, F-03C-TP, F-04A-TP, F-04B-TP, and F-04C-TP. Sample F-08-TP was investigated with a test pit excavated by the mobile shear on site.

3.1.3 Surface Soil and Fluff Sample Locations

Two surface soil samples were collected in the torch cutting area. One surface soil sample was collected from the area north of the fluff pile where the soil is pile during the process of scrapping mud and debris off portions of the site. A sample of the fluff was also collected from the pile in this area.

3.1.4 Sediment Sample Location

Two sediment samples designated F-SU and F-SD for up-gradient and down-gradient locations respectively, were collected to assess potential contaminants entering and exiting the property.

3.1.5 Surface Water Sample Location

One surface water sample, SWDG was collected down gradient of the site beneath the 9th Street Bridge. Storm water north of the subject property, drains through an underground culvert that daylights along the eastern property boundary. Up-gradient surface water was not visible in the drainage ditch coming from the adjoining property north of the subject property.

3.1.6 Investigative Derived Waste Characterization

One composite sample, F-IDW, was collected from the 55 gallon drum containing investigation derived wastes (soil cuttings). This sample was collected for disposal characterization.

3.2 Investigation Field Activities

The following sections provide procedures for sediment sampling, borehole and test pit soil sampling, and installation of temporary monitoring wells. The appropriate method used to collect soil samples was based upon site-specific conditions at the time of field activities.

3.2.1 Borehole Drilling

Boreholes were advanced using a direct push drill rig with a 2-inch, I.D. 4-foot long continuous sampling barrel. The sampler was fitted with Geoprobe Macrocore® acetate liners. Continuous soil sampling was performed from the ground surface to the total depth of the probehole at each location. Drilling was performed without the introduction of water. The depths ranged from 12-20 feet below ground surface (bgs) where refusal on sandstone was encountered.

PSC personnel conducted borehole soil and groundwater sampling activities on June 6 through June 8, 2011. F-UG, F-01A, F-01B, F-06, F-07, and F-09 were subsequently converted to piezometers/temporary monitoring wells to assess the groundwater quality. F-01B, F-06 and F-09 did not produce sufficient volumes of groundwater for sample collection.

F-UG did not produce enough volume to run semi-volatile organic compound (SVOC) analysis.

The boreholes were logged for soil type, moisture content, visual impact, and odors. The samples and work zone areas were screened for organic vapors using a Photoionization detector (PID). Observations, measurements and other pertinent information were recorded on Boring/Well Construction Log Forms (Appendix B).

Ambient air conditions in the work zone area were monitored with the PID during the investigation. Readings were periodically taken from the breathing zone in the work area. Health and safety procedures were followed in accordance with the project health and safety plan.

3.2.2 Monitoring Well Installation

Six boreholes were subsequently converted to temporary groundwater monitoring wells. One-inch diameter temporary wells were placed in the boreholes to collect groundwater samples. The temporary groundwater monitoring wells were installed using 0.010-inch, slotted PVC well screens and solid PVC riser pipe. The well screen was installed to collect any shallow groundwater might be present. The monitored interval was determined based upon depth to bedrock. F-01B, F-06 and F-09 did not produce sufficient volumes of groundwater for sample collection. F-UG did not produce enough volume to run semi-volatile organic compound (SVOC) analysis. After sampling was completed the temporary wells were removed and boreholes were backfilled to ground surface with bentonite.

3.2.3 Test Pit Excavation and Soil Sampling

Test pits were excavated with a John Deere 300 track mounted excavator. The test pits were logged for fill and soil type, moisture content, visual impact, and odors. The samples and work zone areas were screened for organic vapors using a Photoionization detector (PID). Observations, measurements and other pertinent information were recorded on Test Pit Boring Log Forms (Appendix B). Ambient air conditions in the work zone area were monitored with the PID during the investigation. Readings were periodically taken from the breathing zone in the work area. Health and safety procedures were followed in accordance with the project health and safety plan.

3.2.4 Surface Soil and Fluff Pile Sampling

Two surface soil samples were collected from 0-1 feet bgs in the torch cutting area and one surface soil sample of the yard scrapings were collected using a shovel to expose the soil and the sample jars to scoop the

sample. The fluff pile sample was collected directly from the pile using the sample jars.

3.2.5 Sediment Sampling

Two sediment samples were collected in the vicinity of the storm water drainage ditches. They were sampled by collecting soil using a shovel and hand sampler to collect samples within a foot of the surface.

3.2.6 Surface Water Sampling

One surface water sample was collected down gradient of the east yard. This was collected by directly filling lab supplied glass and plastic containers. A sample of the water in the sump of the decommissioned baler building and in the access tunnel to this sump was collected by using a clean disposable 5-gallon plastic bucket and transferring the sample to lab supplied glass and plastic containers.

3.3 Sample Screening, Collection, and Handling

Continuous soil sampling was performed at each borehole location. Groundwater samples were collected from all of the temporary monitoring wells. The following sections provide a description of the procedures used for the screening, collection, and handling of the soil and groundwater samples.

3.3.1 Soil Sampling

Continuous soil samples were retained during borehole drilling. Soil sample depths from test pits were selected based on visual observations. The field geologist discreetly screened the recovered sample for indications of impact. The retrieved soil core was screened for volatile organic vapors with the PID. Additionally, the field geologist made observations for visible indications of impact and noted any odors present for the samples. Discrete soil samples were collected within a one-foot interval of the core.

The field geologist used disposable, nitrile gloves for handling soil samples. To minimize the potential for cross-contamination, the gloves were discarded between sample intervals. The hollow-barrel sampler system was fitted with disposable acetate liners.

Sampling procedures for VOCs, SVOCs, RCRA metals, TPH, and PCBs followed USEPA SW-846 Methods. Soil samples were placed in unpreserved containers provided by the laboratory.

Labels were affixed and the samples given unique sample identifications based upon the borehole location and depth. Chain of custody records were completed and the samples placed in a cooler with ice. The samples remained on ice until delivered to the laboratory for analysis.

3.3.2 Groundwater/Surface Water Sampling

Grab groundwater samples were collected using peristaltic pumps in temporary wells. Surface water was collect by dipping an unpreserved 1-liter sample jar into the water stream and filling the remaining sample jars. The groundwater samples were collected and placed directly in sample jars provided by the laboratory. Samples for VOC analysis were first collected in 40-ml VOA vials preserved with hydrochloric acid. Samples were then collected for SVOCs and PCB analysis in unpreserved 1-liter amber jars. Samples were collected for RCRA metals analysis using a 500-ml plastic bottle preserved with nitric acid preservative. A 0.45 micron filter was used during collection of samples for metals analysis. Filtering of groundwater samples from temporary wells is conducted to assure the metal results are indicative of dissolved metals rather than total metals due to the presence of suspended solids (silt and clay) in the sample. The surface water sample was not filtered.

3.4 Field Documentation

Daily work and field activities were recorded on Daily Field Reports. Well boring logs were used to record subsurface geology. Well sampling data was recorded on the daily forms included in Appendix B.

All laboratory analyses were performed by TestAmerica Laboratory, Incorporated (TestAmerica). This laboratory has been accredited in accordance with National Environmental Laboratory Accreditation Program (NELAC). Soil and groundwater samples were compared to screening levels provided in MRBCA guidance. A copy of the guidance is included in Appendix A.

3.4.1 Soil, Sediment, and Fluff Samples

Soil samples were analyzed to meet the requirements for constituents of concern based upon former uses of the property and for comparison to screening levels provided in the MRBCA Guidance Document. The fluff sample was compared to USEPA characteristic waste levels and TSCA waste disposal criteria.

Volatile and Semi-Volatile Organic Compounds

Soil samples were analyzed for VOCs using SW846 8260B and SVOCs using SW846 8270C.

RCRA Metals

All RCRA metals except mercury were analyzed using SW846 6010B. Mercury was analyzed using SW846 7471A.

Polychlorinated Biphenyls (PCBs)

PCBs were analyzed using SW846 8082.

TPH

TPH DRO/ORO/GRO were analyzed using SW846 8015B.

3.4.2 Groundwater/Surface Water Sample Analyses

Groundwater/surface water samples were collected as grab samples. The constituents for analyses are based upon historic use of the property and potential contaminants of concern and comparison to screening levels provided in the MRBCA Guidance Document. Groundwater and surface water samples were not always of sufficient volume to run each analysis proposed. Therefore, analyses were prioritized in the order of VOCs, RCRA metals, PCBs, SVOCs and TPH using methods analogous to soil sample analyses documented above. The analyses for the samples of liquid in the decommissioned baler sump were selected for comparison to TSCA waste disposal criteria.

4 SUMMARY OF RESULTS

Soil analytical results are summarized in Table 4-1. Groundwater analytical results are presented in Table 4-2. Analytical data was compared to MRBCA screening levels (Appendix A).

Based on site conditions some of the sampling locations were modified as listed on Table 3-1 and shown on Figure 3-1. Samples were collected from three of the temporary wells installed. One soil matrix spike/matrix spike duplicate was collected for QA/QC purposes. A brief discussion of results is presented in the following sections.

4.1 Field Observations

Prior to advancement soil boreholes, PSC cleared utilities using an air knife and vacuum excavator. Boreholes planned on the western portion of the site, especially near the decommissioned baler were in an area that was reportedly built up with several feet of imported limestone cobble fill. This material could not be removed with the vacuum excavator. Refusal of most available drilling equipment would have been very shallow. The vertical extent of this fill material was estimated at 4 to 12 feet deep based on the construction of the ecology block and concrete retaining wall. The horizontal extent of the cobble fill is unknown but apparently was replaced with reworked native clay somewhere south of the shredder and north of the shear. The cobble fill and ecology blocks were placed around an access tunnel that was located on the northeast corner of the baler sump running 65 feet northeast where it day lighted near the shredder conveyor. This tunnel was reportedly constructed from two tanker rail cars with ends removed and placed end to end. The tunnel sloped to the southwest toward the baler sump. The tunnel was constructed for the reported purpose of cleaning and maintaining the baler and sump. The tunnel and baler were filled with water and oil (reported to be hydraulic oil). Photograph No. 1 and No. 2 (Appendix B) show the condition of the sump and tunnel at the time of investigation. The liquid in the tunnel was encountered approximately 8 feet from the opening and was full 30 feet in from the opening. The liquid in the sump was 11 feet deep near the stairs to the sump. The area filled with the liquid could not be measured. A conservative estimated range of the volume of the liquid is between 20,000 and 40,000 gallons. According to Mr. Greg Shapiro, the liquid in this sump is removed by pumping into a poly tank on the surface and then hauled off site for separation and disposal. A pump, apparently used to remove liquid from this tunnel, was observed near the east opening.

As previously mentioned, because of the cobble fill material encountered and the discovery of the tunnel, boreholes planned around the baler building were moved to the eastern portion of the subject property near the tunnel opening and the fluff

pile. Photograph No. 3 shows the air knife utility clearance for F-01A at the opening of the access tunnel.

PSC also had difficulty advancing the air knife in the planned F-08 borehole. This was due to the large pieces of steel encountered. The dismantling of a rail tanker car was observed during the investigation. F-08 was advanced to 4 feet deep to apparent native silty and sandy clay using the mobile shear from the yard. The fill material encountered was stained dark gray, had a foul organic odor and consisted of wood, scrap, and rail car parts. Based on this observation and the observation of the reworked silty and sandy clay fill material encountered near the shear and the scrap piles, investigation of the fill material on the eastern portion of the subject site was expanded with additional test pits. Five test pits, F-08-TP, F-03A-TP, F-03B-TP, F-03C-TP, and F-04C-TP were advanced in the rail car processing area. The fill in this area of approximately 400 feet (NW-SE) by 80 feet (SW-NE) ranged from 3 feet deep on the southeast to 12 feet deep in the northwest near the shear. A concrete pad was encountered in Test Pit F-03B at one foot bgs. A number of attempts to advance this test pit were made along a north south line for approximately 50 feet. The actual dimensions of this pad are unknown. According to Mr. Greg Shapiro he could not recall a building in this area prior to SBi taking ownership of the property in the 1980s. Mr. Shapiro thought that the pad may have been the remnants of excess concrete brought to the site for other construction. Test pit excavations in the Rail Car Processing Area are shown in Photographs No. 4, 5, and 6 in Appendix B.

Surface soils near the shear and shredder (test pits, F-04A and F-04B) were stained with hydraulic oil, however the reworked native soil fill material encountered in the test pits showed only minor staining and no significant petroleum odor. The fill material on the western portion of the site, south of the shredder appeared to be placed previous to the cobble limestone fill on the northern portion of the upper/western side of the site.

4.2 Analytical Results

This section is a summary of the detected contaminants of concern (COC) for soil samples. PSC initially compared the soil and sediment sample results to the Missouri RBCA lowest default target screening levels (LDTLs) and the Groundwater protection screening levels (GWSLs). These comparisons provide a lower target screening level than proposed future site use. The results were also compared to Missouri RBCA Non-Residential screening levels for clayey type soils (Non Res Default Target Levels (DTLs)). The groundwater and surface water sample results were compared to Missouri RBCA lowest default target screening levels.

4.2.1 Soil Samples

Several COCs were above reporting levels at many locations. Several soil sample results exceeded the LDTLs and GWSLs for VOCs, SVOCs, and RCRA metals. One TPH sample collected to assess the torch cutting area exceeded the LDTLs. Two samples had concentrations of PCBs and one sample had a concentration of benzo(a)pyrene that exceeded Non Residential DTLs. Arsenic, cadmium and lead exceeded Non Residential DTLs in several samples. Soil sample results are summarized in Table 4-1.

REC-1 (Decommissioned Baler) – Seven soil samples were collected from three locations in the area of the decommissioned baler. Five of these samples were collected in two locations (F-01A and F-02-TP) near the exit of the access tunnel to the baler sump. Two samples were collected from the location F-01B, beneath the shredder conveyor. VOCs that exceeded the LDTLs and the GWSLs were Methylene Chloride and Naphthalene. Benzo(a)pyrene was the only SVOCs that exceeded the LDTLs in one sample. Arsenic and Lead exceeded the Non Res DTLs for surficial soils. PCBs, specifically Aroclor 1242 and 1254, exceeded the LDTLs in four samples and exceeded the GWSLs in three samples. TPH-DRO and TPH-ORO was detected in surficial soil samples in three locations.

RECs-2, 3 and 4 (Shredder, Shear and Scrap Piles) **–** Four samples were collected from two locations in this area. The gravel on the surface around this equipment was stained with hydraulic oil. However, the silty clay fill material had only minor staining. There were detectable concentrations of VOCs and TPH but none of these compounds exceeded LDTLs. No SVOCs were detected. Arsenic and lead concentrations exceeded LDTLs and GWSLs. Aroclor 1242 exceed LDTLs and GWSLs in one sample from F-04B (8-9´).

REC-5 (Torch Cutting Area) **–** Two samples were collected from two surface soil locations. The samples contained detectable concentrations of VOCs, SVOCs, RCRA metals, TPH and PCBs. VOCs, RCRA metals, and PCBs exceeded LDTLs and GWSLs. Arsenic, cadmium and lead exceeded Non Residential DTLs.

REC-6 (500-gallon Diesel AST) – Three samples were collected from one soil boring, F-06 in the area of a former AST release near the maintenance shop. There were detectable concentrations of VOCs and TPH especially in the sample collected from 1-2´ depth, but none of these compounds exceeded LDTLs. Arsenic and lead concentrations exceeded LDTLs and

GWSLs and one sample exceeded Non Residential DTLs. Aroclor 1254 was detected in the sample collected from 1-2´ depth.

REC-7 (Rail Scale Area) – Seven samples were collected from three locations near the Rail Scale. A surficial soil sample was collected in the stained area along the rail tracks. Three samples were collected from a boring approximately 25 feet south of the scale and three samples were collected from a borehole approximately 40 feet south and 30 feet east of the rail scale. VOCs, SVOCs and TPH were detected in some of these samples but not at levels that exceeded LDTLs. Arsenic and lead exceeded LDTLs and GWSLs in a number of these samples. Lead and Aroclor 1254 exceeded Non Residential DTLs

REC- 8 (Rail Car Processing Area) **–** Eight samples of fill material and the soil immediately beneath the fill material were collected from five locations in the Rail Car Processing Area. VOCs, SVOCs, RCRA metals, TPH and PCBs were detected in number of these samples. VOCs that exceeded the LDTLs and the GWSLs were methylene chloride and naphthalene. Arsenic, barium, cadmium and lead exceeded the LDTLs and GWSLs. Cadmium and lead exceeded the Non Residential DTLs for surficial soils. PCBs, specifically Aroclor 1242 and 1254, exceeded the LDTLs in four samples and exceeded the GWSLs in four samples. TPH-DRO and TPH-ORO was detected at relatively high concentrations in surficial soil samples in three locations.

Yard Scrapings **-** One surface soil sample was collected from the scrapings near the fluff pile. No VOCs, SVOCs, or PCBs were detected in this sample. Minor concentrations of TPH were detected. Arsenic and lead concentrations exceeded LDTLs and GWSLs.

Fluff Pile **–** One sample of the fluff pile was also collected. Several VOCs, a couple of SVOCs, metals, TPH and PCBs were detected in the fluff sample. These concentrations were compared to screening levels in Table 4-1, however this comparison is irrelevant because the material is regarded as a waste and not a soil. The level of PCBs in the sample did not exceed the disposal criteria of 50 mg/kg for a TSCA waste.

Sediment/Storm Water**–** An up-gradient and down-gradient sediment sample were collected. A comparison of the two samples indicates many more detectable concentrations VOCs, SVOCs, and TPH. Arsenic and lead concentrations exceeded LDTLs and GWSLs but lead concentrations were much higher down gradient. A minor concentration of Aroclor 1254 was detected in the down gradient sample.

Up-Gradient Soil Borehole – Three soil samples were collected from the up gradient soil boring, F-UG. One minor concentration of a VOC and a SVOC were detected in the 1-3´ sample. This sample also had minor concentrations of arsenic, barium, lead, mercury, TPH and PCBs. Arsenic, lead and Aroclor 1242 exceeded LDTLs and GWSLs. These concentrations, especially in the surficial soil samples can still be attributed to site activities.

4.2.2 Groundwater/Surface Water Samples

The groundwater analytical results were compared to Missouri RBCA LDTLs. Due to poor groundwater recharge rates and shallow bedrock, only three groundwater samples were collected. Two of those samples had sufficient volume to run the full suite of analyses. The up-gradient piezometer produced enough water to run VOCs, RCRA metals, and TPH (GRO). The analytical results are summarized in Table 4-2.

REC-1 (Decommissioned Baler) – F-01A was converted into a piezometer/temporary monitoring well. It was located near the opening of the access tunnel to the Baler Sump. The results from F-01A show concentrations of VOCs in groundwater with 1,2,4-trimethylbenzene and naphthalene exceeding LDTLs. Concentrations of SVOCs, RCRA metals and TPH were also detected, but not at levels exceeding the LDTLs.

Samples of water in the sump and the tunnel were also collected. As previously mentioned, these samples were bi-phasic, meaning that a layer of oil or non-aqueous phased liquid (NAPL), was floating on top of water. The water and oil were analyzed separately. Reduced sample volume for the water sample collected from the Tunnel resulted in only RCRA metals analyses. The water results are presented on Table 4-2 and compared to LDTLs. However, this comparison is somewhat irrelevant since this will be considered waste water when removed. The water analytical results showed minor concentrations of metals and more significant concentrations of TPH. It should be noted that the detection levels for VOCs and SVOCs were elevated due to sample dilution.

The oil samples collected from this liquid had no detectable concentrations of VOCs and only one detectable SVOC, Bis(2-ethylhexyl)Phthalate which is considered a ubiquitous compound found in many plasticizers and waxes. RCRA metals and TPH were not analyzed. Results of PCB analysis indicate 133 mg/kg of Aroclor 1242.

Storm Water – One surface water sample was collected on the down gradient extent of the Site beneath the bridge on 9th Street. No VOCs or

SVOCs were detected. Concentrations of arsenic, lead, and TPH (DRO and ORO) were detected, however levels did not exceed LDTLs.

4.2.3 Investigative Derived Waste

There were TCLP metals detections for barium, cadmium and lead in the waste characterization sample, but below the EPA toxicity level. Therefore, the soil cuttings are considered non-hazardous and suitable for disposal as a special waste. TCLP sample results are summarized in Table 4-3.

5 ENVIRONMENTAL LIABILITY COST ESTIMATE

This section is a summary of cost estimating rationale and an estimate of the environmental liability existing at each of the subject property.

5.1 Cost Estimating Rationale

The estimated cost assumes that there is a triggering mechanism to prompt the remedial action. Triggering mechanisms may include:

- Cleanup action prompted by a spill that exceeds a reportable quantity;
- Agency involvement prompted by adjacent property owner identification of impact on their property that originated from a subject property operation or property;
- RCRA Facility investigation or other investigation stipulated by a state agency as a result of an incident at a subject property location; or
- A voluntary cleanup by the subject property owner/operator.

5.1.1 Impacted Soil and Fill Material

Assuming PSC purchases the subject property, potential environmental liability for removal of impacted soil and fill material may be included. The liability estimated from the Phase 1 and 2 ESA is limited by the scope of the investigation and schedule for completion. Estimates of environmental liability are based on widely spaced sample locations. Assumptions have to be made regarding frequency of detection for contaminants in a more detailed investigation or corrective action. The footprint of the horizontal area to be addressed is often evaluated based upon visual observations, type of operation, contaminant type and engineering judgment. In these cases, the estimated cost will be provided as a range based upon a plus or minus 50% of the assumed footprint area. The estimate will provide for dig, haul, tipping fees and backfill of the excavation with clean fill. Legal fees will not be included in the estimate.

5.1.2 Impacted Groundwater above USEPA RSLs or Industrial Cleanup Guidance Standards

One triggering mechanism for the remediation of impacted groundwater is discovery by down-gradient receptors. Phase 1 and 2 data was evaluated for potential down-gradient receptors as well as the type of

industry/operations in the down-gradient direction from the site. If there is an industry located in the down-gradient direction from a subject property facility with an ongoing RCRA facility investigation or with existing groundwater monitoring wells, the potential exists for discovery of impacted groundwater originating from the site.

- The low end cost estimate assumes no triggering event occurs that would trigger a groundwater investigation and potential cleanup.

- The most likely cost estimate would cover the cost for a groundwater assessment. This may include documentation of background metals concentrations for a statistical comparison to on-site concentrations. This may also include the establishment of a groundwater monitoring zone (GMZ) and natural attenuation. Groundwater may be impacted with potential contaminants above MCLs within the footprint of the subject property provided MCLs are met within the GMZ (typically the property lines or portion of the property). In some cases, purchase of the adjacent property may be necessary to expand the GMZ. Much of the estimated cost will be for investigation and characterization of groundwater contamination.

- A high end cost estimate would assume that active remediation of the groundwater plume is necessary to protect human health and the environment. This may be necessary in those cases where the concentrations of the contaminants are extremely high or it is impractical to purchase the adjacent property.

5.2 Cost Estimate

Volumes of impacted soil that may require remediation have been estimated based widely spaced sample locations. Since these estimates are based on widely spaced sample locations, is assumed that material between sample locations will have a similar waste characterization. Areas beneath structures or paved areas are assumed to be excluded. For shallow soils, remediation of impacted soil by excavation, disposal, and backfilling is utilized for evaluating liability estimates. For deeper impacted soils, if migration to groundwater is not a concern, pathway elimination by construction of an engineered barrier coupled with an environmental management plan for future intrusive construction activities would be considered for evaluating liability estimates.

5.2.1 Site-Specific Environmental Liability Estimate

The subject property comprises seven parcels totaling approximately 15 acres. A small portion of the site is covered with gravel. The majority of

the site has a soil cover. Sprinklers are used for dust control on the western portion of the site. An area on the northeast side of the site, approximately 80 feet by 250 feet, is covered with fluff from the shredder. Also on the east side of the site in the Rail Car Processing Area, scrap and debris fill cover an area approximately 400 by 80 feet. Two large scrap piles are located between the shear and the shredder.

Throughout portions of the site, natural materials consisting of silty and sandy clay and sandstone along with fill material (construction purposes) consisting of re-worked silty clay and imported cobble sized limestone, were observed. Silty and sandy clay, typical for decomposed bedrock, were encountered above sandstone bedrock. Groundwater in this clay was not laterally continuous.

Soil sample results indicate that one SVOC, benzo(a)pyrene exceeded MRBCA non-residential screening levels. Arsenic and lead concentrations exceeded MRBCA non-residential screening levels in samples collected from the area east of the access tunnel to the decommissioned baler sump and the fluff pile. In addition to arsenic and lead, cadmium exceeded the MRBCA non-residential screening levels in the sample collected in the Torch Cutting Area. Lead also exceeded MRBCA non-residential screening levels in the surficial soil samples collected in the Rail Car Processing, the AST and the Rail Scale areas.

The sample of the fluff material indicated that while there were detectable concentrations of PCBs, concentrations were below TSCA regulations. The total lead results for the fluff material sample were 3,580 mg/kg. These levels may exceed toxicity characteristics when analyzed using TCLP.

Environmental liability costs have been calculated for the following items:

- REC 1 (Decommissioned Baler) – an environmental reserve has bee estimated for the excavation and disposal of an estimated 100'x 150' area to a depth of 3 feet containing arsenic (20.9 mg/kg) and lead (1,330 and 3,980 mg/kg). An environmental reserve has also been established to address groundwater in this area of the site that contained lead (45.6 ug/L) in excess of its MCL (15 ug/L).

- REC 2 (Shredder Area) – The sampling team was unable to collect soil samples in the immediate area of the shredder where hydraulic oil-like staining was observed due to physical obstructions. One test pit (F-04A) was collected near the scrap pile south of the shredder. Slightly elevated levels of lead (141 mg/kg) were

detected in this sample. A test pit (F-04C) located adjacent and east of the shredder on the lower tier contained elevated levels of lead (641 mg/kg) in a sample collected at 5 – 6 feet bgs. An actual shredder fluff sample contained concentrations of arsenic (17.4 mg/kg), lead (3,580 mg/kg) and PCBs (16.9 mg/kg) that exceeded MRBCA non-residential target levels. An environmental reserve has been estimated for the excavation and disposal of an estimated 150'x 150' area of soil to a depth of 3 feet.

- REC 3 (Scrap Piles) - Two test pits (F-04A and F-04B) were collected near the scrap piles south of the shear. Slightly elevated levels of lead (141 to 203 mg/kg) were detected in these samples. An environmental reserve has been established for housekeeping improvements (surface scrapping of stained soil) in this area.

- REC 4 (Shear Area) – The sampling team was unable to collect soil samples in the immediate area of the shredder where hydraulic oil-like staining was observed due to physical obstructions. One test pit (F-04B) was collected near the scrap piles north of the shear. A slightly elevated level of lead (203 mg/kg) was detected in this shallow soil sample. An environmental reserve has been established for housekeeping improvements (surface scrapping of stained soil) in this area.

- REC 5 (Torch Cutting Area) – Two shallow soil samples (F-05A and F-05B) contained extremely elevated levels of arsenic (50.7 and 24.6 mg/kg), cadmium (108 and 87.3 mg/kg) and lead (36,700 and 19,700 mg/kg) that exceeded MRBCA non-residential target levels. An environmental reserve has been estimated for the excavation and disposal of an estimated 80'x 125' area of soil to a depth of 3 feet.

- REC 6 (AST – Maintenance Building) – The shallow soil sample from boring (F-06) contained an elevated levels of lead (2,700 mg/kg) that exceeded the MRBCA non-residential target level. An environmental reserve has been estimated for the excavation and disposal of an estimated 50'x 50' area of soil to a depth of 3 feet.

- REC 7 (Rail Scale Area) – The shallow soil sample from boring (F-07) contained elevated levels of lead (822 mg/kg) and PCB Aroclor 1254 (28.5 mg/kg) that exceeded MRBCA non-residential target levels. The shallow soil sample from boring (F-07A) contained an elevated level of lead (3,350 mg/kg) that exceeded the MRBCA non-residential target level. An environmental

reserve has been estimated for the excavation and disposal of an estimated 80'x 150' area of soil to a depth of 2 feet.

- REC 8 (Railcar Processing Area) – The shallow soil samples from three test pits (F-03A, F-03B and F-08) contained elevated levels of lead (3,270, 2,920 and 2,000 mg/kg) that exceeded MRBCA non-residential target levels. The sample from F-03B also exceeded the target level for cadmium. The soil sample from boring (F-03C) collected at a depth of 5-6 feet bgs contained a lead concentration of 641 mg/kg just below the MRBCA non-residential target level (660 mg/kg). An environmental reserve has been estimated for the excavation and disposal of an estimated 80'x 300' area of soil to a depth of 3 feet.

  The average depth of fill material in this area of the site is approximately 6 feet. The fill material contained wood and other non-ferrous debris as well as ferrous material. The potential exists to off set some of the remediation cost by reclamation of ferrous scrap.

- REC 9 (Vapor Encroachment Concerns) – Site groundwater (F-01A) contained concentrations of VOCs that exceeded the MRBCA lowest default target level. Vapors from this groundwater could pose a vapor encroachment concern.

- Decommissioned Baler Sump, Tunnel and Building – PSC estimates 40,000 to 85,000 gallons of liquid in the baler sump and tunnel. The liquid contains a NAPL layer of hydraulic oil that had PCB concentrations of 133 mg/kg. This oil should be handled as a TSCA waste. The equipment inside the building was leaking hydraulic oil that is also potentially impacted with PCBs. The estimate to address the residual bi-phase liquids is $100,000. Even if this material is removed, the potential exists that additional oil may weep from the sump structure during future storm events until the baler is permanently closed.

  Permanent closure of the baler building will require the establishment of an environmental reserve for decontamination of the equipment, building, sump and tunnel; and demolition /removal of the building and tunnel and excavation of associated impacted soil. Table 5-2 is a preliminary estimate of the cost ($542,000) to demolish and close the baler building in accordance with TSCA-guidelines. No as-built drawings were available for use in estimating quantities. Quantities are approximate based upon take offs from aerial photographs and limited Phase 2 SI notes. It was

assumed that the hydraulic oil and other residual liquids contained in the baler, baler reservoir and supporting equipment were removed and properly disposed when the baler was decommissioned. It was assumed that the sump will not require additional dewatering after initial oil/water removal and gross equipment decontamination.

- One fluff sample (F-11) was collected and submitted for analysis. The fluff contained elevated levels of arsenic (17.4 mg/kg), lead (3,580 mg/kg) and total PCBs (21 mg/kg). The PCB concentration is below the 50 ppm TSCA waste level. As long as the RCRA metals do not leach at levels that characterize the fluff as a TCLP toxic waste, the material is suitable for landfill as a special waste. It is recommended that additional fluff characterization data be requested from SBi. Disposal of routine generated fluff is considered part of routine operational expense and no reserve has been established to dispose of the on-site fluff inventory.

Environmental costs have been included for general facility housekeeping improvements that may entail the removal/disposal of the top 3 inches of visually stained soil in areas of the site. The housekeeping improvements will minimize the potential migration of process impacted soils from entering the storm water basins. A contingency is also included for potential soil impact that may not have been discovered due to the limited number of samples collected. This contingency is based on the remaining unpaved yard area excluding buildings, asphalt parking areas and the footprint of areas that have estimated remedial cost. Table 5-1 is a summary of estimated liability costs.

General housekeeping costs were estimated based on visual observations. Estimated costs for storm water management improvements were also based on visual observations and engineering practices. Costs have been included for potential asbestos containing material (ACM) liability based upon the performance of a liability-based asbestos evaluation (Appendix D).

5.2.2 Data Gap Issues

The oil phase of the bi-phase liquid contained in the decommissioned baler sump contained 133 mg/kg of PCBs. This oil would require disposal as a TSCA waste. Records for the disposition of historically generated sump wastewater should be obtained to document the volume, method and facility this material was sent. The potential exists for off-site CERCLA liability if TSCA waste was disposed in a misappropriate manner. A

similar request should be made for the disposition of similar oily sump water from the current shear.

An access tunnel runs from the baler sump to the current storage area for fluff. Documentation should be obtained to verify that floating oil has never been discharged from the tunnel and been soaked up onto the fluff and disposed of as a special waste in a landfill.

Additional documentation regarding the characterization of fluff should be obtained to verify that the lead content of the fluff does not render the material a TCLP hazardous waste for lead.

List of Tables

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5-2	Baler Demolition / TSCA Closure Cost Estimate

Table 3-1
Summary of Final Sampling Locations
Festus, Missouri

No.	Location	Soil Sample Interval			GW / surface water Sample	Wipe, Sediment or Product Sample	Analytes * (TPH)	Comments
		0 - 3´	> 3´	> 3´ optional				
F-09	**REC-7,** Rail scale area	X	X	X	X		VOCs, SVOCs, RCRA Metals, TPH & PCBs	Added boring and piezometer in attempt to collect additional downgradient groundwater samples. This produced insufficient water for sample collection.
F-10	Fluff Pile	X					VOCs, SVOCs, RCRA Metals, TPH & PCBs	
F-11	Yard Scrapings	X					VOCs, SVOCs, RCRA Metals, TPH & PCBs	
	REC-9, VEC concerns						Use GW data to evaluate this REC	
F-SU	Up Gradient Sediment/Storm Water				X	X	VOCs, SVOCs, RCRA Metals, TPH & PCBs	Grab Sample
F-SD	Down Gradient Sediment/ Storm Water				2	2	TCLP Metals	Grab Sample
IDW	Investigation Derived Waste Sample						TCLP Metals	Grab Sample

Notes: Other samples may be screened visually and using a PID (based upon visual observations, only one deep sample may be collected from some locations)

Yellow highlighted samples may have a piezometer installed to collect a groundwater sample

*TPH – use field screening (PID, visual observations) to select **one sample** increment for analysis.

IDW drummed waste to be tested for TCLP RCRA metals

Table 4-1
Soil Sampling Results (Hits Only)
Sharpiro Brothers, Inc.
9th and Delmar Avenue
Festus, Missouri

Analyte	Lowest MRBCA Default Target Levels	Non-Residential Soil Type 3 (Clayey)		Groundwater Protection	REC-1, Decommissioned Baler, Tunnel Exit, Fluff Pile							REC-2, 3, 4, Shredder, Shear, and Scrap Piles						REC-5, Torch Cutting Area		REC-6, AST Release Near Maintenance Bldg.			REC-7, Rail Scale Area			
Sample Designation					F-01A	F-01A	F-01A	F-01B	F-01B	F-02 TP	F-02 TP	F-04A TP	F-04A TP	F-04B TP	F-04B TP	F-04C TP	F-04C	F-05A	F-05B	F-06	F-06	F-06	F-07A	F-07	F-07	F-07
Depth Interval (feet bgs)		Surficial Soil	Subsurface Soil	Soil Type 3 (Clayey)	1-3	6-8	9.5-10.5	1-2	4-6	3	5-6	2-3	5-7	2-3	8-9	5-6	12-13	0-1	0-1	1-2	4-6	8-9	0-1	1-3	5-7	9-10
Lab ID					NUF1504-03	NUF1504-04	NUF1504-05	NUF1717-07	NUF1717-08	NUF1960-01	NUF1960-02	NUF1717-05	NUF1717-06	NUF1686-01	NUF1686-02	NUF1960-03	NUF1960-04	NUF1686-03	NUF1686-04	NUF1504-06	NUF1504-07	NUF1504-08	NUF1504-09	NUF1519-04	NUF1519-05	NUF1519-06
Date Sampled					6/7/2011	6/7/2011	6/7/2011	6/8/2011	6/8/2011	6/10/2011	6/10/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/10/2011	6/10/2011	6/8/2011	6/8/2011	6/7/2011	6/7/2011	6/7/2011	6/7/2011	6/7/2011	6/7/2011	6/7/2011
Volatile Organic Compounds (mg/kg) (SW846 8260B)																										
1,2,4-Trimethylbenzene	3.93	10,100	373	3.94	1.89	ND	0.0543 PX	ND	ND	0.204 PX	ND	ND	ND	0.00382 PX, J	ND	ND	ND	ND	0.367 PX, J	0.00933 PX, J	ND	ND	0.00453 J	ND	ND	ND
1,3,5-Trimethylbenzene	0.882	10,100	59.6	0.894	0.603	ND	0.0175 PX	ND	ND	0.105 PX	ND	ND	ND	ND	ND	ND	ND	ND	0.186 PX, J	0.091 PX, J	ND	ND	0.00231 J	ND	ND	ND
2-Butanone	7.3	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	19.5	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	4.2	807,000	115,000	10.6	0.0766 J	0.113 J	0.0625 PX	ND	ND	0.158 PX	0.114 PX	0.152 PX, J	0.165 PX, J	0.151 PX, J	ND	0.0725 PX	ND	0.132 PX, J	0.0811 PX, J	ND	ND	ND	ND	ND	ND	ND
Benzene	0.0561	763	7.51	0.0655	0.00316 J	0.00242 J	ND	ND	ND	0.00624 PX	ND	0.00382 PX, J	ND	ND	ND	ND	ND	0.0199 PX, J	0.0123 PX, J	ND	ND	ND	ND	0.00242 J	ND	ND
Carbon disulfide	6.26	95,600	172	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00604 PX, J	0.00779 PX, J	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.0766	17,600	416	2.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	39.9	8,660	11.8	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	10.5	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01 PX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.0766	678	1.63	0.798	0.00975 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00517 PX, J	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	0.204	2,060	3.78	0.227	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	39.9	97,500	5,200	41.1	0.0418 J	0.00304 J	0.00654 PX	ND	ND	0.0245 PX	ND	ND	ND	0.0051 PX, J	ND	ND	ND	0.00421 PX, J	0.0419 PX, J	0.00242 PX, J	ND	ND	0.00461 J	ND	ND	ND
Isopropylbenzene	10.5	91,100	267	27.9	0.00976 J, L1	ND	ND	ND	ND	0.0082 PX, L, J	ND	ND	ND	ND	ND	ND	ND	ND	0.00674 PX, J	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	0.398	14,900	615	0.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00487 PX	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	0.0176	3,700	77	0.0278	0.133 J	ND	ND	0.0463 PX, J	0.0258 PX, J	ND	ND	ND	ND	ND	0.0133 PX, J	0.0132 PX	ND	0.107 PX, J	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.325	119	443	0.327	0.835	ND	0.0123 PX	ND	ND	0.0392 PX	ND	ND	ND	ND	ND	ND	ND	ND	0.337 PX, J	0.0101 PX, J	ND	ND	ND	ND	ND	ND
n-Butylbenzene	41.6	35,900	3,080	41.8	0.351	ND	0.0066 PX	ND	ND	0.0387 PX	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0273 PX, J	ND	ND	ND	ND	ND	ND
n-Propylbenzene	13	35,900	1,060	13.2	0.229	ND	0.00618 PX	ND	ND	0.0278 PX	ND	ND	ND	ND	ND	ND	ND	ND	0.143 PX, J	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	271	---	---	---	ND	ND	ND	ND	ND	0.00838 PX	ND	ND	ND	ND	ND	0.008 PX	ND	ND	ND	0.0256 PX, J	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	35.2	35,900	1,710	35.4	ND	ND	ND	ND	ND	0.00565 PX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	11.7	186,000	31,500	11.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.141	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00537 PX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	29.8	81,100	13,800	31.6	0.0146 J	0.0101 J	0.00292 PX	0.00472 PX, J	ND	0.00892 PX	ND	ND	ND	0.0126 PX, J	ND	0.00233 PX	ND	0.0177 PX, J	0.0475 PX, J	0.0047 PX, J	ND	ND	0.0142 J	0.00318 J	ND	ND
Trichlorofluoromethane	7.35	254,000	181	29.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00231 J	ND	ND	ND
Xylenes, total	24.7	104,000	663	652	0.249 J	0.00627 J	0.0464 PX	ND	ND	0.143 PX	ND	ND	ND	0.00675 PX, J	ND	ND	ND	0.0072 PX, J	0.264 PX, J	0.0226 PX, J	ND	ND	0.00586 J	ND	ND	ND
Semi-Volatile Organic Compounds (mg/kg) (SW846 8270C)																										
1-Methylnaphthalene	---	---	---	---	0.668	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	7.55	3,590	16,400	7.57	1.33	ND	0.0717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/4-Methylphenol	---	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	174	30,700	1,720,000	175	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	175	54,100	2,150,000	175	ND	ND	ND	0.267 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	3,060	154,000	10,100,000	3,060	ND	ND	ND	0.194 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	6.12	21	2,310,000	6.12	ND	0.35	ND	0.748 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.105	0.106 J	ND	ND
Benzo (a) pyrene	0.62	2	933,000	30.4	ND	0.397	ND	0.962 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.107	0.15 J	ND	ND
Benzo (b) fluoranthene	6.19	21	909,000	11.5	ND	0.566	ND	1.38 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.142	0.189 J	ND	ND
Benzo (g,h,i) perylene	1,720	16,500	1,240,000,000	6,210	ND	0.464	ND	0.564 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.107	0.124 J	ND	ND
Benzo (k) fluoranthene	62	211	19,900,000	118	ND	ND	ND	0.808 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0953	0.162 J	ND	ND
Bis(2-ethylhexyl)phthalate	347	1,230	11,700,000,000	13,500	8.18	3.16	0.464	1.41 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.79 J	23.6 J	ND	ND	ND	ND	0.752 J	ND	ND
Butyl benzyl phthalate	12,200	123,000	2,830,000,000	13,300	4.58	4.5	0.414	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.825	ND	ND	ND
Chrysene	599	2,040	3,120,000	612	0.142	0.468	ND	0.865 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.139	0.148 J	ND	ND
Dibenz (a,h) anthracene	1	2	7,440,000	2	ND	ND	ND	0.211 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	1,120	5,680,000	142,000,000	1,450	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	---	---	---	---	1.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	75.8	23,200	2,410,000	76.3	0.792	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	2,280	21,900	191,000,000	2610	0.244	0.631	ND	0.668 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36 J	ND	ND	ND	ND	0.231	0.136 J	ND	ND
Fluorene	211	21,300	6,060,000	211	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-cd) pyrene	3.77	13	50,500,000	19.7	ND	ND	ND	0.556 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0731	0.11 J	ND	ND
Naphthalene	0.325	119	443	0.327	0.772	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	158	28,200	2,520,000	158	0.264	ND	ND	0.104 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.108	0.0746 J	ND	ND
Phenol	25.6	128,000	407,000	35.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	1,500	16,400	197,000,000	1500	0.264	0.594	ND	0.848 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.376 J	ND	0.0672	ND	ND	0.21	0.154 J	ND	ND
Metals Analysis (mg/kg) (SW846 6010B/7471A)																										
Arsenic	3.89	15.9	---	7.23	20.9	5.51	5.85	11.5 J	7.58 J	6.41	7.91	7.48 J	5.17 J	6.29 J	14.4 J	15	6.7	50.7 J	24.6 J	11	6.59	6.05	12.6	8.97 J	5.55 J	4.24 J
Barium	2,040	181,000	---	2,040	1310	121	85.7	232 J	129 J	198	165	238 J	105 J	218 J	119 J	202	161	560 J	577 J	245	82.4	70.1	437	270 J	106 J	103 J
Cadmium	9.31	74.8	---	9.32	ND	ND	ND	3.46 J	ND	ND	ND	ND	1.31 J	2.65 J	ND	ND	ND	108 J	87.3 J	21.3	ND	ND	31.7	4.98 J	ND	ND
Chromium	74,600	472,000	---	4,470,000	136	18.4	17.6	31.2 J	20.4 J	19.2	24.5	27.1 J	12.6 J	23.2 J	21.3 J	20.8	23.6	665 J	499 J	36.3	24.4	26.9	62.8	24.5 J	19.3 J	15.7 J
Lead	3.74	660	---	3.77	1,330	7.94	8.97	3980 J	10.8 J	391 M8	9.74	141 J	164 J	203 J, MHA	94.9 J	641	11.4	36700 J	19,700 J	2,700	19.5	33.3	3,350	822 J	7.47 J	14.6 J
Selenium	6.27	4,780	---	6.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.35 J	ND	ND	ND	ND	ND	ND	ND	ND	2.28	ND	ND	ND
Silver	16.2	4,480	---	16.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.1 J	83.3 J	2.79	ND	ND	2.36	ND	ND	ND
Mercury	2.19	630	512	---	0.65	ND	ND	0.23 J	ND	ND	ND	0.32 J	ND	0.32 J, M8	0.23 J	ND	ND	0.32 J	0.7 J	0.43	ND	ND	0.99	0.55 J	ND	ND
8015B)																										
Diesel	4,150	1,410,000	109,000	2,940,000,000	586	ND	ND	296 J	ND	18.6	ND	ND	5.61 J	121 J	299 J	6.49	ND	1,960 J	28,800 J	3,080	13.5	50.4	825	30.7 J	ND	ND
TPH - Oil Range	124,000	1,250,000	---	2,940,000,000	2140	4.26	ND	628 J	ND	25.1	ND	6.39 J	14.4 J	381 J	854 J	16.1	ND	4,620 J	34,600 J	1,670	10	41.1	1,570	60.4 J	ND	ND
PCBs (mg/kg) (SW846 8082A)																										
PCB-1242	0.0557	6.94	246	0.0558	2.52	ND	0.378	1.33 J	ND	ND	ND	ND	ND	ND	0.0842 J	ND	ND	0.233 J	0.394 J	ND	ND	ND	ND	ND	ND	ND
PCB-1248	1.08	7.21	2,420	1.44	ND	ND	ND	ND	ND	0.0458	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	1.1	7.29	6,370	2.42	1.44	1.94	0.14	0.73 J	ND	ND	ND	ND	ND	ND	0.0431 J	ND	ND	0.14 J	ND	0.168	ND	ND	0.42	28.5 J	ND	0.0697 J
PCB-1260	1.11	7.38	48,000	33.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.21 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
Only detections above reporting limit are shown
NS: Not Sampled
ND : Not Detected
TP: Test Pit
26 Concentrations exceeding the MRBCA lowest default target levels
Concentrations exceeding MRBCA non-residential soil target levels
Concentrations exceeding the soil concentration protective of domestic use of groundwater pathway standards
MRBCA Table B-7 Tier I Risk-Based Target Levels For Non-residential land use soil Type 3 (Clayey)
Industrial Surficial Soils within depths of 0-3 ft. below ground surface are compared to the ingestion, inhalation (Vapor Emissions and particulates), and Dermal Contact.
Industrial Subsurface Soil within depths of 3 ft. and greater are compared to the indoor inhalation of vapor emissions.
J: Estimated value.
M7: The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
M8: The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA: Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
PX: Sample for VOA analysis not received in preserved VOA vials or Encore or similar sampling device.
L: Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L1: Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.

Table 4-1
Soil Sampling Results (Hits Only)
Sharpiro Brothers, Inc.
9th and Delmar Avenue
Festus, Missouri

Analyte	Lowest MRBCA Default Target Levels	Non-Residential Soil Type 3 (Clayey)		Groundwater Protection	REC-8, Railcar Processing Area						Down Gradient of Rail Scale Area			Fluff Pile	Yard Scrappings	Down-Gradient Sediment	Up-Gradient Sediment	Up-Gradient Sample, NW Corner of Site		
Sample Designation					F-03A TP	F-03A TP	F-03B TP	F-03C TP	F-08 TP	F-08 TP	F-09	F-09	F-09	F-10	F-11	F-SD	F-SU	F-Ug	F-Ug	F-Ug-
Depth Interval (feet bgs)		Surficial Soil	Subsurface Soil	Soil Type 3 (Clayey)	1-3	4-5	0-1	5-6	2-3	3-4	2-3	7-9	9.5-11	---	---	0-1	0-1	1-3	6-7	13-14
Lab ID					NUF1686-05	NUF1686-06	NUF1960-05	NUF1960-06	NUF1504-01	NUF1504-02	NUF1519-07	NUF1519-08	NUF1519-09	NUF1717-04	NUF1717-02	NUF1717-01	NUF1717-03	NUF1519-01	NUF1519-02	NUF1519-03
Date Sampled					6/8/2011	6/8/2011	6/10/2011	6/10/2011	6/7/2011	6/7/2011	6/7/2011	6/7/2011	6/7/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/7/2011	6/7/2011	6/7/2011
Volatile Organic Compounds (mg/kg) (SW846 8260B)																				
1,2,4-Trimethylbenzene	3.93	10,100	373	3.94	0.0095 PX, J	0.00273 PX, J	0.577 PX	ND	0.668	ND	ND	ND	ND	0.0073 PX, J	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.882	10,100	59.6	0.894	0.00723 PX, J	ND	0.211 PX	ND	0.251	ND	ND	ND	ND	0.00261 PX, J	ND	ND	ND	ND	ND	ND
2-Butanone	7.3	---	---	---	0.077 PX, J	ND	ND	ND	ND	ND	ND	ND	ND	0.127 PX, J	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	19.5	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11 PX, J	ND	ND	ND	ND	ND	ND
Acetone	4.2	807,000	115,000	10.6	0.141 PX, J	0.23 PX, J	0.347 PX, J	0.458 PX	6.33	0.242 PX	0.0581 J	ND	ND	2.06 PX, J	ND	0.164 PX, J	0.167 PX, J	ND	ND	ND
Benzene	0.0561	763	7.51	0.0655	ND	ND	0.0148 PX, J	ND	ND	ND	ND	ND	ND	ND	ND	0.00281 PX, J	ND	ND	ND	ND
Carbon disulfide	6.26	95,600	172	7.9	0.0162 PX, J	ND	0.0766 PX, J	ND	ND	0.00543 PX	ND	ND	ND	ND	ND	0.00677 PX, J	ND	ND	ND	ND
Chlorobenzene	0.0766	17,600	416	2.05	ND	ND	0.396 PX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	39.9	8,660	11.8	0.36	ND	ND	0.017 PX, J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	10.5	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.0766	678	1.63	0.798	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	0.204	2,060	3.78	0.227	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00366 PX, J	ND	ND	ND	ND	ND	ND
Ethylbenzene	39.9	97,500	5,200	41.1	0.00335 PX, J	ND	1.86 PX	ND	0.603	ND	ND	ND	ND	ND	ND	0.00568 PX, J	ND	ND	ND	ND
Isopropylbenzene	10.5	91,100	267	27.9	0.00488 PX, L1, J	ND	0.184 PX, L1, J	ND	0.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	0.398	14,900	615	0.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	0.0176	3,700	77	0.0278	0.0167 PX, J	ND	0.0398 PX, J	ND	ND	ND	ND	ND	ND	0.0531 PX, J	ND	0.0197 PX, J	ND	ND	ND	ND
Naphthalene	0.325	119	443	0.327	0.00641 PX, J	ND	1.2 PX	ND	0.453	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	41.6	35,900	3,080	41.8	ND	ND	0.31 PX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	13	35,900	1,060	13.2	ND	ND	ND	ND	0.193	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	271	---	---	---	0.00567 PX, J	0.00618 PX, J	2.3 PX	ND	0.168	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	35.2	35,900	1,710	35.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	11.7	186,000	31,500	11.9	ND	ND	1.3 PX	ND	1.01	ND	ND	ND	ND	0.00358 PX, J	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.141	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	29.8	81,100	13,800	31.6	0.0041 PX, J	ND	2.21 PX	ND	0.575	ND	ND	0.0046 J	ND	0.00283 PX, J	ND	0.0149 PX, J	ND	0.00188 J	ND	ND
Trichlorofluoromethane	7.35	254,000	181	29.6	0.0122 PX, J	ND	0.0452 PX, J	ND	1.27	ND	ND	ND	ND	0.00524 PX, J	ND	ND	ND	ND	ND	ND
Xylenes, total	24.7	104,000	663	652	0.0205 PX, J	0.0074 PX, J	1.66 PX	ND	2.27	ND	ND	ND	ND	ND	ND	0.00854 PX, J	ND	ND	ND	ND
Semi-Volatile Organic Compounds (mg/kg) (SW846 8270C)																				
1-Methylnaphthalene	---	---	---	---	ND	ND	ND	ND	0.139	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	7.55	3,590	16,400	7.57	ND	ND	ND	0.0993	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/4-Methylphenol	---	---	---	---	ND	ND	1.46	1.71	5.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	174	30,700	1,720,000	175	ND	ND	0.118	ND	0.326	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	175	54,100	2,150,000	175	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	3,060	154,000	10,100,000	3,060	ND	ND	0.335	0.207	0.531	ND	ND	ND	ND	ND	ND	0.821 J	ND	ND	ND	ND
Benzo (a) anthracene	6.12	21	2,310,000	6.12	ND	ND	0.479	0.0937	0.523	ND	ND	0.105 J	ND	ND	ND	3.35 J	ND	ND	ND	ND
Benzo (a) pyrene	0.62	2	933,000	30.4	ND	ND	0.451	ND	0.331	ND	ND	0.0932 J	ND	ND	ND	3.34 J	ND	ND	ND	ND
Benzo (b) fluoranthene	6.19	21	909,000	11.5	ND	ND	ND	0.119	0.531	ND	ND	0.076 J	ND	ND	ND	3.48 J	ND	ND	ND	ND
Benzo (g,h,i) perylene	1,720	16,500	1,240,000,000	6,210	ND	ND	0.412	ND	0.228	ND	ND	0.0705 J	ND	ND	ND	2.57 J	ND	ND	ND	ND
Benzo (k) fluoranthene	62	211	19,900,000	118	ND	ND	0.783	ND	0.331	ND	ND	ND	ND	ND	ND	3.25 J	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	347	1,230	11,700,000,000	13,500	23.5 J	ND	4.9	0.472	10.5	ND	ND	ND	ND	95.1 J	ND	ND	ND	0.378 J	ND	ND
Butyl benzyl phthalate	12,200	123,000	2,830,000,000	13,300	ND	ND	0.818	ND	0.865	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	599	2,040	3,120,000	612	ND	ND	0.525	0.114	0.676	ND	ND	0.107 J	ND	ND	ND	4.01 J	ND	ND	ND	ND
Dibenz (a,h) anthracene	1	2	7,440,000	2	ND	ND	0.152	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	1,120	5,680,000	142,000,000	1,450	36.2 J	ND	2.87	ND	12.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	---	---	---	---	ND	ND	ND	ND	0.861	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	75.8	23,200	2,410,000	76.3	ND	ND	1.61	ND	1.84	ND	ND	ND	ND	23.5 J	ND	ND	ND	ND	ND	ND
Fluoranthene	2,280	21,900	191,000,000	2610	ND	ND	1.16	0.229	1.52	ND	ND	0.123 J	ND	ND	ND	8.39 J	ND	ND	ND	ND
Fluorene	211	21,300	6,060,000	211	ND	ND	0.175	ND	0.361	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-cd) pyrene	3.77	13	50,500,000	19.7	ND	ND	0.296	ND	0.193	ND	ND	ND	ND	ND	ND	2.3 J	ND	ND	ND	ND
Naphthalene	0.325	119	443	0.327	ND	ND	0.139	0.082	0.256	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	158	28,200	2,520,000	158	ND	ND	0.96	0.296	1.5	ND	ND	0.0753 J	ND	ND	ND	4.49 J	ND	ND	ND	ND
Phenol	25.6	128,000	407,000	35.5	ND	ND	ND	ND	2.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	1,500	16,400	197,000,000	1500	ND	ND	1.26	0.213	1.33	ND	ND	0.204 J	ND	ND	ND	6.9 J	ND	ND	ND	ND
Metals Analysis (mg/kg) (SW846 6010B/7471A)																				
Arsenic	3.89	15.9	---	7.23	ND	7.76 J	14.1	7.8	15.4	7.62	5.37 J	5.75 J	8.91 J	17.4 J	8.75 J	5.89 J	7.47 J	3.61 J	10.5 J	6.51 J
Barium	2,040	181,000	---	2,040	932 J	150 J	6,740	204	709	167	133 J	213 J	91.9 J	2380 J	96.3 J	136 J	131 J	86.6 J	94.8 J	130 J
Cadmium	9.31	74.8	---	9.32	42.9 J	ND	137	ND	28.9 J, M7	ND	ND	ND	ND	31.3 J	ND	7.78 J	ND	ND	ND	ND
Chromium	74,600	472,000	---	4,470,000	249 J	19.5 J	401	22.8	213 J, MHA	25.9	19.3 J	12.6 J	20.7 J	375 J	17.4 J	75.8 J	17.9 J	12.1 J	20.7 J	19.3 J
Lead	3.74	660	---	3.77	3270 J	14.2 J	2,920	12.3	2,000	78.4	13.5 J	362 J	13.8 J	3,580 J	27.6 J	515 J	12.6 J	75.1 J	9.4 J	8.13 J
Selenium	6.27	4,780	---	6.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	16.2	4,480	---	16.4	ND	ND	2.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	2.19	630	512	---	0.51 J	ND	0.91	ND	0.29	ND	ND	ND	ND	1.6 J	ND	0.2 J	ND	0.13 J	ND	ND
8015B)																				
Diesel	4,150	1,410,000	109,000	2,940,000,000	3350 J	42.8 J	2210	106	1,620	8.94	ND	ND	ND	4950 J	6.54 J	602 J	ND	6.51 J	ND	ND
TPH - Oil Range	124,000	1,250,000	---	2,940,000,000	6970 J	98.4 J	4260	223	3,070	14.6	ND	5.7 J	ND	6070 J	11.3 J	1,660 J	ND	25.2 J	ND	ND
PCBs (mg/kg) (SW846 8082A)																				
PCB-1242	0.0557	6.94	246	0.0558	ND	ND	2.21	ND	4.04	ND	ND	ND	ND	16.9 J	ND	ND	ND	0.082 J	ND	ND
PCB-1248	1.08	7.21	2,420	1.44	ND	ND	ND	ND	ND	0.0808	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	1.1	7.29	6,370	2.42	6.55 J	ND	0.911	ND	4.18	ND	ND	ND	ND	3.94 J	ND	0.466 J	ND	0.0492 J	ND	ND
PCB-1260	1.11	7.38	48,000	33.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
Only detections above reporting limit are shown
NS: Not Sampled
ND : Not Detected
TP: Test Pit

26	Concentrations exceeding the MRBCA lowest default target levels
	Concentrations exceeding MRBCA non-residential soil target levels
	Concentrations exceeding the soil concentration protective of domestic use of groundwater pathwa

MRBCA Table B-7 Tier I Risk-Based Target Levels For Non-residential land use soil Type 3 (Clayey)
Industrial Surficial Soils within depths of 0-3 ft. below ground surface are compared to the ingestion, inhalation (Vapor Emissions and pa
Industrial Subsurface Soil within depths of 3 ft. and greater are compared to the indoor inhalation of vapor emissions.
J: Estimated value.
M7: The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
M8: The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA: Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Bla
PX: Sample for VOA analysis not received in preserved VOA vials or Encore or similar sampling device.
L: Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not dete
L1: Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.

Table 4-2
Groundwater and Surface Water Sampling Results (Hits Only)
9th and Delmar
Festus, Missouri

Analyte	MRBCA Lowest Default Target Levels	Up-gradient Piezometer	REC 1 Piezometer East of Tunnel	REC 7 Piezometer Down Gradient of Rail Scale	Surface Water Down Gradient Beneath 9th Street Bridge
Client Sample ID:		**F-UG**	**F-01 A**	**F-07**	**S W D G**
Lab Sample ID:		**NUF1681-02**	**NUF1697-03**	**NUF1681-03**	**NUF1681-01**
Date Sampled:		**6/8/2011**	**6/8/2011**	**6/8/2011**	**6/8/2011**
Matrix:		**Groundwater**	**Groundwater**	**Groundwater**	**Surface Water**
Volatile Organic Compounds (µg/L) (SW846 8260B)					
1,2,4-Trimethylbenzene	7.06	ND	**15.1 J**	ND	ND
1,3,5-Trimethylbenzene	7.05	ND	4.41 J	ND	ND
Acetone	2970	ND	ND	ND	ND
Ethylbenzene	700	ND	3.58 J	ND	ND
Methyl tert-Butyl Ether	128	ND	3.84 J	ND	ND
Naphthalene	1.09	ND	**6.26 J**	ND	ND
n-Propylbenzene	115	ND	1.34 J	ND	ND
Toluene	1000	ND	1.54 J	ND	ND
Xylenes, total	10000	ND	25 J	ND	ND
Semi-Volatile Organic Compounds (µg/L) (SW846 8270D)					
2-Methylnaphthalene	11.7	NS	2.58 J	ND	ND
Naphthalene	1.09	NS	3.90 J	ND	ND
Metals Analysis (mg/L) (SW846 6010B)					
Barium	2	0.285 J	0.259 J	0.106 J	0.144 J
Cadmium	0.005	ND	ND	0.0017 J	ND
Chromium	0.1	ND	ND	ND	ND
Lead	0.015	**0.0456 J**	ND	ND	0.0087 J
Mercury	0.0507	ND	ND	ND	ND
Total Petroleum Hydrocarbons (mg/L) (SW846 8015)					
TPH - Gasoline Range	18.1	ND	0.145 J	ND	ND
TPH - Diesel Range	34.3	NS	13.2 J	0.749 J	0.295 J
TPH - Oil Range	31.8	NS	6.3 J	0.408 J	0.249 J

Notes:
Only detections above reporting limit are shown
All MRBCA risk-based target levels are from Table B-1; lowest default target levels
NS = Not Sampled (insufficient volume)
ND = Not Detected
26: Concentrations exceeding MRBCA lowest default target levels
J: Sample is estimated. Result is less than reporting limit

Table 4-3
Decommissioned Baler Sump Water and Oil Results (Hits Only)
9th and Delmar
Festus, Missouri

Analyte	MRBCA Lowest Default Target Levels	REC 1 (Liquid in Decommissioned Baler Sump)		REC 1 (Liquid in Decommissioned Baler Tunnel)	
Client Sample ID:		**D Baler**	**D Baler**	**Tunnel**	**Tunnel**
Lab Sample ID:		**NUF1697-01**	**NUF1697-05**	**NUF1697-02**	**NUF1697-04**
Date Sampled:		**6/8/2011**	**6/8/2011**	**6/8/2011**	**6/8/2011**
Matrix:		**Sump Water**	**Oil**	**Sump Water**	**Oil**
Volatile Organic Compounds (µg/L) (SW846 8260B)					
1,2,4-Trimethylbenzene	7.06	ND	NS	NS	ND
1,3,5-Trimethylbenzene	7.05	ND	NS	NS	ND
Acetone	2970	129 J	NS	NS	ND
Ethylbenzene	700	ND	NS	NS	ND
Methyl tert-Butyl Ether	128	ND	NS	NS	ND
Naphthalene	1.09	ND	NS	NS	ND
n-Propylbenzene	115	ND	NS	NS	ND
Toluene	1000	ND	NS	NS	ND
Xylenes, total	10000	ND	NS	NS	ND
Semi-Volatile Organic Compounds (µg/L) (SW846 8270D)					
2-Methylnaphthalene	11.7	ND	NS	NS	ND
Bis(2-ethylhexyl)phthalate	0.006	ND	NS	NS	**689000 J**
Metals Analysis (mg/L) (SW846 6010B)					
Barium	2	0.257 J	NS	1.69 J	NS
Cadmium	0.005	0.0049 J	NS	**0.0196 J**	NS
Chromium	0.1	0.0068 J	NS	0.0164 J	NS
Lead	0.015	**0.524 J**	NS	**1.88 J**	NS
Mercury	0.0507	0.00113 J	NS	0.00285 J	NS
Total Petroleum Hydrocarbons (mg/L) (SW846 8015)					
TPH - Gasoline Range	18.1	ND	NS	NS	NS
TPH - Diesel Range	34.3	44200 J, S10	NS	NS	NS
TPH - Oil Range	31.8	88200 J	NS	NS	NS
PCBs (mg/kg) (SW846 8082A)					
PCB - 1242	0.0000593	NS	**133 J**	NS	NS

Notes:
Only detections above reporting limit are shown
All MRBCA risk-based target levels are from Table B-1; lowest default target levels
NS = Not Sampled (insufficient volume)
ND = Not Detected
26: Concentrations exceeding MRBCA lowest default target levels
J: Sample is estimated. Result is less than reporting limit
S10: Insufficient sample available for reanalysis.

Table 4-4
Shapiro Brothers, Inc.
Investigation Derived Waste
TCLP Sampling Results
9th and Delmar Avenue
Festus, Missouri

Analyte	EPA Toxicity Limits	Investigative Derived Waste
Client Sample ID		**F-IDW**
Lab Sample ID		**NUF1686-07**
Date Sampled		**6/8/2011**
Matrix		**Soil Sample**
TCLP Metals (mg/L) USEPA Method 1311		
Arsenic	5	ND
Barium	100	2.13 J
Cadmium	1	0.079 J
Chromium	5	ND
Lead	5	3.43 J
Selenium	1	ND
Silver	5	ND
Mercury	0.2	ND

Notes:
* Soil sample was collected from a composite of all soil cuttings
ND = Not Detected
J = Estimated Value

Table 5-1
Liability Evaluation for Site Remediation
9th and Delmar Avenue
Festus, Missouri

Location	REC No.	Sample Points	Analyte List (COCs are shown in boldface)	Area (sq ft)	Avg. Impact Thickness (ft)	Estimated Volume (cu yd)	Housekeeping / Stormwater Improvements	Baler Demolition / TSCA-Closure *	Soil Remediation Cost Range($)			GW Remediation Cost Range($)			Asbestos Liability **	
									Low	High	Most Likely	Low	High	Most Likely	Low	High
Decommissioned Baler	1	F-01A, F-01B, F-02	***VOCs***, SVOCs, **RCRA metals**, PCBs and TPH	15,000	3	1,667	$0	$542,000	$91,903	$275,708	$183,806	$0	$150,000	$50,000		
Shredder Area	2	F-04A, F-04C	VOCs, SVOCs, **RCRA metals**, PCBs and TPH	22,500	3	2,500	$20,000		$137,854	$413,563	$275,708	$0	$0	$0		
Scrap Piles	3	F-04A, F-04B	VOCs, SVOCs, RCRA metals, PCBs and TPH	0	0	0	$10,000		$0	$0	$0	$0	$0	$0		
Shear Area	4	F-04B	VOCs, SVOCs, RCRA metals, PCBs and TPH	0	0	0	$20,000		$0	$0	$0	$0	$0	$0		
Torch Cutting Area	5	F-05A, F-05B	VOCs, *SVOCs*, **RCRA metals**, *PCBs* and TPH	10,000	3	1,111	$0		$61,269	$183,806	$122,537	$0	$0	$0		
AST Maintenance Building	6	F-06	VOCs, SVOCs, **RCRA metals**, PCBs and TPH	2,500	3	278	$0		$15,317	$45,951	$30,634	$0	$0	$0		
Rail Scale Area	7	F-07, F-07A	VOCs, *SVOCs*, **RCRA metals**, *PCBs* and TPH	12,000	3	1,333	$0		$73,522	$220,567	$147,044	$0	$0	$0		
Railcar Processing Area	8	F-03A, F-03B, F-03C, F-08	VOCs, **SVOCs**, **RCRA metals**, PCBs and TPH	24,000	3	2,667	$0		$147,044	$441,133	$294,089	$0	$0	$0		
Vapor Encroachment Conditions	9	F-UG, F-01A, F-07	**VOCs**, SVOCs, RCRA metals, PCBs and TPH			0	$5,000		$0	$0	$0	$0	$0	$0		
Storm Water Improvements			Levels of COCs detected in down gradient sediment	0	0	0	$100,000		$0	$0	$0					
				86,000	Subtotal		$155,000	$542,000	$526,909	$1,580,728	$1,053,819	$0	$150,000	$50,000	$3,300	$6,000
				43,560	Buildings/Concrete											
Remaining Site less specific areas already addressed				523,840	15 acres less hardscape											
5% impacted		visual	TPH, VOCs, SVOCs, RCRA Metals	21,892	2	1,622			$89,419	$268,258	$178,839					
Subtotal							$155,000	$542,000	$616,329	$1,848,986	$1,232,657	$0	$150,000	$50,000	$3,300	$6,000
Engineering/Administration (5%)							$7,750	$27,100	$30,816	$92,449	$61,633	$0	$7,500	$2,500	$165	$300
TOTAL							**$162,750**	**$569,100**	**$647,145**	**$1,941,435**	**$1,294,290**	**$0**	**$157,500**	**$52,500**	**$3,465**	**$6,300**

*** - bold value** is a soil COC; ***italic bold value*** is a groundwater COC
**** -** supporting documentation provided in the liability-based asbestos report (June 2011)
[a] - refer to Figure 5-2 for Baler Demolition / TSCA-Closure Cost Estimate

Housekeeping - labor and materials to perform limited surface scraping to improve the visual aesthetics of the subject property

Storm Water - Yard Improvements to capture and treat storm water contacting hazardous materials

** - Note concrete capping may be an alternative to excavation of 3 feet of soil for COCs that do not migrate to groundwater. However this would also entail the use of a deed restriction to control future intrusive development in these areas of the site.
Concrete - $3.70 square foot (purchase/install)

2011 Cost Basis

Cost Basis:

Excavation: $10/ cu yd	$10	/ cubic yard	PSC Estimate
Backfill: $20/ cu yd	$20	/ cubic yard	PSC Estimate
Transportation (6 miles r.t.)	$20	/ cubic yard	12 ton tandem; 30 minute load; 90 minute rt; $85/hr; 1.4 tons/cubic yard
Special Waste Disposal	$35	/ cubic yard	$25 ton @1.4 tons/cubic yard Milam Landfill, E. St. Louis, IL (July 2011) 618-271-6788
TOTAL COST	**$85**	**/ cubic yard**	Special Waste unit cost

Groundwater : Throughout portions of the site, natural materials consisting of silty and sandy clay and sandstone along with fill material (construction purposes) consisting of re-worked silty clay and imported cobble sized limestone, were observed. Silty and sandy clay, typical for decomposed bedrock, were encountered above sandstone bedrock. Groundwater in this clay was not laterally continuous. This would help minimize the spread of impact. Groundwater sample F-UG contained concentrations of lead above MCLs. Sample F-01A contained levels of two VOCs that exceeded the MRBCA standards.

A 30% scope contingency is included in soil remediation estimates.
Additional sampling would be necessary to delineate footprint of impacted soil areas, plume delineation and additional potential groundwater impact for which there is currently no groundwater data available.
Soil liability is provided as a ± 50% of the estimated remediation cost. Soil liability currently includes volume estimates for the disposal of scrap material that may have a potential recycle value.
Potential environmental site liability only includes those items listed and does not include costs for items that were not clearly visible (hidden beneath scrap piles) or asbestos-related issues.

Table 5-2
Baler Building Demolition / TSCA-Closure Cost Estimate

Shapiro Metals
Ninth & Delmar Avenue
Festus MO.

Item No.	Description of Proposed Work	Estimated Time Frame (days)	TSCA-Scrap / Residues / Soil to Emile, AL. ($)
1	Waste Stream Characterization (Equipment, Concrete Cores, Wipe Sampling)	5	$15,000
2	TSCA Work Plan Preparation	5	$15,000
3	Permits / Health and Safety Plan	10	$10,000
4	Mobilization	1	$5,000
5	Skim off Oil on top of water. Assume 500 gallons of TSCA-oils + T&D	2	$13,000
6	Pump out water, ship to Treatment Facility, estimated 85,000 gallons (non-TSCA)	2	$95,000
7	Construct Decon Pad	1	$4,500
8	Clean 1 foot of sludge from sump, (Vac Truck) (32 cubic yards)	1	$13,000
9	Clean out sludge from tunnel (5 cubic yards)	1	$7,000
10	Gross Clean entire building, pressure wash. 5,000 gallons rinsate. (TSCA Waste)	2	$65,000
11	Confirmation Wipe samples for equipment & Walls, Floor	1	$10,000
12	Remove all equipment & Pipes from building, dissemble scrap 50%	3	$14,000
13	Double Wash, Double rinse equipment at decon pad	2	$32,000
14	Remove all equipment & Pipes from building, ship all PCB contaminated equipment to Emile AL. Assume 50% is impacted	3	$16,000
15	Prepare equipment& Steel beams for disposal to Emile (4'x4') with torch	1	$4,500
16	Prepare steel for salvage at PSC Metals, use their equipment.	1	$4,500
17	Demo top portion of Building. 70 tons const debris T&D	1	$8,000
18	Demo bottom building slab, sump, steps; ship as TSCA-waste (350 tons) 1' thick foundation and sump walls (assume footings do not require removal)	4	$60,000
19	Excavate Tunnel, decon metal,	3	$14,000
20	Take wipe samples on metal for salvage	1	$2,000
21	Excavate 3 ft of impacted soil under building and entire length of tunnel, estimated 620 tons, ship as impacted waste to landfill.	3	$83,000
22	Backfill excavated areas. 1,300 bank yards	3	$26,000
22	Verification Sampling	1	$10,000
23	Demobilization	1	$5,000
24	Scrap salvage value (20 tons @ $250/ton)		($5,000)
25	Closure Report	1	$15,000
	Estimated Clean-up Totals		$541,500

No as-built drawings were available for use in estimating quantities

Quantities are approximate based upon take offs from aerial photographs and limited Phase 2 SI notes

One oil sample from the sump was analyzed and contained 133 ppm PCBs. No additional waste stream characterization was available on the concentration of PCBs present on equipment, concrete, sediment/sludge, and soil beneath structures. Engineering jusdgement was used to estimate the quantity of TSCA-waste.

It was assumed that the hydraulic oil and other residual liquids contained in the baler, baler reservoir and supporting equipment were removed and properly disposed when the baler was decommissioned.

It was assumed that the sump will not require additional dewatering after intial oil/water removal and gross equipment decontamination

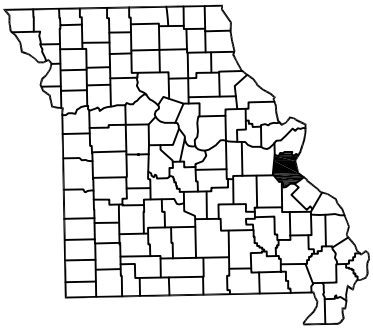
Assumes characterization and demolition plans will be approved by the Agency with limited revisions; additional meetings are not included in the cost estimate

Assumes tunnel constructed of RR cars with 1/4" steel, 65' long and 8' diameter = 8.5 tons of steel (round to 10 tons)

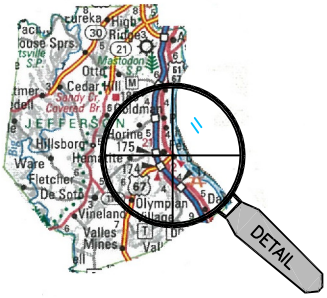
List of Figures

Figure Number	Figure Name
2-1	Site Location Map
2-2	Site Features Map
3-1	Sample Locations Map
3-2	Decommissioned Baler Sump and Tunnel Map
3-3	Rail Car Processing Area Map

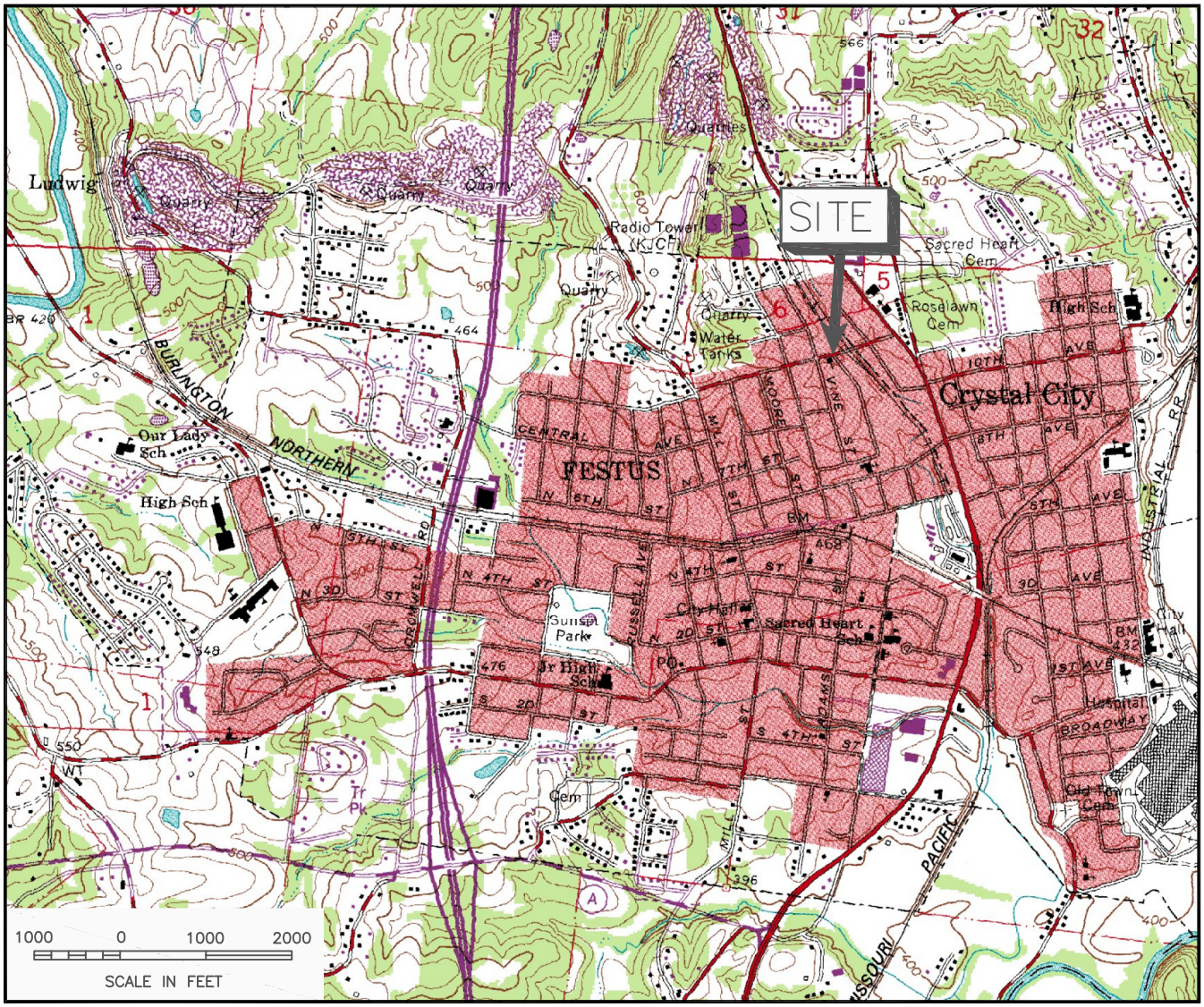
MISSOURI



JEFFERSON COUNTY



AREA IN DETAIL



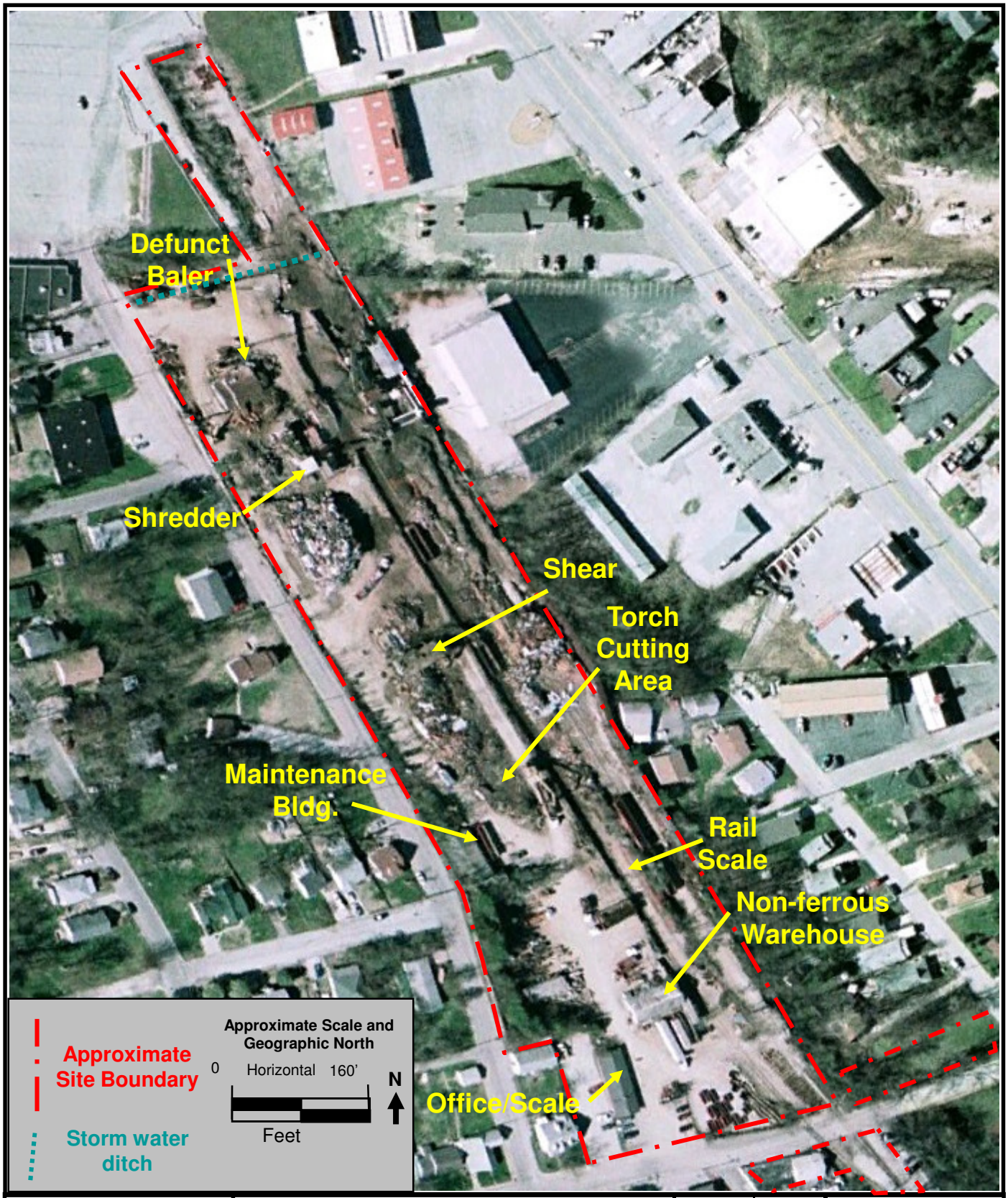
Modified from U.S. Geological Survey, Festus, Missouri, quadrangle, Photorevised 1982.

SCALE IS VARIABLE

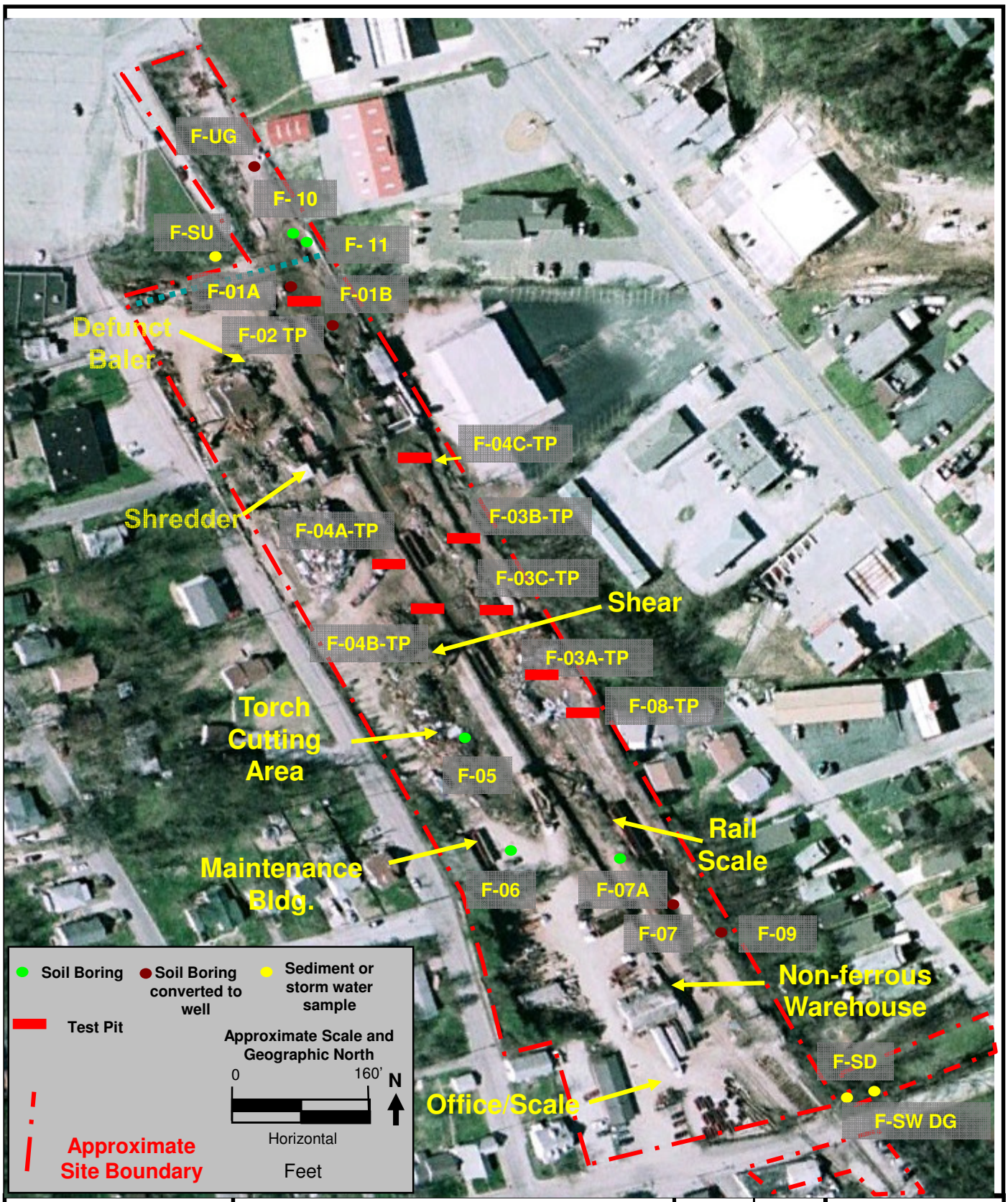
N

TITLE:	DWN:	DES.:	PROJECT NO.: 62411040030
SITE LOCATION MAP	TMM	JG	PSC METALS FESTUS, MISSOURI
	CHKD:	APPD:	
	DATE: 5/2/11	REV.: 0	FIGURE 2–1

COL. 62411\040030A-001



PSC	**Site Features Map** **9th & Delmar** **Festus, Missouri**	DWN: JLG	PGRM: APB	Project Number: 624-1104-0030
		DATE: 4/28/2011	REV: 0	**FIGURE 2-2**



PSC	Final Sampling Locations 9th & Delmar Festus, Missouri	DWN: JLG	PGRM: APB	Project Number: 624-1104-0030
		DATE: 06/30/2011	REV: 0	FIGURE 3-1

Approximate Property Boundary

Boring Location

Boring/Piezometer Location

Sediment/Surface Water Sample Location

Test Pit Location

0 50 100

Approximate Scale

N

PSC

REC 1 Decommisioned Baler Sump and Access Tunnel
9th & Delmar
Festus, Missouri

DWN:	PGRM:	Project No. 624-1104-0030
JLG	APB	
Date: 4/28/2011	Rev: 0	**Figure 3-2**

Boring Location

Boring/Piezometer Location

Test Pit Location

Approximate Property Boundary

0 50 100

Approximate Scale

N

PSC	**Rail Car Processing Area** **9th & Delmar** **Festus, Missouri**	DWN: JLG Date: 4/28/2011	PGRM: APB Rev: 0	Project No. 624-1104-0030 **Figure 3-3**

APPENDIX A

MRBCA Screening Levels

261.24 Toxicity characteristic.

top

(a) A solid waste (except manufactured gas plant waste) exhibits the characteristic of toxicity if, using the Toxicity Characteristic Leaching Procedure, test Method 1311 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW–846, as incorporated by reference in §260.11 of this chapter, the extract from a representative sample of the waste contains any of the contaminants listed in table 1 at the concentration equal to or greater than the respective value given in that table. Where the waste contains less than 0.5 percent filterable solids, the waste itself, after filtering using the methodology outlined in Method 1311, is considered to be the extract for the purpose of this section.

(b) A solid waste that exhibits the characteristic of toxicity has the EPA Hazardous Waste Number specified in Table 1 which corresponds to the toxic contaminant causing it to be hazardous.

Table 1 —Maximum Concentration of Contaminants for the Toxicity Characteristic

EPA HW No.[1]	Contaminant	CAS No.[2]	Regulatory Level (mg/L)
D004	Arsenic	7440–38–2	5.0
D005	Barium	7440–39–3	100.0
D018	Benzene	71–43–2	0.5
D006	Cadmium	7440–43–9	1.0
D019	Carbon tetrachloride	56–23–5	0.5
D020	Chlordane	57–74–9	0.03
D021	Chlorobenzene	108–90–7	100.0
D022	Chloroform	67–66–3	6.0
D007	Chromium	7440–47–3	5.0
D023	o-Cresol	95–48–7	[4]200.0
D024	m-Cresol	108–39–4	[4]200.0
D025	p-Cresol	106–44–5	[4]200.0
D026	Cresol		[4]200.0
D016	2,4-D	94–75–7	10.0
D027	1,4-Dichlorobenzene	106–46–7	7.5
D028	1,2-Dichloroethane	107–06–2	0.5
D029	1,1-Dichloroethylene	75–35–4	0.7
D030	2,4-Dinitrotoluene	121–14–2	[3]0.13
D012	Endrin	72–20–8	0.02
D031	Heptachlor (and its epoxide)	76–44–8	0.008
D032	Hexachlorobenzene	118–74–1	[3]0.13
D033	Hexachlorobutadiene	87–68–3	0.5
D034	Hexachloroethane	67–72–1	3.0
D008	Lead	7439–92–1	5.0
D013	Lindane	58–89–9	0.4

D009	Mercury	7439–97–6	0.2
D014	Methoxychlor	72–43–5	10.0
D035	Methyl ethyl ketone	78–93–3	200.0
D036	Nitrobenzene	98–95–3	2.0
D037	Pentrachlorophenol	87–86–5	100.0
D038	Pyridine	110–86–1	[3]5.0
D010	Selenium	7782–49–2	1.0
D011	Silver	7440–22–4	5.0
D039	Tetrachloroethylene	127–18–4	0.7
D015	Toxaphene	8001–35–2	0.5
D040	Trichloroethylene	79–01–6	0.5
D041	2,4,5-Trichlorophenol	95–95–4	400.0
D042	2,4,6-Trichlorophenol	88–06–2	2.0
D017	2,4,5-TP (Silvex)	93–72–1	1.0
D043	Vinyl chloride	75–01–4	0.2

[1]Hazardous waste number.

[2]Chemical abstracts service number.

[3]Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.

[4]If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/l.

[55 FR 11862, Mar. 29, 1990, as amended at 55 FR 22684, June 1, 1990; 55 FR 26987, June 29, 1990; 58 FR 46049, Aug. 31, 1993; 67 FR 11254, Mar. 13, 2002; 71 FR 40259, July 14, 2006]

Table B-1
Lowest Default Target Levels
All Soil Types and All Pathways

Chemicals of Concern	Soil [mg/kg]		Groundwater [mg/L]	
VOCs and SVOCs				
Acenaphthene	1.74E+02	GWP	1.65E-01	DWG
Acenaphthylene	1.75E+02	GWP	1.70E-01	DWG
Acetone	4.20E+00	GWP	2.97E+00	DWG
Acetonitrile	2.06E-01	GWP	5.64E-02	DWG
Acrylamide	1.31E-03	GWP	1.49E-04	DWG
Acrylic acid	1.16E+01	GWP	7.77E+00	DWG
Acrylonitrile	6.92E-04	GWP	4.68E-04	DWG
Allyl alcohol	4.45E-01	GWP	7.78E-02	DWG
Allyl chloride	3.86E-02	GWP	4.40E-03	DWG
Aniline	2.90E-01	GWP	1.08E-01	DWG
Anthracene	3.06E+03	GWP	6.96E-01	DWG
Aroclor 1016	3.86E+00	SDC	1.96E-04	DWG
Aroclor 1221	9.75E-02	GWP	1.13E-04	DWG
Aroclor 1242	5.57E-02	GWP	5.93E-05	DWG
Aroclor 1248	1.08E+00	SDC	3.50E-05	DWG
Aroclor 1254	1.10E+00	SDC	3.06E-05	DWG
Aroclor 1260	1.11E+00	SDC	3.35E-05	DWG
Azobenzene	6.82E+00	GWP	8.61E-04	DWG
Benzene	5.61E-02	GWP	5.00E-03	DWG
Benzidine	2.11E-02	SDC	2.88E-06	DWG
Benzo(a)anthracene	6.12E+00	GWP	1.03E-04	DWG
Benzo(a)pyrene	6.20E-01	SDC	1.02E-05	GDC
Benzo(b)fluoranthene	6.19E+00	SDC	6.27E-05	DWG
Benzo(g,h,i)perylene	1.72E+03	SDC	2.64E-02	DWG
Benzo(k)fluoranthene	6.20E+01	SDC	6.46E-04	DWG
Benzoic acid	8.48E+01	GWP	6.00E+01	DWG
Benzyl alcohol	1.44E+01	GWP	4.63E+00	DWG
1,1-Biphenyl	3.07E+01	GWP	1.46E-01	DWG
Bis(2-chloroethyl)ether	4.49E-04	GWP	1.23E-04	DWG
Bis(2-chloroisopropyl)ether	3.18E-02	GWP	3.23E-03	DWG
Bis(chloromethyl)ether	1.00E-06	GWP	6.50E-07	DWG
Bis(2-ethylhexyl)phthalate	3.47E+02	SDC	6.00E-03	DWG
Bromochloromethane	3.05E-01	GWP	5.44E-02	DWG
Bromodichloromethane	4.72E-01	INH	8.00E-02	DWG
Bromoform	1.15E+00	GWP	8.00E-02	DWG
Bromomethane	1.85E-02	GWP	4.67E-03	DWG
4-Bromophenyl phenyl ether	2.72E-02	GWP	1.07E-05	DWG
n-Butylbenzene	4.16E+01	GWP	9.89E-02	DWG
sec-Butylbenzene	3.52E+01	GWP	1.06E-01	DWG
tert-Butylbenzene	3.41E+01	GWP	1.03E-01	DWG

DWG: Domestic water use of groundwater

GDC: GW dermal contact pathway

GWP: Protection of domestic groundwater use pathway

INH: Indoor inhalation pathway

SDC: Soil direct contact pathway

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-1
Lowest Default Target Levels
All Soil Types and All Pathways

Chemicals of Concern	Soil [mg/kg]		Groundwater [mg/L]	
Butyl benzyl phthalate	1.22E+04	SDC	1.55E+00	DWG
Carbazole	1.33E+01	GWP	2.64E-02	DWG
Carbon disulfide	6.26E+00	INH	5.27E-01	DWG
Carbon tetrachloride	7.96E-02	INH	5.00E-03	DWG
p-Chloroaniline	6.77E-01	GWP	6.06E-02	DWG
Chlorobenzene	1.94E+00	GWP	5.58E-02	DWG
Chloroethane	2.81E-01	GWP	4.85E-02	DWG
Chloroform	7.66E-02	INH	8.00E-02	DWG
Chloromethane	2.04E-01	INH	1.83E-02	DWG
2-Chloronaphthalene	5.58E+01	GWP	2.33E-01	DWG
2-Chlorophenol	9.63E-01	GWP	1.63E-02	DWG
4-Chlorophenyl phenyl ether	2.06E-02	GWP	1.06E-05	DWG
2-Chlorotoluene	3.88E+00	GWP	6.19E-02	DWG
4-Chlorotoluene	2.35E-02	GWP	3.10E-04	DWG
Chrysene	5.99E+02	SDC	1.03E-02	DWG
Dibenzo(a,h)anthracene	6.20E-01	SDC	4.21E-06	DWG
Dibenzofuran	6.56E+00	GWP	5.67E-03	DWG
Dibromochloromethane	8.70E-01	GWP	8.00E-02	DWG
1,2-Dibromo-3-chloropropane	1.10E-03	GWP	2.00E-04	DWG
Dibutyl phthalate	5.46E+03	GWP	1.08E+00	DWG
1,2-Dichlorobenzene	5.61E+01	GWP	6.00E-01	DWG
1,3-Dichlorobenzene	8.39E+00	GWP	8.93E-02	DWG
1,4-Dichlorobenzene	7.02E+00	GWP	7.50E-02	DWG
3,3-Dichlorobenzidine	1.30E-01	GWP	1.19E-03	DWG
Dichlorodifluoromethane	1.49E+00	INH	2.20E-01	DWG
1,1-Dichloroethane	1.80E-01	GWP	2.49E-02	DWG
1,1-Dichloroethylene	1.08E-01	GWP	7.00E-03	DWG
cis-1,2-Dichloroethylene	5.21E-01	GWP	7.00E-02	DWG
trans-1,2-Dichloroethylene	1.10E+00	GWP	1.00E-01	DWG
2,4-Dichlorophenol	9.03E-01	GWP	3.89E-02	DWG
1,2-Dichloropropane	4.20E-02	GWP	5.00E-03	DWG
1,3-Dichloropropene	5.06E-02	GWP	4.31E-03	DWG
Di(2-ethylhexyl)adipate	3.88E+03	SDC	4.00E-01	DWG
Diethyl phthalate	5.24E+02	GWP	1.19E+01	DWG
Diisopropyl ether (DIPE)	4.12E+00	GWP	3.51E-01	DWG
2,4-Dimethylphenol	9.37E+00	GWP	2.89E-01	DWG
2,6-Dimethylphenol	2.25E+00	GWP	9.39E-03	DWG
Dimethyl phthalate	1.12E+03	GWP	1.54E+02	DWG
1,3-Dinitrobenzene	2.62E-02	GWP	1.53E-03	DWG
2,4-Dinitrophenol	4.08E-02	GWP	3.08E-02	DWG

Notes:

DWG: Domestic water use of groundwater

GDC: GW dermal contact pathway

GWP: Protection of domestic groundwater use pathway

INH: Indoor inhalation pathway

SDC: Soil direct contact pathway

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-1
Lowest Default Target Levels
All Soil Types and All Pathways

Chemicals of Concern	Soil [mg/kg]		Groundwater [mg/L]	
2,4-Dinitrotoluene	3.25E-02	GWP	2.09E-03	DWG
2,6-Dinitrotoluene	1.12E-02	GWP	9.64E-04	DWG
4-Amino-2,6-dinitrotoluene	1.37E-01	GWP	2.47E-03	DWG
2-Amino-4,6-dinitrotoluene	2.05E-01	GWP	2.41E-03	DWG
Di-n-octylphthalate	7.58E+01	GWP	2.13E-01	DWG
1,4-Dioxane	2.35E-01	GWP	6.10E-02	DWG
Diphenylamine	2.80E+01	GWP	3.09E-01	DWG
1,2-Diphenylhydrazine	7.20E-02	GWP	7.22E-04	DWG
Ethanol	7.73E+02	GWP	5.15E+02	DWG
Ethylbenzene	3.99E+01	GWP	7.00E-01	DWG
Ethylene dibromide (EDB)	4.73E-04	GWP	5.00E-05	DWG
Ethylene dichloride (EDC)	2.06E-02	GWP	5.00E-03	DWG
Ethylene glycol	6.00E+01	GWP	3.13E+01	DWG
Ethylene thiourea	3.51E-03	GWP	1.25E-03	DWG
Ethyl-tert-butyl-ether (ETBE)	1.06E-01	GWP	1.44E-02	DWG
Fluoranthene	2.28E+03	SDC	1.64E-01	DWG
Fluorene	2.11E+02	GWP	1.03E-01	DWG
Formaldehyde	2.42E-02	GWP	1.47E-02	DWG
n-Hexane	1.92E+00	INH	1.27E-01	INH
Hexachlorobenzene	2.91E+00	SDC	2.23E-04	GDC
Hexachlorobutadiene	1.60E+01	GWP	2.00E-03	DWG
Hexachlorocyclopentadiene	2.43E+01	SDC	2.73E-02	INH
Hexachloroethane	2.84E+00	GWP	1.06E-02	DWG
Hexachlorophene	4.25E-01	GWP	5.70E-04	DWG
HMX	5.34E+00	GWP	7.82E-01	DWG
Indeno(1,2,3-cd)pyrene	3.77E+00	SDC	3.82E-05	DWG
Isophorone	5.69E+00	GWP	6.86E-01	DWG
Isopropylbenzene (Cumene)	1.05E+01	INH	3.30E-01	DWG
4-Isopropyltoluene	2.71E+02	GWP	7.86E-01	DWG
Maleic anhydride	7.79E+00	GWP	1.51E+00	DWG
Methanol	2.08E+01	GWP	7.81E+00	DWG
Methyl butyl ketone	1.90E-02	GWP	4.75E-03	DWG
Methyl ethyl ketone	7.30E+00	GWP	3.64E+00	DWG
2-Methyl-4,6-dinitrophenol	2.00E-03	GWP	1.51E-03	DWG
Methylene chloride	1.76E-02	GWP	5.00E-03	DWG
Methyl iodide	2.23E-01	GWP	8.59E-03	DWG
Methyl isobutyl ketone	1.95E+01	GWP	9.15E-01	DWG
2-Methylnaphthalene	7.55E+00	GWP	1.17E-02	DWG
2-Methylphenol	1.11E+01	GWP	7.43E-01	DWG
3-Methylphenol	4.81E+00	GWP	7.42E-01	DWG

Notes:

DWG: Domestic water use of groundwater

GDC: GW dermal contact pathway

GWP: Protection of domestic groundwater use pathway

INH: Indoor inhalation pathway

SDC: Soil direct contact pathway

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-1
Lowest Default Target Levels
All Soil Types and All Pathways

Chemicals of Concern	Soil [mg/kg]		Groundwater [mg/L]	
4-Methylphenol	6.40E-01	GWP	7.43E-02	DWG
Methyl teriary butyl ether (MTBE)	3.98E-01	GWP	1.28E-01	DWG
Methyl-2,4,6-trinitrophenylnitramine	5.57E+00	GWP	1.54E-01	DWG
Naphthalene	3.25E-01	GWP	1.09E-03	DWG
2-Nitroaniline	2.39E-01	GWP	4.48E-02	DWG
3-Nitroaniline	3.29E-02	GWP	4.57E-03	DWG
4-Nitroaniline	9.46E-02	GWP	3.16E-02	DWG
Nitrobenzene	1.98E-02	GWP	1.81E-03	DWG
Nitroglycerin	1.61E-02	GWP	1.07E-03	DWG
2-Nitrophenol	1.34E-01	GWP	3.03E-02	DWG
4-Nitrophenol	5.39E-02	GWP	3.01E-02	DWG
n-Nitrosodimethylamine	4.09E-05	GWP	1.32E-05	DWG
n-Nitrosodi-n-propylamine	4.04E-04	GWP	9.41E-05	DWG
n-Nitrosodiphenylamine	2.20E+01	GWP	1.14E-01	DWG
n-Nitrosopyrrolidine	4.53E-04	GWP	3.19E-04	DWG
2-Nitrotoluene	1.35E-02	GWP	6.04E-04	DWG
3-Nitrotoluene	1.44E+00	GWP	6.49E-02	DWG
4-Nitrotoluene	1.82E-01	GWP	8.18E-03	DWG
Pentachlorobenzene	1.96E+01	GWP	3.28E-03	DWG
Pentachloronitrobenzene	5.19E+00	GWP	1.31E-03	DWG
Pentachlorophenol	8.94E-02	GWP	1.00E-03	DWG
Pentaerythritol tetranitrate	4.74E+03	GWP	5.06E+00	DWG
Phenanthrene	1.58E+02	GWP	7.50E-02	DWG
Phenol	2.56E+01	GWP	4.57E+00	DWG
m-Phenylenediamine	1.39E-01	GWP	9.37E-02	DWG
Polychlorinated biphenyls (PCBs)	2.20E+00	SDC	6.34E-05	GDC
n-Propylbenzene	1.30E+01	GWP	1.15E-01	DWG
Pyrene	1.50E+03	GWP	9.61E-02	DWG
RDX	6.50E-02	GWP	6.07E-03	DWG
Styrene	1.17E+01	GWP	1.00E-01	DWG
1,1,1,2-Tetrachloroethane	7.15E-02	GWP	5.27E-03	DWG
1,1,2,2-Tetrachloroethane	1.05E-02	GWP	6.89E-04	DWG
1,2,4,5-Tetrachlorobenzene	4.84E-01	GWP	2.02E-03	DWG
Tetrachloroethylene	1.41E-01	GWP	5.00E-03	DWG
Tetrahydrofuran	3.00E-02	GWP	2.03E-02	DWG
Tertiary-amyl-methyl-ether (TAME)	6.77E-01	GWP	8.28E-02	DWG
Tertiary-butyl-alcohol (TBA)	5.58E-01	GWP	2.86E-01	DWG
Toluene	2.98E+01	GWP	1.00E+00	DWG
1,2,4-Trichlorobenzene	1.87E+01	GWP	7.00E-02	DWG
1,3,5-Trichlorobenzene	1.72E+00	GWP	1.60E-02	DWG

Notes:

DWG: Domestic water use of groundwater

GDC: GW dermal contact pathway

GWP: Protection of domestic groundwater use pathway

INH: Indoor inhalation pathway

SDC: Soil direct contact pathway

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-1
Lowest Default Target Levels
All Soil Types and All Pathways

Chemicals of Concern	Soil [mg/kg]		Groundwater [mg/L]	
1,1,1-Trichloroethane	4.24E+00	GWP	2.00E-01	DWG
1,1,2-Trichloroethane	4.48E-02	GWP	5.00E-03	DWG
Trichloroethylene	1.41E-01	GWP	5.00E-03	DWG
Trichlorofluoromethane	7.35E+00	INH	6.98E-01	DWG
2,4,5-Trichlorophenol	2.93E+02	GWP	1.22E+00	DWG
2,4,6-Trichlorophenol	6.36E-02	GWP	1.10E-03	DWG
1,2,3-Trichloropropane	6.23E-04	GWP	6.93E-05	DWG
1,1,2-Trichlorotrifluoroethane	6.41E+02	INH	3.30E+01	DWG
1,2,4-Trimethylbenzene	3.93E+00	GWP	7.06E-03	DWG
1,3,5-Trimethylbenzene	8.82E-01	GWP	7.05E-03	DWG
1,3,5-Trinitrobenzene	1.59E+00	GWP	4.64E-01	DWG
2,4,6-Trinitrotoluene (TNT)	3.60E-01	GWP	7.63E-03	DWG
Vinyl chloride	1.92E-02	GWP	2.00E-03	DWG
Xylenes (total)	2.47E+01	INH	1.00E+01	DWG
Pesticides				
Acetochlor	9.36E+00	GWP	3.01E-01	DWG
Acifluorfen	3.69E+00	GWP	2.03E-01	DWG
Acrolein	1.06E-04	GWP	2.38E-05	DWG
Alachlor	5.95E-02	GWP	2.00E-03	DWG
Aldicarb	1.11E-02	GWP	3.00E-03	DWG
Aldicarb sulfone	5.31E-03	GWP	3.00E-03	DWG
Aldrin	2.85E-01	SDC	3.74E-05	DWG
Ametryn	7.60E+00	GWP	1.28E-01	DWG
Atrazine	2.22E-01	GWP	3.00E-03	DWG
Baygon	1.57E+00	GWP	6.26E-02	DWG
Butylate	1.08E+01	GWP	5.38E-01	DWG
Captan	8.73E+00	GWP	2.83E-01	DWG
Carbaryl	2.50E+01	GWP	1.49E+00	DWG
Carbofuran	3.39E-01	GWP	4.00E-02	DWG
Carboxin	1.01E+01	INH	1.41E+00	DWG
Chloramben	6.55E+00	GWP	2.21E-01	DWG
Chlordane (technical)	5.40E+00	GWP	3.02E-04	DWG
Chlordane, gamma	1.60E+01	SDC	2.00E-03	DWG
Chlorothalonil	1.37E+02	GWP	1.59E-01	DWG
Chlorpyrifos	8.16E+00	GWP	2.93E-02	DWG
Coumaphos	2.01E+02	GWP	8.45E-02	DWG
Cyanazine	2.65E-03	INH	7.87E-04	DWG
Dacthal	6.11E+02	SDC	9.03E-02	DWG
Dalapon, sodium salt	3.33E-01	GWP	2.00E-01	DWG
DDD	2.02E+01	SDC	5.24E-04	DWG

Notes:

DWG: Domestic water use of groundwater

GDC: GW dermal contact pathway

GWP: Protection of domestic groundwater use pathway

INH: Indoor inhalation pathway

SDC: Soil direct contact pathway

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-1
Lowest Default Target Levels
All Soil Types and All Pathways

Chemicals of Concern	Soil [mg/kg]		Groundwater [mg/L]	
DDE	1.43E+01	SDC	4.11E-04	DWG
DDT	1.43E+01	SDC	2.42E-04	DWG
DEF	2.16E+00	SDC	1.05E-04	DWG
Demeton	2.38E-01	GWP	5.74E-03	DWG
Diazinon	4.00E-01	GWP	1.13E-02	DWG
Dicamba	8.38E+00	GWP	4.54E-01	DWG
2,4-Dichlorophenoxy acetic acid (2,4-D)	9.38E+00	GWP	7.00E-02	DWG
4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	7.54E+00	GWP	9.40E-02	DWG
Dichloroprop (2,4-DP)	1.78E-01	GWP	1.34E-01	DWG
Dieldrin	9.36E-02	GWP	2.94E-05	DWG
Dimethoate	1.67E-02	GWP	3.12E-03	DWG
2,4-Dinitro-6-sec-butylphenol (Dinoseb)	1.38E-01	GWP	7.00E-03	DWG
Diquat	6.34E-01	GWP	2.00E-02	DWG
Disulfoton	7.48E-04	GWP	4.78E-04	DWG
Diuron	1.70E+00	GWP	2.93E-02	DWG
Endosulfan	2.71E+01	GWP	8.48E-02	DWG
Endothall	1.96E+00	GWP	1.00E-01	DWG
Endrin	3.66E+00	GWP	2.00E-03	DWG
Endrin aldehyde	1.82E+01	SDC	7.13E-04	DWG
Endrin ketone	1.83E+01	SDC	2.07E-03	DWG
Eptam	2.96E+00	GWP	7.98E-02	DWG
Ethoprop	2.53E-01	GWP	1.39E-03	DWG
Fenamiphos	1.98E-01	GWP	3.91E-03	DWG
Fenthion	1.66E-01	GWP	1.01E-03	DWG
Fluometuron	5.57E+00	GWP	2.03E-01	DWG
Fonofos	1.14E+01	GWP	2.13E-02	DWG
alpha-Hexachlorocyclohexane	1.27E-02	GWP	6.88E-05	DWG
beta-Hexachlorocyclohexane	4.50E-02	GWP	2.38E-04	DWG
delta-Hexachlorocyclohexane	1.72E-01	GWP	2.70E-04	DWG
gamma-Hexachlorocyclohexane	3.21E-02	GWP	2.00E-04	DWG
Glyphosate	3.79E+02	GWP	7.00E-01	DWG
Guthion	8.83E-01	GWP	2.28E-02	DWG
Heptachlor	8.23E-01	INH	1.29E-04	INH
Heptachlor epoxide	5.33E-01	SDC	1.52E-04	GDC
Hexazinone	3.44E+00	GWP	5.03E-01	DWG
Malathion	8.25E+01	GWP	3.07E-01	DWG
Maleic hydrazide	5.86E+01	GWP	7.82E+00	DWG
Maneb	6.51E+00	GWP	7.82E-02	DWG
Methomyl	1.38E+00	GWP	3.89E-01	DWG
Methoxychlor	3.04E+02	SDC	4.00E-02	DWG

Notes:

DWG: Domestic water use of groundwater

GWP: Protection of domestic groundwater use pathway

SDC: Soil direct contact pathway

GDC: GW dermal contact pathway

INH: Indoor inhalation pathway

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-1
Lowest Default Target Levels
All Soil Types and All Pathways

Chemicals of Concern	Soil [mg/kg]		Groundwater [mg/L]	
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	9.12E-02	GWP	6.26E-03	DWG
MCPP	1.80E-02	GWP	1.36E-02	DWG
Metolachlor	2.33E+02	GWP	2.20E+00	DWG
Metribuzin	6.03E+00	GWP	3.90E-01	DWG
Mirex	3.10E-02	GWP	3.74E-05	DWG
Naled	6.58E-01	GWP	3.11E-02	DWG
o,o,o-Triethylphosphorothioate	2.00E-03	GWP	2.69E-05	DWG
Oxamyl	5.03E-01	GWP	2.00E-01	DWG
Paraquat	1.62E+02	GWP	7.04E-02	DWG
ethyl-Parathion	6.21E+01	GWP	7.44E-02	DWG
methyl-Parathion	2.80E+00	GWP	3.69E-03	DWG
Pendimethalin	2.44E+03	SDC	1.67E-01	DWG
Phenylmercuric acetate	1.41E-02	GWP	1.25E-03	DWG
Phorate	2.69E-01	GWP	2.69E-03	DWG
Picloram	1.80E+00	INH	7.19E-02	INH
Prometon	1.70E+01	GWP	2.14E-01	DWG
Pronamide	2.97E+01	GWP	9.56E-01	DWG
Propachlor	8.23E+00	GWP	2.03E-01	DWG
Propanil	9.50E+00	GWP	7.00E-02	DWG
Propazine	3.07E-01	GWP	1.26E-02	DWG
Propham	4.16E+00	GWP	2.86E-01	DWG
Silvex (2,4,5-TP)	4.83E-01	GWP	5.00E-02	DWG
Simazine	8.75E-02	GWP	4.00E-03	DWG
Strychnine	6.11E-02	GWP	4.65E-03	DWG
Tebuthiuron	6.44E+00	GWP	1.08E+00	DWG
Terbacil	1.51E+00	GWP	2.03E-01	DWG
Terbufos	2.67E-02	GWP	2.68E-04	DWG
Terbutryn	2.88E+00	GWP	1.18E-02	DWG
Toxaphene	4.41E+00	SDC	1.72E-03	GDC
Triallate	3.95E+01	GWP	1.18E-01	DWG
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	1.26E+00	GWP	1.37E-01	DWG
Trifluralin	6.12E+01	GWP	2.98E-02	DWG
Warfarin	5.95E-01	GWP	4.31E-03	DWG
Metals				
Aluminum	7.55E+04	SDC	1.56E+01	DWG
Antimony	6.66E+00	GWP	6.00E-03	DWG
Arsenic	3.89E+00	SDC	1.00E-02	DWG
Barium	2.04E+03	GWP	2.00E+00	DWG
Beryllium	7.37E-01	SDC	4.00E-03	DWG
Cadmium	9.31E+00	GWP	5.00E-03	DWG
Chromium (III) total chromium	7.46E+04	SDC	1.00E-01	DWG

Notes:

DWG: Domestic water use of groundwater

GWP: Protection of domestic groundwater use pathway

SDC: Soil direct contact pathway

GDC: GW dermal contact pathway

INH: Indoor inhalation pathway

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-1
Lowest Default Target Levels
All Soil Types and All Pathways

Chemicals of Concern	Soil [mg/kg]		Groundwater [mg/L]	
Chromium (VI)	1.59E-03	GWP	3.37E-06	DWG
Copper	6.17E+02	GWP	6.24E-01	DWG
Lead	3.74E+00	GWP	1.50E-02	DWG
Manganese	2.72E+03	GWP	2.19E+00	DWG
Mercury	2.19E+00	INH	5.07E-02	INH
Molybdenum	3.87E+01	GWP	7.80E-02	DWG
Nickel	5.05E+02	GWP	3.13E-01	DWG
Selenium	6.27E+00	GWP	5.00E-02	DWG
Silver	1.62E+01	GWP	7.81E-02	DWG
Strontium	4.77E+02	GWP	9.37E+00	DWG
Thallium chloride	2.20E+00	GWP	1.25E-03	DWG
Vanadium	5.30E+02	SDC	1.09E-01	DWG
Zinc	7.22E+03	GWP	4.69E+00	DWG
Inorganics				
Ammonia	2.21E-01	GWP	1.19E-01	DWG
Cyanide	7.71E+01	GWP	3.12E-01	DWG
Cyanide (as Sodium Cyanide)	2.65E-01	GWP	2.00E-01	DWG
Cyanogen bromide	1.84E+00	GWP	2.97E-01	DWG
Fluoride (as Sodium Fluoride)	5.29E+00	GWP	4.00E+00	DWG
Perchlorate	1.45E-02	GWP	1.09E-02	DWG
White phosphorus	1.46E-02	GWP	8.64E-05	DWG
Total Petroleum Hydrocarbons				
TPH-GRO	3.85E+02	INH	1.81E+01	DWG
Aliphatics - > C6-C8	2.53E+02	INH	9.94E+00	INH
Aliphatics - > C8-C10	5.24E+01	INH	3.40E-01	INH
Aromatics - >C8-C10	4.12E+01	GWP	1.72E-01	DWG
TPH-DRO	4.15E+03	INH	3.43E+01	DWG
Aliphatics - >C10-C12	2.60E+02	INH	2.27E-01	INH
Aliphatics - >C12-C16	1.18E+03	INH	5.23E-02	INH
Aliphatics - >C16-C21	1.22E+05	SDC	3.13E+01	DWG
Aromatics - >C10-C12	6.49E+01	GWP	1.72E-01	DWG
Aromatics - >C12-C16	1.29E+02	GWP	1.72E-01	DWG
Aromatics - >C16-C21	1.11E+03	GWP	4.69E-01	DWG
TPH-ORO	1.24E+05	SDC	3.18E+01	DWG
Aliphatics - >C21-C35	1.22E+05	SDC	3.13E+01	DWG
Aromatics - >C21-C35	1.72E+03	SDC	4.69E-01	DWG

Notes:

DWG: Domestic water use of groundwater

GDC: GW dermal contact pathway

GWP: Protection of domestic groundwater use pathway

INH: Indoor inhalation pathway

SDC: Soil direct contact pathway

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-7
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Outdoor Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
VOCs and SVOCs																		
Acenaphthene	4.09E-01	NC	7.15E+04 *	NC	6.13E+04 *	NC	4.41E+05 *	NC	3.07E+04 *	NC	1.72E+06 *	NC	2.56E+05 +	NC	4.09E+04 #	NC	7.50E+00 #	NC
Acenaphthylene	4.09E-01	NC	NA	--	6.13E+04 *	NC	4.58E+05 *	NC	5.41E+04 *	NC	2.15E+06 *	NC	2.45E+05 +	NC	5.24E+04 #	NC	8.89E+00 #	NC
Acetone	6.13E+00	NC	NA	--	9.20E+05 *	NC	6.61E+06 *	NC	8.07E+05 *	NC	1.15E+05	NC	1.28E+06 +	NC	8.14E+05	NC	3.69E+04	NC
Acetonitrile	1.17E-01	NC	NA	--	1.74E+04	NC	1.26E+05	NC	1.53E+04	NC	3.74E+03	NC	2.26E+04	NC	1.62E+04	NC	6.97E+02	NC
Acrylamide	4.20E-05	C	9.64E+00	C	6.36E+00	C	4.53E+01	C	3.53E+00	C	5.30E+01	C	4.94E-03	C	1.22E+02	C	5.72E-01	C
Acrylic acid	1.95E-03	NC	7.74E+05 *	NC	5.11E+05 *	NC	2.10E+03	NC	2.09E+03	NC	9.31E+02	NC	3.04E+01	NC	6.43E+03	NC	8.26E+03	NC
Acrylonitrile	8.02E-04	C	NA	--	5.30E+01	C	8.64E+02	C	4.99E+01	C	5.07E+00	C	1.97E+02	C	3.53E+01	C	9.42E-01	C
Allyl alcohol	3.41E-02	NC	7.74E+03	NC	5.11E+03	NC	3.67E+04	NC	2.84E+03	NC	9.25E+03	NC	5.97E+03	NC	2.96E+04	NC	1.11E+02	NC
Allyl chloride	1.95E-03	NC	4.49E+02	NC	2.96E+02	NC	2.10E+03	NC	1.65E+02	NC	2.09E+03	NC	1.48E+02	NC	4.81E+03	NC	1.06E+00	NC
Aniline	1.95E-03	NC	7.57E+03 *	C	4.99E+03	C	2.10E+03	NC	1.41E+03	NC	1.00E+03	NC	2.99E+02	NC	5.21E+03	NC	4.67E+01	C
Anthracene	2.04E+00	NC	3.57E+05 *	NC	3.07E+05 *	NC	2.22E+06 *	NC	1.54E+05 *	NC	1.01E+07 *	NC	1.69E+06 +	NC	5.83E+04 #	NC	1.76E+01 #	NC
Aroclor 1016	4.77E-04	NC	7.74E+01	NC	7.15E+01	NC	2.60E+03 *	NC	3.67E+01	NC	5.94E+04 *	NC	6.55E+02 +	NC	5.59E+01 #	NC	1.80E-03	NC
Aroclor 1221	9.54E-05	C	1.55E+01	C	1.43E+01	C	1.03E+02 *	C	6.94E+00	C	2.23E+01 *	C	9.00E+01 +	C	6.61E-01 #	C	9.26E-04	C
Aroclor 1242	9.54E-05	C	1.55E+01 *	C	1.43E+01 *	C	1.03E+02 *	C	6.94E+00	C	2.46E+02 *	C	1.36E+02 +	C	6.60E+00 #	C	3.94E-04	C
Aroclor 1248	9.54E-05	C	1.55E+01	C	1.43E+01	C	2.34E+02 *	C	7.21E+00	C	2.42E+03 *	C	1.64E+02 +	C	1.49E+00 #	C	2.13E-04	C
Aroclor 1254	9.54E-05	C	1.55E+01	C	1.43E+01	C	3.80E+02 *	C	7.29E+00	C	6.37E+03 *	C	1.64E+02 +	C	2.05E+00 #	C	1.84E-04	C
Aroclor 1260	9.54E-05	C	1.55E+01	C	1.43E+01	C	1.04E+03	C	7.38E+00	C	4.80E+04 *	C	2.21E+02 +	C	1.23E+00 #	C	2.03E-04	C
Azobenzene	1.76E-03	C	NA	--	2.60E+02	C	8.02E+03 *	C	2.52E+02	C	1.53E+05 *	C	9.08E+02 +	C	4.88E+02 #	C	1.39E-02	C
Benzene	1.06E-02	C	NA	--	8.18E+02	C	1.14E+04 *	C	7.63E+02	C	7.51E+00	C	3.24E+03	C	1.51E+01	C	1.06E+00	C
Benzidine	8.14E-07	C	1.89E-01	C	1.24E-01	C	1.99E+01	C	7.47E-02	C	2.60E+03	C	3.96E-06	C	2.52E+00	C	1.16E-03	C
Benzo(a)anthracene	4.89E-04	C	4.57E+01 *	C	3.92E+01 *	C	1.74E+06 *	C	2.11E+01	C	2.31E+06 *	C	1.32E+02 +	C	9.79E+02 #	C	6.37E-04	C
Benzo(a)pyrene	4.89E-05	C	4.57E+00	C	3.92E+00	C	1.74E+05 *	C	2.11E+00	C	9.33E+05 *	C	7.06E+00 +	C	1.54E+02 #	C	3.74E-05	C
Benzo(b)fluoranthene	4.89E-04	C	4.57E+01 *	C	3.92E+01 *	C	1.02E+04 *	C	2.11E+01 *	C	9.09E+05 *	C	5.60E+02 +	C	1.25E+02 #	C	3.68E-04	C
Benzo(g,h,i)perylene	2.04E-01	NC	3.57E+04 *	NC	3.07E+04 *	NC	7.26E+08 *	NC	1.65E+04 *	NC	1.24E+09 *	NC	7.62E+02 +	NC	1.33E+05 #	NC	2.10E-01 #	NC
Benzo(k)fluoranthene	4.89E-04	C	4.57E+02 *	C	3.92E+02 *	C	1.74E+06 *	C	2.11E+02 *	C	1.99E+07 *	C	9.18E+01 +	C	2.74E+03 #	C	3.80E-03 #	C
Benzoic acid	2.73E+01	NC	6.19E+06 *	NC	4.09E+06 *	NC	2.94E+07 *	NC	2.27E+06 *	NC	1.14E+07 *	NC	5.00E+06 +	NC	8.02E+07 #	NC	1.10E+04 #	NC
Benzyl alcohol	2.04E+00	NC	4.65E+05 *	NC	3.07E+05 *	NC	2.20E+06 *	NC	1.70E+05 *	NC	1.62E+06 *	NC	1.24E+05 +	NC	7.74E+06 #	NC	2.54E+03	NC
1,1-Biphenyl	3.41E-01	NC	NA	--	5.11E+04 *	NC	3.67E+05 *	NC	4.49E+04 *	NC	1.15E+05 *	NC	2.25E+05	NC	1.37E+04 #	NC	9.87E+00 #	NC
Bis(2-chloroethyl)ether	1.65E-04	C	NA	--	2.60E+01	C	1.78E+02	C	2.27E+01	C	1.83E+01	C	5.81E+01	C	7.98E+01	C	1.93E-01	C
Bis(2-chloroisopropyl)ether	5.45E-03	C	NA	--	4.09E+02	C	5.88E+03 *	C	3.82E+02	C	2.40E+02	C	2.29E+03	C	5.06E+02	C	5.31E-01	C
Bis(chloromethyl)ether	8.79E-07	C	NA	--	1.30E-01	C	9.48E-01	C	1.14E-01	C	4.65E-03	C	2.64E-01	C	3.19E-02	C	2.43E-03	C
Bis(2-ethylhexyl)phthalate	1.36E-02	C	3.10E+03	C	2.04E+03	C	4.84E+07 *	C	1.23E+03	C	1.17E+10 *	C	5.38E+02 +	C	1.30E+05 #	C	2.75E-01	C
Bromochloromethane	9.74E-02	NC	NA	--	4.09E+04 *	NC	1.05E+05 *	NC	2.94E+04 *	NC	2.28E+02	NC	2.71E+04	NC	7.55E+02	NC	2.70E+02	NC
Bromodichloromethane	1.47E-03	C	NA	--	4.62E+02	C	1.59E+03	C	3.58E+02	C	9.70E+00	C	1.33E+03	C	2.07E+01	C	1.17E+00	C
Bromoform	4.96E-02	C	5.49E+03 *	C	3.62E+03 *	C	5.34E+04 *	C	2.10E+03 *	C	2.66E+03 *	C	8.75E+04 +	C	4.05E+03 #	C	1.08E+01	C
Bromomethane	9.74E-03	NC	NA	--	1.43E+03	NC	1.05E+04 *	NC	1.26E+03	NC	3.23E+00	NC	3.59E+03	NC	1.46E+01	NC	8.98E+00	NC
4-Bromophenyl phenyl ether	1.65E-05	C	2.89E+00	C	1.91E+00	C	2.78E+01	C	1.10E+00	C	1.95E+02 *	C	9.17E+00 +	C	1.94E+00 #	C	7.72E-05	C
n-Butylbenzene	2.73E-01	NC	NA	--	4.09E+04 *	NC	2.94E+05 *	NC	3.59E+04 *	NC	3.08E+03 *	NC	9.78E+04 +	NC	1.95E+02 #	NC	2.97E+00	NC
sec-Butylbenzene	2.73E-01	NC	NA	--	4.09E+04 *	NC	2.94E+05 *	NC	3.59E+04 *	NC	1.71E+03 *	NC	9.78E+04 +	NC	1.37E+02 #	NC	4.03E+00	NC
tert-Butylbenzene	2.73E-01	NC	NA	--	4.09E+04 *	NC	2.94E+05 *	NC	3.59E+04 *	NC	2.62E+03 *	NC	9.78E+04 +	NC	2.10E+02 #	NC	3.51E+00	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-7
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Outdoor Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
Butyl benzyl phthalate	1.36E+00	NC	3.10E+05 *	NC	2.04E+05 *	NC	4.84E+09 *	NC	1.23E+05 *	NC	2.83E+09 *	NC	4.24E+05 +	NC	8.32E+06 #	NC	2.32E+01 #	NC
Carbazole	9.54E-03	C	2.17E+03 *	C	1.43E+03 *	C	4.79E+04 *	C	8.47E+02 *	C	1.01E+06 *	C	3.09E+01 +	C	4.99E+04 #	C	6.69E-01	C
Carbon disulfide	1.36E+00	NC	NA	--	1.02E+05 *	NC	1.47E+06 *	NC	9.56E+04 *	NC	1.72E+02	NC	3.53E+05	NC	3.09E+02	NC	1.15E+02	NC
Carbon tetrachloride	3.64E-03	C	NA	--	2.20E+02	C	3.92E+03 *	C	2.08E+02	C	1.38E+00	C	1.25E+03	C	1.09E+00	C	1.71E-01	C
p-Chloroaniline	2.73E-02	NC	6.19E+03 *	NC	4.09E+03 *	NC	2.94E+04 *	NC	2.27E+03	NC	4.85E+04 *	NC	1.23E+03 +	NC	9.16E+04 #	NC	1.45E+01	NC
Chlorobenzene	1.16E-01	NC	NA	--	2.04E+04 *	NC	1.25E+05 *	NC	1.76E+04 *	NC	4.16E+02	NC	4.27E+04	NC	2.96E+02	NC	1.19E+01	NC
Chloroethane	6.58E-02	C	NA	--	9.87E+03 *	C	7.09E+04 *	C	8.66E+03 *	C	1.18E+01	C	1.77E+04	C	4.22E+01	C	3.31E+01	C
Chloroform	2.37E-03	C	NA	--	9.23E+02	C	2.56E+03	C	6.78E+02	C	1.63E+00	C	6.13E+02	C	4.27E+00	C	2.11E+00	C
Chloromethane	3.03E-02	C	NA	--	2.20E+03	C	3.27E+04 *	C	2.06E+03	C	3.78E+00	C	7.41E+03	C	8.23E+00	C	1.44E+01	C
2-Chloronaphthalene	5.45E-01	NC	NA	--	8.18E+04 *	NC	5.88E+05 *	NC	7.18E+04 *	NC	4.31E+05 *	NC	5.75E+05 +	NC	4.50E+04 #	NC	1.50E+01 #	NC
2-Chlorophenol	3.41E-02	NC	NA	--	5.11E+03	NC	3.67E+04	NC	4.49E+03	NC	2.80E+03	NC	1.81E+04 +	NC	1.16E+03	NC	9.36E+00	NC
4-Chlorophenyl phenyl ether	1.65E-05	C	2.89E+00	C	1.91E+00	C	1.78E+01	C	1.08E+00	C	5.47E+01	C	9.03E+00	C	7.08E-01	C	7.56E-05	C
2-Chlorotoluene	1.36E-01	NC	NA	--	2.04E+04 *	NC	1.47E+05 *	NC	1.79E+04 *	NC	1.01E+03 *	NC	5.23E+04 +	NC	4.07E+02 #	NC	7.64E+00	NC
4-Chlorotoluene	5.06E-04	NC	NA	--	2.04E+04 *	NC	5.46E+02 *	NC	5.32E+02 *	NC	4.74E+00	NC	2.01E+02	NC	1.58E+00	NC	6.49E+00	NC
Chrysene	4.89E-03	C	4.57E+03 *	C	3.92E+03 *	C	6.02E+04 *	C	2.04E+03 *	C	3.12E+06 *	C	5.07E+03 +	C	1.33E+03 #	C	6.37E-02 #	C
Dibenzo(a,h)anthracene	4.65E-05	C	4.57E+00	C	3.92E+00	C	1.65E+05 *	C	2.11E+00	C	7.44E+06 *	C	1.97E-01 +	C	3.31E+02 #	C	2.41E-05	C
Dibenzofuran	1.36E-02	NC	NA	--	2.04E+03 *	NC	1.47E+04 *	NC	1.79E+03 *	NC	3.22E+04 *	NC	6.02E+03 +	NC	7.00E+02 #	NC	3.03E-01	NC
Dibromochloromethane	2.02E-03	C	5.16E+02	C	3.41E+02	C	2.18E+03 *	C	1.88E+02	C	4.47E+01	C	2.74E+03	C	8.67E+01	C	9.32E-01	C
1,2-Dibromo-3-chloropropane	1.36E-04	C	3.10E+01	C	2.04E+01	C	1.47E+02	C	1.14E+01	C	2.17E+02	C	4.24E+03	C	7.13E+02	C	3.59E-02	C
Dibutyl phthalate	6.82E-01	NC	1.55E+05 *	NC	1.02E+05 *	NC	2.42E+09 *	NC	6.16E+04 *	NC	6.46E+08 *	NC	1.22E+02 +	NC	3.22E+06 #	NC	2.64E+01 #	NC
1,2-Dichlorobenzene	3.89E-01	NC	NA	--	9.20E+04 *	NC	4.19E+05 *	NC	7.54E+04 *	NC	7.49E+03 *	NC	1.51E+05 +	NC	2.02E+03 #	NC	2.92E+01	NC
1,3-Dichlorobenzene	2.04E-01	NC	NA	--	3.07E+04 *	NC	2.20E+05 *	NC	2.69E+04 *	NC	3.95E+03 *	NC	7.97E+04 +	NC	1.06E+03 #	NC	6.87E+00	NC
1,4-Dichlorobenzene	8.67E-03	C	NA	--	5.30E+03 *	C	9.35E+03 *	C	3.38E+03 *	C	1.31E+02	C	3.38E+03	C	3.54E+01	C	1.64E+00	C
3,3-Dichlorobenzidine	1.59E-04	C	9.64E+01 *	C	6.36E+01 *	C	5.65E+05 *	C	3.83E+01 *	C	3.86E+03 *	C	1.41E-01 +	C	8.72E+02 #	C	3.20E-02	C
Dichlorodifluoromethane	3.89E-01	NC	NA	--	2.04E+05 *	NC	4.19E+05 *	NC	1.37E+05 *	NC	3.56E+01	NC	1.31E+05	NC	3.48E+01	NC	3.50E+02 #	NC
1,1-Dichloroethane	3.41E-02	C	NA	--	5.02E+03 *	C	3.67E+04 *	C	4.42E+03 *	C	1.98E+01	C	1.24E+04	C	5.68E+01	C	1.29E+01	C
1,1-Dichloroethylene	3.89E-01	NC	NA	--	5.11E+04 *	NC	4.20E+05 *	NC	4.56E+04 *	NC	7.16E+01	NC	1.16E+05	NC	1.18E+02	NC	7.44E+01	NC
cis-1,2-Dichloroethylene	6.82E-02	NC	NA	--	1.02E+04 *	NC	7.35E+04 *	NC	8.97E+03 *	NC	5.64E+01	NC	2.49E+04	NC	1.56E+02	NC	2.34E+01	NC
trans-1,2-Dichloroethylene	1.36E-01	NC	NA	--	2.04E+04 *	NC	1.47E+05 *	NC	1.79E+04 *	NC	6.93E+01	NC	5.19E+04	NC	1.43E+02	NC	3.40E+01	NC
2,4-Dichlorophenol	2.04E-02	NC	4.65E+03 *	NC	3.07E+03	NC	2.20E+04 *	NC	1.70E+03	NC	5.13E+04 *	NC	6.50E+03 +	NC	5.09E+04 #	NC	1.71E+00	NC
1,2-Dichloropropane	5.30E-03	C	NA	--	7.95E+02	C	5.71E+03 *	C	6.98E+02	C	6.67E+00	C	1.82E+03	C	1.66E+01	C	1.65E+00	C
1,3-Dichloropropene	1.36E-02	C	NA	--	2.86E+02	C	1.47E+04 *	C	2.81E+02	C	4.24E+00	C	5.86E+03	C	8.68E+00	C	1.09E+00	C
Di(2-ethylhexyl)adipate	1.59E-01	C	3.61E+04 *	C	2.38E+04 *	C	1.71E+05 *	C	1.33E+04 *	C	2.80E+05 *	C	1.20E+05 +	C	1.33E+02 #	C	2.44E+00 #	C
Diethyl phthalate	5.45E+00	NC	1.24E+06 *	NC	8.18E+05 *	NC	1.94E+10 *	NC	4.93E+05 *	NC	5.31E+07 *	NC	5.24E+05 +	NC	2.88E+07 #	NC	1.68E+03 #	NC
Diisopropyl ether (DIPE)	7.50E-01	NC	NA	--	1.02E+05 *	NC	8.08E+05 *	NC	9.07E+04 *	NC	1.00E+03	NC	2.96E+05	NC	1.92E+03	NC	1.93E+02	NC
2,4-Dimethylphenol	1.36E-01	NC	3.10E+04 *	NC	2.04E+04 *	NC	1.47E+05 *	NC	1.14E+04 *	NC	4.56E+05 *	NC	2.68E+04 +	NC	3.32E+05 #	NC	2.84E+01	NC
2,6-Dimethylphenol	4.09E-03	NC	9.29E+02	NC	6.13E+02	NC	6.84E+03	NC	3.50E+02	NC	4.80E+04	NC	1.34E+03	NC	4.99E+03	NC	NA	--
Dimethyl phthalate	6.82E+01	NC	1.55E+07 *	NC	1.02E+07 *	NC	7.35E+07 *	NC	5.68E+06 *	NC	1.42E+08 *	NC	1.61E+06 +	NC	3.80E+08 #	NC	7.01E+04 #	NC
1,3-Dinitrobenzene	6.82E-04	NC	1.55E+02 *	NC	1.02E+02 *	NC	7.35E+02 *	NC	5.68E+01 *	NC	1.44E+03 *	NC	2.84E+01 +	NC	1.88E+03 #	NC	5.52E-01	NC
2,4-Dinitrophenol	1.36E-02	NC	3.10E+03 *	NC	2.04E+03 *	NC	1.47E+04 *	NC	1.14E+03 *	NC	7.15E+03 *	NC	9.27E+02 +	NC	5.17E+04 #	NC	1.39E+01	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-7
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Outdoor Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
2,4-Dinitrotoluene	6.16E-04	C	1.40E+02	C	9.23E+01	C	6.64E+02 *	C	5.13E+01	C	1.97E+03 *	C	1.05E+01 +	C	2.81E+03 #	C	3.09E-01	C
2,6-Dinitrotoluene	2.81E-04	C	6.38E+01	C	4.21E+01	C	3.03E+02 *	C	2.34E+01	C	6.59E+02 *	C	3.63E+01 +	C	1.20E+03 #	C	2.08E-01	C
4-Amino-2,6-dinitrotoluene	1.95E-04	NC	2.63E+02 *	NC	1.74E+02 *	NC	3.23E+02 *	NC	7.91E+01	NC	2.25E+03 *	NC	1.69E-01 +	NC	9.83E+02 #	NC	2.54E-01	NC
2-Amino-4,6-dinitrotoluene	1.95E-04	NC	2.63E+02 *	NC	1.74E+02 *	NC	3.98E+02 *	NC	8.29E+01 *	NC	3.42E+03 *	NC	1.16E-01 +	NC	9.86E+02 #	NC	1.93E-01	NC
Di-n-octylphthalate	2.73E-01	NC	6.19E+04 *	NC	4.09E+04 *	NC	3.96E+05 *	NC	2.32E+04 *	NC	2.41E+06 *	NC	4.57E+05 +	NC	1.69E+05 #	NC	2.42E+00 #	NC
1,4-Dioxane	7.08E-03	C	3.94E+03	C	2.60E+03	C	7.63E+03	C	1.30E+03	C	8.76E+02	C	7.12E+02	C	3.67E+03	C	1.44E+02	C
Diphenylamine	1.95E-02	NC	3.87E+04 *	NC	2.56E+04 *	NC	2.64E+04 *	NC	9.72E+03 *	NC	1.50E+05 *	NC	5.56E+03 +	NC	4.05E+04 #	NC	1.11E+01	NC
1,2-Diphenylhydrazine	2.48E-04	C	5.42E+01	C	3.58E+01	C	6.19E+02	C	2.08E+01	C	6.49E+03	C	2.25E-01	C	1.60E+03	C	2.81E-02	C
Ethanol	3.68E+00	NC	NA	--	3.37E+07 *	NC	3.97E+06 *	NC	3.55E+06 *	NC	3.57E+05 *	NC	6.71E+05 +	NC	2.46E+06 #	NC	1.37E+06 #	NC
Ethylbenzene	1.98E+00	NC	NA	--	1.02E+05 *	NC	2.13E+06 *	NC	9.75E+04 *	NC	5.20E+03 *	NC	7.09E+05 +	NC	2.35E+03 #	NC	3.51E+01	NC
Ethylene dibromide (EDB)	9.09E-05	C	NA	--	1.43E+01	C	9.80E+01	C	1.25E+01	C	1.76E+00	C	1.10E+02	C	3.82E+00	C	5.15E-02	C
Ethylene dichloride (EDC)	2.10E-03	C	NA	--	3.14E+02	C	2.26E+03 *	C	2.76E+02	C	3.38E+00	C	5.42E+02	C	1.39E+01	C	1.29E+00	C
Ethylene glycol	7.77E-01	NC	3.10E+06 *	NC	2.04E+06 *	NC	8.38E+05 *	NC	4.99E+05 *	NC	3.70E+05 *	NC	5.55E+03 +	NC	2.28E+06 #	NC	3.67E+05	NC
Ethylene thiourea	5.45E-04	NC	1.24E+02	NC	8.18E+01	NC	5.88E+02	NC	4.54E+01	NC	3.98E+02	NC	2.51E-02	NC	2.02E+03	NC	8.40E+00	NC
Ethyl-tert-butyl-ether (ETBE)	5.86E-01	NC	NA	--	1.02E+03	NC	6.32E+05 *	NC	1.02E+03	NC	8.59E+02	NC	2.27E+05	NC	2.37E+03	NC	2.77E+00	NC
Fluoranthene	2.73E-01	NC	4.76E+04 *	NC	4.09E+04 *	NC	3.52E+06 *	NC	2.19E+04 *	NC	1.91E+08 *	NC	1.97E+05 +	NC	3.02E+05 #	NC	1.66E+00 #	NC
Fluorene	2.73E-01	NC	4.76E+04 *	NC	4.09E+04 *	NC	6.28E+05 *	NC	2.13E+04 *	NC	6.06E+06 *	NC	1.90E+05 +	NC	7.41E+04 #	NC	3.48E+00 #	NC
Formaldehyde	4.20E-03	C	9.54E+02	C	6.30E+02	C	4.53E+03	C	3.50E+02	C	1.00E+03	C	9.05E+01	C	6.64E+03	C	8.09E+00	C
n-Hexane	1.36E+00	NC	NA	--	1.12E+07 *	NC	1.47E+06 *	NC	1.30E+06 *	NC	4.17E+01	NC	1.83E+05	NC	2.72E+00	NC	2.77E+03 #	NC
Hexachlorobenzene	1.19E-04	C	2.71E+01	C	1.79E+01	C	1.28E+02	C	9.94E+00	C	3.60E+02	C	5.90E+01 +	C	1.13E+00	C	8.16E-04	C
Hexachlorobutadiene	2.04E-03	NC	4.65E+02	NC	3.07E+02	NC	2.20E+03 *	NC	1.70E+02	NC	9.46E+02	NC	9.81E+02	NC	3.13E+00	NC	2.62E-02	NC
Hexachlorocyclopentadiene	3.89E-04	NC	9.29E+03 *	NC	6.13E+03 *	NC	4.20E+02	NC	3.77E+02	NC	7.05E+02	NC	6.50E+02	NC	6.25E-01	NC	7.08E-01	NC
Hexachloroethane	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	7.35E+03 *	NC	5.68E+02 *	NC	4.93E+03 *	NC	7.25E+04 +	NC	4.62E+02 #	NC	2.48E-01	NC
Hexachlorophene	2.04E-03	NC	4.65E+02	NC	3.07E+02	NC	7.26E+06 *	NC	1.85E+02	NC	3.02E+06 *	NC	2.25E-03 +	NC	1.00E+05 #	NC	4.87E-03	NC
HMX	5.26E-03	NC	7.74E+04 *	NC	5.11E+04 *	NC	1.87E+07 *	NC	3.07E+04 *	NC	1.10E+04 *	NC	1.08E+00 +	NC	3.08E+04 #	NC	5.65E+04 #	NC
Indeno(1,2,3-cd)pyrene	4.89E-04	C	2.78E+01 *	C	2.38E+01 *	C	1.74E+06 *	C	1.28E+01 *	C	5.05E+07 *	C	1.59E+02 +	C	2.46E+03 #	C	2.24E-04 #	C
Isophorone	2.01E-01	C	4.56E+04 *	C	3.01E+04 *	C	2.17E+05 *	C	1.67E+04 *	C	1.04E+05 *	C	6.70E+04 +	C	2.50E+05 #	C	1.22E+02	C
Isopropylbenzene (Cumene)	7.79E-01	NC	NA	--	1.02E+05 *	NC	8.40E+05 *	NC	9.11E+04 *	NC	2.67E+02 *	NC	2.80E+05 +	NC	8.56E+01 #	NC	2.50E+01	NC
4-Isopropyltoluene	2.04E+00	NC	NA	--	3.07E+05 *	NC	2.20E+06 *	NC	2.69E+05 *	NC	2.88E+04 *	NC	9.61E+05 +	NC	2.21E+03 #	NC	2.88E+01 #	NC
Maleic anhydride	1.36E-03	NC	1.55E+05 *	NC	1.02E+05 *	NC	1.47E+03 *	NC	1.44E+03	NC	4.59E+02	NC	2.51E+02 +	NC	1.58E+03	NC	3.39E+02	NC
Methanol	7.50E+00	NC	NA	--	5.11E+05 *	NC	8.08E+06 *	NC	4.81E+05 *	NC	9.75E+05 *	NC	9.39E+05 +	NC	5.09E+06 #	NC	3.68E+04	NC
Methyl butyl ketone	7.79E-03	NC	NA	--	6.13E+04 *	NC	8.40E+03 *	NC	7.39E+03 *	NC	2.15E+02	NC	2.94E+03	NC	8.82E+02	NC	2.54E+02	NC
Methyl ethyl ketone	9.74E+00	NC	NA	--	6.13E+05 *	NC	1.05E+07 *	NC	5.79E+05 *	NC	2.03E+05 *	NC	2.83E+06 +	NC	1.23E+06 #	NC	1.26E+04	NC
2-Methyl-4,6-dinitrophenol	5.84E-04	NC	1.55E+02	NC	1.02E+02	NC	6.30E+02 *	NC	5.61E+01	NC	4.11E+02	NC	3.13E-01 +	NC	2.97E+03	NC	3.08E-01	NC
Methylene chloride	1.16E-01	C	NA	--	3.82E+03 *	C	1.25E+05 *	C	3.70E+03 *	C	7.70E+01	C	3.09E+04	C	3.58E+02	C	2.02E+01	C
Methyl iodide	2.34E-02	NC	NA	--	1.43E+03	NC	2.52E+04 *	NC	1.35E+03	NC	3.20E+01	NC	6.16E+03	NC	3.03E+01	NC	7.69E+00	NC
Methyl isobutyl ketone	5.84E+00	NC	NA	--	8.18E+04 *	NC	6.30E+06 *	NC	8.07E+04 *	NC	3.45E+05 *	NC	2.07E+06 +	NC	3.72E+05 #	NC	5.18E+02	NC
2-Methylnaphthalene	2.73E-02	NC	NA	--	4.09E+03 *	NC	2.94E+04 *	NC	3.59E+03 *	NC	1.64E+04 *	NC	1.16E+04 +	NC	6.41E+02 #	NC	7.84E-01	NC
2-Methylphenol	3.41E-01	NC	7.74E+04 *	NC	5.11E+04 *	NC	3.67E+05 *	NC	2.84E+04 *	NC	6.45E+05 *	NC	4.62E+04 +	NC	9.51E+05 #	NC	1.11E+02	NC
3-Methylphenol	3.41E-01	NC	7.74E+04 *	NC	5.11E+04 *	NC	3.67E+05 *	NC	2.84E+04 *	NC	3.18E+05 *	NC	3.25E+04 +	NC	9.29E+05 #	NC	1.09E+02	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-7
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Outdoor Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
4-Methylphenol	3.41E-02	NC	7.74E+03	NC	5.11E+03	NC	3.67E+04 *	NC	2.84E+03	NC	3.82E+04 *	NC	3.61E+03 +	NC	8.92E+04 #	NC	1.11E+01	NC
Methyl teriary butyl ether (MTBE)	2.10E-01	C	NA	--	1.59E+04 *	C	2.26E+05 *	C	1.49E+04 *	C	6.15E+02	C	7.03E+04	C	2.98E+03	C	8.58E+01	C
Methyl-2,4,6-trinitrophenylnitramine	1.95E-04	NC	1.55E+04 *	NC	1.02E+04 *	NC	6.91E+05 *	NC	6.10E+03 *	NC	5.34E+03 *	NC	2.87E-04 +	NC	3.47E+03 #	NC	6.58E+01	NC
Naphthalene	1.59E-03	C	2.78E+02	C	2.38E+02	C	1.71E+03 *	C	1.19E+02	C	4.43E+02 *	C	7.22E+02 +	C	3.72E+01 #	C	7.51E-02	C
2-Nitroaniline	2.04E-04	NC	4.65E+03 *	NC	3.07E+03 *	NC	2.20E+02	NC	1.97E+02	NC	2.53E+02	NC	1.75E+01	NC	8.52E+02	NC	7.39E+00	NC
3-Nitroaniline	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	2.20E+03 *	NC	1.70E+02	NC	3.26E+03 *	NC	2.00E+00 +	NC	8.78E+03 #	NC	1.36E+00	NC
4-Nitroaniline	6.82E-03	NC	2.06E+03 *	C	1.36E+03 *	C	7.35E+03 *	NC	7.57E+02 *	C	6.03E+03 *	NC	9.69E-01 +	NC	2.95E+04 #	NC	1.39E+01	C
Nitrobenzene	3.89E-03	NC	NA	--	5.11E+02	NC	4.19E+03 *	NC	4.55E+02	NC	6.80E+02	NC	1.27E+03	NC	1.31E+03	NC	1.54E+00	NC
Nitroglycerin	4.77E-04	NC	1.08E+02	NC	7.15E+01	NC	1.69E+06 *	NC	4.31E+01	NC	1.59E+03	NC	7.78E+00 +	NC	2.32E+03	NC	3.26E-01	NC
2-Nitrophenol	7.79E-03	NC	3.10E+03	NC	2.04E+03	NC	8.40E+03 *	NC	1.07E+03	NC	7.16E+03 *	NC	5.96E+02 +	NC	2.73E+04 #	NC	6.99E+00	NC
4-Nitrophenol	1.95E-03	NC	3.10E+03 *	NC	2.04E+03 *	NC	2.10E+03 *	NC	7.76E+02 *	NC	1.31E+03 *	NC	2.67E-01 +	NC	8.36E+03 #	NC	5.83E+00	NC
n-Nitrosodimethylamine	3.90E-06	C	8.50E-01	C	5.61E-01	C	4.21E+00	C	3.13E-01	C	1.30E+00	C	4.56E-01	C	6.20E+00	C	4.38E-02	C
n-Nitrosodi-n-propylamine	2.73E-05	C	6.19E+00	C	4.09E+00	C	2.94E+01	C	2.27E+00	C	1.71E+01	C	6.16E+00	C	6.68E+01	C	2.58E-02	C
n-Nitrosodiphenylamine	2.12E-02	C	8.85E+03 *	C	5.84E+03 *	C	4.53E+04 *	C	3.26E+03 *	C	4.06E+05 *	C	1.06E+04 +	C	5.22E+04 #	C	3.64E+00	C
n-Nitrosopyrrolidine	8.94E-05	C	2.06E+01	C	1.36E+01	C	9.64E+01	C	7.56E+00	C	5.80E+01	C	3.02E-01	C	4.09E+02	C	3.78E-01	C
2-Nitrotoluene	8.30E-04	C	NA	--	1.24E+02	C	8.95E+02 *	C	1.09E+02	C	1.73E+02	C	3.30E+02	C	1.78E+02	C	1.78E-01	C
3-Nitrotoluene	1.36E-01	NC	NA	--	2.04E+04 *	NC	1.47E+05 *	NC	1.79E+04 *	NC	2.41E+04 *	NC	5.50E+04 +	NC	2.48E+04 #	NC	2.93E+01	NC
4-Nitrotoluene	1.12E-02	C	NA	--	1.68E+03 *	C	1.21E+04 *	C	1.48E+03 *	C	1.96E+03 *	C	4.54E+03 +	C	2.02E+03 #	C	2.41E+00	C
Pentachlorobenzene	5.45E-03	NC	1.24E+03 *	NC	8.18E+02 *	NC	5.88E+03 *	NC	4.54E+02 *	NC	1.80E+04 *	NC	2.18E+03 +	NC	7.71E+01 #	NC	3.34E-02	NC
Pentachloronitrobenzene	7.34E-04	C	1.67E+02 *	C	1.10E+02 *	C	3.12E+03 *	C	6.49E+01	C	5.57E+04 *	C	1.14E+03 +	C	3.54E+02 #	C	1.45E-02	C
Pentachlorophenol	1.06E-02	C	1.45E+02	C	2.38E+02	C	3.76E+07 *	C	9.00E+01	C	2.31E+05 *	C	6.26E+01 +	C	6.34E+04 #	C	4.08E-03	C
Pentaerythritol tetranitrate	2.73E+00	NC	6.19E+05 *	NC	4.09E+05 *	NC	9.68E+09 *	NC	2.46E+05 *	NC	3.92E+08 *	NC	5.80E+05 +	NC	1.05E+07 #	NC	1.99E+02 #	NC
Phenanthrene	2.04E-01	NC	NA	--	3.07E+04 *	NC	3.51E+05 *	NC	2.82E+04 *	NC	2.52E+06 *	NC	1.60E+05 +	NC	3.01E+04 #	NC	2.33E+00 #	NC
Phenol	3.89E-01	NC	4.65E+05 *	NC	3.07E+05 *	NC	4.20E+05 *	NC	1.28E+05 *	NC	4.07E+05 *	NC	2.12E+04 +	NC	1.32E+06 #	NC	1.26E+03	NC
m-Phenylenediamine	4.09E-02	NC	9.29E+03	NC	6.13E+03	NC	4.41E+04 *	NC	3.41E+03	NC	2.36E+04	NC	6.29E-01	NC	1.63E+05	NC	4.76E+02	NC
Polychlorinated biphenyls (PCBs)	5.45E-04	C	1.55E+01	C	1.43E+01	C	1.71E+03 *	C	7.40E+00	C	2.24E+04 *	C	1.40E+02 +	C	1.23E+01 #	C	2.31E-04	C
n-Propylbenzene	2.73E-01	NC	NA	--	4.09E+04 *	NC	2.94E+05 *	NC	3.59E+04 *	NC	1.06E+03 *	NC	9.78E+04 +	NC	2.44E+02 #	NC	6.54E+00	NC
Pyrene	2.04E-01	NC	3.57E+04 *	NC	3.07E+04 *	NC	3.09E+06 *	NC	1.64E+04 *	NC	1.97E+08 *	NC	1.41E+05 +	NC	3.17E+05 #	NC	9.07E-01 #	NC
RDX	1.73E-03	C	3.94E+02	C	2.60E+02	C	1.87E+03 *	C	1.45E+02	C	4.97E+03 *	C	2.19E+01 +	C	9.71E+03 #	C	4.59E+00	C
Styrene	1.95E+00	NC	NA	--	2.04E+05 *	NC	2.10E+06 *	NC	1.86E+05 *	NC	3.15E+04 *	NC	7.38E+05 +	NC	6.84E+03 #	NC	9.27E+01	NC
1,1,1,2-Tetrachloroethane	7.37E-03	C	NA	--	1.10E+03 *	C	7.94E+03 *	C	9.67E+02 *	C	1.77E+01	C	2.79E+03	C	2.94E+01	C	8.11E-01	C
1,1,2,2-Tetrachloroethane	9.40E-04	C	NA	--	1.43E+02	C	1.01E+03	C	1.25E+02	C	1.76E+01	C	3.54E+02	C	2.55E+01	C	2.36E-01	C
1,2,4,5-Tetrachlorobenzene	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	2.20E+03 *	NC	1.70E+02 *	NC	5.06E+02 *	NC	2.59E+03 +	NC	5.30E+01 #	NC	2.66E-02	NC
Tetrachloroethylene	9.09E-03	C	NA	--	5.30E+01	C	9.80E+03 *	C	5.27E+01	C	5.34E+00	C	3.40E+03	C	4.86E+00	C	1.85E-02	C
Tetrahydrofuran	2.81E-02	C	NA	--	3.77E+03	C	3.03E+04	C	3.35E+03	C	3.79E+02	C	7.49E+03	C	2.63E+03	C	4.61E+01	C
Tertiary-amyl-methyl-ether (TAME)	1.57E-01	NC	NA	--	4.09E+04 *	NC	1.69E+05 *	NC	3.29E+04 *	NC	1.90E+02	NC	6.03E+04	NC	4.87E+02	NC	1.03E+02	NC
Tertiary-butyl-alcohol (TBA)	5.86E-01	NC	NA	--	9.20E+04 *	NC	6.32E+05 *	NC	8.03E+04 *	NC	4.93E+04 *	NC	1.62E+05 +	NC	3.02E+05 #	NC	8.44E+02	NC
Toluene	9.54E+00	NC	NA	--	8.18E+04 *	NC	1.03E+07 *	NC	8.11E+04 *	NC	1.38E+04 *	NC	2.95E+06 +	NC	1.16E+04 #	NC	4.76E+01	NC
1,2,4-Trichlorobenzene	6.82E-03	NC	NA	--	7.95E+03 *	C	7.35E+03 *	NC	4.27E+03 *	NC	1.14E+03	NC	6.09E+03	NC	1.08E+02	NC	1.25E+00	C
1,3,5-Trichlorobenzene	7.79E-02	NC	NA	--	3.07E+03 *	NC	8.40E+04 *	NC	2.96E+03 *	NC	1.64E+03 *	NC	3.35E+04 +	NC	3.88E+02 #	NC	3.73E-01	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-7
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Outdoor Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
1,1,1-Trichloroethane	4.28E+00	NC	NA	--	2.86E+05 *	NC	4.62E+06 *	NC	2.69E+05 *	NC	1.90E+03 *	NC	1.48E+06 +	NC	2.26E+03 #	NC	3.13E+02	NC
1,1,2-Trichloroethane	3.41E-03	C	NA	--	5.02E+02	C	3.67E+03 *	C	4.42E+02	C	1.40E+01	C	1.17E+03	C	3.22E+01	C	1.11E+00	C
Trichloroethylene	2.73E-02	C	NA	--	2.20E+03 *	C	2.94E+04 *	C	2.05E+03 *	C	2.64E+01	C	9.29E+03	C	2.36E+01	C	2.64E+00	C
Trichlorofluoromethane	1.36E+00	NC	NA	--	3.07E+05 *	NC	1.47E+06 *	NC	2.54E+05 *	NC	1.81E+02	NC	4.22E+05	NC	1.16E+02	NC	3.26E+02	NC
2,4,5-Trichlorophenol	6.82E-01	NC	1.55E+05 *	NC	1.02E+05 *	NC	1.67E+06 *	NC	5.94E+04 *	NC	1.72E+07 *	NC	3.14E+05 +	NC	1.79E+06 #	NC	4.23E+01	NC
2,4,6-Trichlorophenol	6.82E-04	NC	1.55E+02	NC	1.02E+02	NC	7.35E+02	NC	5.68E+01	NC	3.01E+03 *	NC	3.97E+02 +	NC	1.26E+03 #	NC	2.74E-02	NC
1,2,3-Trichloropropane	9.54E-05	C	NA	--	1.43E+01	C	1.03E+02	C	1.26E+01	C	1.15E+00	C	3.60E+01	C	2.61E+00	C	1.76E-02	C
1,1,2-Trichlorotrifluoroethane	5.86E+01	NC	NA	--	3.07E+07 *	NC	6.32E+07 *	NC	2.06E+07 *	NC	1.44E+04 *	NC	5.48E+07 +	NC	2.77E+03 #	NC	2.06E+04 #	NC
1,2,4-Trimethylbenzene	1.17E-02	NC	NA	--	5.11E+04 *	NC	1.26E+04 *	NC	1.01E+04 *	NC	3.73E+02	NC	4.19E+03	NC	1.77E+01	NC	9.23E+00	NC
1,3,5-Trimethylbenzene	1.17E-02	NC	NA	--	5.11E+04 *	NC	1.26E+04 *	NC	1.01E+04 *	NC	5.96E+01	NC	4.19E+03	NC	1.25E+01	NC	8.55E+00	NC
1,3,5-Trinitrobenzene	2.04E-01	NC	4.65E+04 *	NC	3.07E+04 *	NC	7.26E+08 *	NC	1.85E+04 *	NC	2.13E+05 *	NC	1.28E+01 +	NC	9.59E+05 #	NC	2.93E+02 #	NC
2,4,6-Trinitrotoluene (TNT)	3.41E-03	NC	7.74E+02 *	NC	5.11E+02 *	NC	1.21E+07 *	NC	3.08E+02 *	NC	3.11E+04 *	NC	2.93E+02 +	NC	1.58E+04 #	NC	2.33E+00	NC
Vinyl chloride (for residential scenario)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Vinyl chloride (for occupational scenatio)	6.20E-03	C	NA	--	2.04E+01	C	6.68E+03 *	C	2.04E+01	C	5.99E-01	C	1.57E+03	C	1.55E+00	C	7.53E-02	C
Xylenes (total)	1.98E-01	NC	NA	--	2.04E+05 *	NC	2.13E+05 *	NC	1.04E+05 *	NC	6.63E+02 *	NC	7.60E+04 +	NC	2.69E+02 #	NC	1.18E+02	NC
Pesticides																		
Acetochlor	1.36E-01	NC	3.10E+04 *	NC	2.04E+04 *	NC	4.84E+08 *	NC	1.23E+04 *	NC	1.07E+06 *	NC	2.29E+03 +	NC	8.13E+05 #	NC	5.93E+01	NC
Acifluorfen	1.95E-02	NC	2.01E+04	NC	1.33E+04	NC	6.91E+07 *	NC	8.00E+03	NC	1.93E+07 *	NC	1.96E-02 +	NC	2.36E+07 #	NC	1.84E+03	NC
Acrolein	3.89E-05	NC	NA	--	5.11E+02	NC	4.20E+01	NC	3.88E+01	NC	5.10E-01	NC	9.37E+00	NC	1.94E+00	NC	1.66E+01	NC
Alachlor	2.39E-03	C	7.74E+02 *	C	5.11E+02 *	C	8.47E+06 *	C	3.08E+02	C	1.92E+04 *	C	5.08E+00 +	C	1.51E+04 #	C	4.02E-01	C
Aldicarb	6.82E-03	NC	1.55E+03 *	NC	1.02E+03	NC	7.35E+03 *	NC	5.68E+02	NC	8.16E+03 *	NC	2.04E+00 +	NC	3.51E+04 #	NC	9.60E+00	NC
Aldicarb sulfone	6.82E-03	NC	1.55E+03 *	NC	1.02E+03	NC	2.42E+07 *	NC	6.16E+02	NC	6.77E+03 *	NC	5.92E+00 +	NC	4.34E+04 #	NC	2.64E+02	NC
Aldrin	1.11E-05	C	2.55E+00	C	1.68E+00	C	3.47E+02	C	1.01E+00	C	4.60E+04 *	C	2.18E+01 +	C	3.18E+00 #	C	3.82E-03	C
Ametryn	6.13E-02	NC	1.39E+04 *	NC	9.20E+03 *	NC	2.18E+08 *	NC	5.54E+03 *	NC	9.69E+05 *	NC	7.36E+01 +	NC	3.97E+05 #	NC	1.09E+01	NC
Atrazine	8.67E-04	C	1.89E+02 *	C	1.24E+02 *	C	3.08E+06 *	C	7.49E+01	C	1.74E+04 *	C	1.04E+00 +	C	5.73E+03 #	C	1.55E-01	C
Baygon	2.73E-02	NC	6.19E+03 *	NC	4.09E+03 *	NC	9.68E+07 *	NC	2.46E+03 *	NC	1.26E+05 *	NC	1.88E+03	NC	1.16E+05 #	NC	NA	--
Butylate	3.41E-01	NC	7.74E+04 *	NC	5.11E+04 *	NC	3.67E+05 *	NC	2.84E+04 *	NC	4.69E+04 *	NC	1.83E+05 +	NC	5.32E+04 #	NC	1.29E+01	NC
Captan	8.30E-02	C	1.89E+04 *	C	1.24E+04 *	C	2.95E+08 *	C	7.49E+03 *	C	3.29E+05 *	C	7.30E+04 +	C	2.51E+05 #	C	5.02E+01 #	C
Carbaryl	7.50E-01	NC	1.55E+05 *	NC	1.02E+05 *	NC	8.08E+05 *	NC	5.72E+04 *	NC	1.02E+04 *	NC	7.24E+05 +	NC	1.38E+04 #	NC	2.29E+02 #	NC
Carbofuran	3.41E-02	NC	7.74E+03 *	NC	5.11E+03 *	NC	1.21E+08 *	NC	3.08E+03 *	NC	9.84E+04 *	NC	2.91E+01 +	NC	2.33E+05 #	NC	1.41E+01	NC
Carboxin	6.82E-01	NC	1.55E+05 *	NC	1.02E+05 *	NC	7.35E+05 *	NC	5.68E+04 *	NC	2.49E+02	NC	4.09E+05 +	NC	3.90E+01	NC	1.04E+02	NC
Chloramben	1.02E-01	NC	2.32E+04 *	NC	1.53E+04 *	NC	3.63E+08 *	NC	9.23E+03 *	NC	5.49E+05 *	NC	6.80E+03 +	NC	4.35E+05 #	NC	2.91E+01	NC
Chlordane (technical)	5.45E-04	C	1.24E+02 *	C	8.18E+01 *	C	7.14E+03 *	C	4.89E+01 *	C	3.95E+05 *	C	1.09E+03 +	C	5.56E+02 #	C	1.96E-03	C
Chlordane, gamma	5.45E-04	C	3.10E+02 *	C	8.18E+01 *	C	5.66E+03 *	C	6.40E+01 *	C	2.47E+05 *	C	4.31E+02 +	C	1.06E+02 #	C	7.32E-03	C
Chlorothalonil	6.16E-02	C	3.50E+04 *	C	9.23E+03 *	C	2.19E+08 *	C	7.30E+03 *	C	6.50E+06 *	C	1.53E+04 +	C	1.89E+05 #	C	3.26E+00 #	C
Chlorpyrifos	2.04E-02	NC	4.65E+03 *	NC	3.07E+03 *	NC	7.26E+07 *	NC	1.85E+03 *	NC	6.48E+05 *	NC	6.89E+03 +	NC	5.81E+04 #	NC	5.85E-01 #	NC
Coumaphos	4.77E-02	NC	1.08E+04 *	NC	7.15E+03 *	NC	1.69E+08 *	NC	4.31E+03 *	NC	3.46E+07 *	NC	7.84E+01 +	NC	3.65E+05 #	NC	2.78E+00 #	NC
Cyanazine	2.27E-04	C	5.16E+01	C	3.41E+01	C	2.45E+02	C	1.89E+01	C	3.96E-02	C	1.41E+02 +	C	1.47E-02	C	2.59E-01	C
Dacthal	6.82E-02	NC	1.55E+04 *	NC	1.02E+04 *	NC	2.42E+08 *	NC	6.16E+03 *	NC	2.39E+03 *	NC	7.95E-02 +	NC	8.52E+00 #	NC	1.60E+00 #	NC
Dalapon, sodium salt	2.04E-01	NC	4.65E+04 *	NC	3.07E+04 *	NC	2.20E+05 *	NC	1.70E+04 *	NC	1.28E+05 *	NC	2.19E+03 +	NC	8.44E+05 #	NC	1.45E+02	NC
DDD	7.95E-04	C	1.81E+02	C	1.19E+02	C	2.82E+06 *	C	7.18E+01	C	2.04E+07 *	C	5.58E+02 +	C	3.45E+03 #	C	3.52E-03	C

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-7
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Outdoor Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
DDE	5.61E-04	C	1.28E+02	C	8.42E+01	C	5.54E+04 *	C	5.07E+01	C	2.42E+07 *	C	7.77E+02 +	C	9.15E+02 #	C	2.83E-03	C
DDT	5.62E-04	C	1.28E+02	C	8.42E+01	C	2.00E+06 *	C	5.07E+01	C	2.91E+07 *	C	6.13E+02 +	C	1.87E+03 #	C	1.51E-03	C
DEF	2.04E-04	NC	1.55E+02	NC	3.07E+01	NC	7.26E+05 *	NC	2.56E+01	NC	2.30E+06 *	NC	1.46E+01 +	NC	1.23E+03 #	NC	1.01E-03	NC
Demeton	2.73E-04	NC	6.19E+02	NC	4.09E+02	NC	2.94E+02	NC	1.34E+02	NC	4.19E+01	NC	1.59E+02 +	NC	2.43E+01	NC	5.21E-01	NC
Diazinon	6.13E-03	NC	1.39E+03 *	NC	9.20E+02 *	NC	2.18E+07 *	NC	5.54E+02 *	NC	6.75E+04 *	NC	2.07E+02 +	NC	4.52E+04 #	NC	4.27E-01	NC
Dicamba	2.04E-01	NC	4.65E+04 *	NC	3.07E+04 *	NC	7.26E+08 *	NC	1.85E+04 *	NC	9.25E+05 *	NC	9.96E+01 +	NC	1.13E+06 #	NC	1.07E+02	NC
2,4-Dichlorophenoxy acetic acid (2,4-D)	6.82E-02	NC	1.55E+04 *	NC	1.02E+04 *	NC	2.42E+08 *	NC	6.16E+03 *	NC	2.09E+06 *	NC	1.59E+02 +	NC	3.85E+05 #	NC	1.73E+01	NC
4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	5.45E-02	NC	3.10E+04 *	NC	8.18E+03 *	NC	1.94E+08 *	NC	6.47E+03 *	NC	1.08E+06 *	NC	3.05E+01 +	NC	3.29E+05 #	NC	2.84E+00	NC
Dichloroprop (2,4-DP)	6.82E-02	NC	3.10E+04 *	NC	1.02E+04 *	NC	2.42E+08 *	NC	7.68E+03 *	NC	5.37E+04 *	NC	3.45E+02 +	NC	3.88E+05 #	NC	7.18E+00	NC
Dieldrin	1.19E-05	C	2.71E+00	C	1.79E+00	C	1.02E+02 *	C	1.07E+00	C	3.66E+03 *	C	1.76E+01 +	C	2.89E+01 #	C	5.34E-04	C
Dimethoate	1.36E-03	NC	3.10E+02	NC	2.04E+02	NC	4.84E+06 *	NC	1.23E+02	NC	1.97E+03	NC	2.81E-02	NC	6.61E+03	NC	1.29E+01	NC
2,4-Dinitro-6-sec-butylphenol (Dinoseb)	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	2.42E+07 *	NC	6.16E+02 *	NC	3.22E+04 *	NC	6.81E+02	NC	3.69E+04 #	NC	3.98E-01	NC
Diquat	1.50E-02	NC	3.41E+03	NC	2.25E+03	NC	5.32E+07 *	NC	1.35E+03	NC	3.65E+06 *	NC	1.56E-02 +	NC	2.68E+06 #	NC	3.48E+04	NC
Disulfoton	2.73E-04	NC	6.19E+01 *	NC	4.09E+01 *	NC	9.68E+05 *	NC	2.46E+01 *	NC	5.78E+01 *	NC	6.32E+01 +	NC	3.91E+02 #	NC	1.53E-02	NC
Diuron	1.36E-02	NC	3.10E+03 *	NC	2.04E+03 *	NC	4.84E+07 *	NC	1.23E+03 *	NC	8.97E+04 *	NC	4.11E+03 +	NC	3.76E+04 #	NC	3.48E+00	NC
Endosulfan	4.09E-02	NC	9.29E+03 *	NC	6.13E+03 *	NC	1.27E+05 *	NC	3.59E+03 *	NC	1.65E+06 *	NC	5.85E+04 +	NC	1.29E+05 #	NC	6.59E+00 #	NC
Endothall	1.36E-01	NC	3.10E+04	NC	2.04E+04	NC	1.47E+05 *	NC	1.14E+04	NC	8.07E+08 *	NC	1.36E-01	NC	9.19E+08 #	NC	8.28E+01	NC
Endrin	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	7.26E+06 *	NC	1.85E+02 *	NC	5.53E+05 *	NC	2.31E+03 +	NC	7.58E+03 #	NC	9.16E-02	NC
Endrin aldehyde	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	2.53E+04 *	NC	1.83E+02	NC	1.31E+06 *	NC	1.84E+03 +	NC	1.04E+02 #	NC	6.31E-03	NC
Endrin Ketone	1.95E-04	NC	4.65E+02	NC	3.07E+02	NC	6.91E+05 *	NC	1.85E+02	NC	1.23E+06 *	NC	4.33E+01 +	NC	1.20E+03 #	NC	2.79E-02	NC
Eptam	1.70E-01	NC	NA	--	2.56E+04 *	NC	1.84E+05 *	NC	2.24E+04 *	NC	2.91E+04 *	NC	8.43E+04 +	NC	1.87E+04 #	NC	1.90E+01	NC
Ethoprop	6.82E-04	NC	1.55E+02	NC	1.02E+02	NC	2.42E+06 *	NC	6.16E+01	NC	3.11E+04 *	NC	2.82E+01 +	NC	4.24E+03 #	NC	9.07E-02	NC
Fenamiphos	1.70E-03	NC	3.87E+02	NC	2.56E+02	NC	6.05E+06 *	NC	1.54E+02	NC	2.71E+04 *	NC	6.33E-01	NC	1.29E+04 #	NC	NA	--
Fenthion	4.77E-04	NC	1.08E+02	NC	7.15E+01	NC	1.69E+06 *	NC	4.31E+01	NC	1.76E+04 *	NC	5.55E+01 +	NC	2.64E+03 #	NC	9.24E-02	NC
Fluometuron	8.86E-02	NC	2.01E+04 *	NC	1.33E+04 *	NC	3.15E+08 *	NC	8.00E+03 *	NC	6.80E+05 *	NC	4.22E+01	NC	5.79E+05 #	NC	NA	--
Fonofos	1.36E-02	NC	3.10E+03 *	NC	2.04E+03 *	NC	4.84E+07 *	NC	1.23E+03 *	NC	5.52E+05 *	NC	5.65E+03 +	NC	2.59E+04 #	NC	5.04E-01	NC
alpha-Hexachlorocyclohexane	3.03E-05	C	6.88E+00	C	4.54E+00	C	6.19E+01 *	C	2.62E+00	C	5.29E+02 *	C	3.06E+01 +	C	7.13E+01 #	C	1.06E-03	C
beta-Hexachlorocyclohexane	1.03E-04	C	2.41E+01 *	C	1.59E+01 *	C	3.66E+05 *	C	9.58E+00 *	C	3.65E+03 *	C	1.44E+01 +	C	4.81E+02 #	C	3.59E-03	C
delta-Hexachlorocyclohexane	1.07E-04	C	2.41E+01	C	1.59E+01	C	3.80E+05 *	C	9.58E+00	C	1.38E+04 *	C	9.42E+00 +	C	5.43E+02 #	C	5.33E-03	C
gamma-Hexachlorocyclohexane	1.73E-04	C	3.94E+01	C	2.60E+01	C	3.06E+02 *	C	1.49E+01	C	2.26E+03 *	C	1.97E+02 +	C	3.49E+02 #	C	1.35E-02	C
Glyphosate	6.82E-01	NC	1.55E+05	NC	1.02E+05	NC	3.26E+06 *	NC	6.04E+04	NC	8.93E+14 *	NC	6.82E-01 +	NC	4.07E+13 #	NC	7.45E+04 #	NC
Guthion	1.02E-02	NC	2.32E+03 *	NC	1.53E+03 *	NC	3.63E+07 *	NC	9.23E+02 *	NC	3.06E+05 *	NC	1.64E-02 +	NC	1.87E+05 #	NC	6.09E+00 #	NC
Heptachlor	4.20E-05	C	9.64E+00	C	6.36E+00	C	4.53E+01	C	3.53E+00	C	1.40E+01	C	1.01E+02 +	C	1.81E-03	C	2.78E-03	C
Heptachlor epoxide	2.10E-05	C	4.76E+00	C	3.14E+00	C	7.44E+04 *	C	1.89E+00	C	3.41E+04 *	C	2.66E+01 +	C	6.92E+01 #	C	5.56E-04	C
Hexazinone	2.25E-01	NC	5.11E+04 *	NC	3.37E+04 *	NC	7.99E+08 *	NC	2.03E+04 *	NC	5.43E+06 *	NC	2.52E-01 +	NC	1.50E+07 #	NC	1.43E+02	NC
Malathion	1.36E-01	NC	3.10E+04 *	NC	2.04E+04 *	NC	4.84E+08 *	NC	1.23E+04 *	NC	1.23E+07 *	NC	1.11E+03 +	NC	1.14E+06 #	NC	1.25E+02	NC
Maleic hydrazide	3.41E+00	NC	7.74E+05 *	NC	5.11E+05 *	NC	3.67E+06 *	NC	2.84E+05 *	NC	5.57E+06 *	NC	1.56E+01 +	NC	1.45E+07 #	NC	8.64E+04 #	NC
Maneb	3.41E-02	NC	7.74E+03 *	NC	5.11E+03 *	NC	1.21E+08 *	NC	3.08E+03 *	NC	6.47E+05 *	NC	4.35E+03	NC	1.91E+05 #	NC	NA	--
Methomyl	1.70E-01	NC	3.87E+04 *	NC	2.56E+04 *	NC	1.84E+05 *	NC	1.42E+04 *	NC	1.48E+05 *	NC	4.85E+00 +	NC	6.52E+05 #	NC	6.20E+02	NC
Methoxychlor	3.41E-02	NC	7.74E+03 *	NC	5.11E+03 *	NC	5.69E+05 *	NC	3.06E+03 *	NC	4.01E+07 *	NC	4.43E+04 +	NC	6.94E+04 #	NC	2.24E-01 #	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-7
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Outdoor Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	3.41E-03	NC	7.74E+02	NC	5.11E+02	NC	1.21E+07 *	NC	3.08E+02	NC	1.23E+04 *	NC	9.96E-01 +	NC	1.85E+04 #	NC	2.35E-01	NC
MCPP	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	2.42E+07 *	NC	6.16E+02 *	NC	5.42E+03 *	NC	3.87E+01 +	NC	3.92E+04 #	NC	7.68E-01	NC
Metolachlor	1.02E+00	NC	2.32E+05 *	NC	1.53E+05 *	NC	3.63E+09 *	NC	9.23E+04 *	NC	3.17E+07 *	NC	2.69E+03 +	NC	7.38E+06 #	NC	2.63E+02	NC
Metribuzin	1.70E-01	NC	3.87E+04 *	NC	2.56E+04 *	NC	6.05E+08 *	NC	1.54E+04 *	NC	2.37E+06 *	NC	2.47E-01	NC	3.35E+06 #	NC	1.27E+03 #	NC
Mirex	1.06E-05	C	2.41E+00	C	1.59E+00	C	1.14E+01	C	8.84E-01	C	1.29E+01	C	8.12E+00 +	C	3.93E-01	C	NA	--
Naled	1.36E-02	NC	3.10E+03 *	NC	2.04E+03 *	NC	4.84E+07 *	NC	1.23E+03	NC	5.81E+04 *	NC	1.27E+03 +	NC	6.28E+04 #	NC	5.19E+01	NC
o,o,o-Triethylphosphorothioate	5.66E-05	NC	NA	--	8.48E+00	NC	6.10E+01	NC	7.45E+00	NC	4.27E+00	NC	2.88E+01	NC	1.42E+00	NC	1.21E-02	NC
Oxamyl	1.70E-01	NC	3.87E+04	NC	2.56E+04	NC	6.05E+08 *	NC	1.54E+04	NC	2.06E+05 *	NC	1.07E+01 +	NC	1.11E+06 #	NC	1.43E+04	NC
Paraquat	3.07E-02	NC	6.97E+03	NC	4.60E+03	NC	1.09E+08 *	NC	2.77E+03	NC	2.92E+07	NC	1.29E+01 +	NC	3.18E+05	NC	5.01E+05	NC
ethyl-Parathion	4.09E-02	NC	9.29E+03 *	NC	6.13E+03 *	NC	1.45E+08 *	NC	3.69E+03 *	NC	7.92E+06 *	NC	5.56E+03 +	NC	2.38E+05 #	NC	2.69E+00	NC
methyl-Parathion	1.70E-03	NC	3.87E+02	NC	2.56E+02	NC	6.05E+06 *	NC	1.54E+02	NC	2.26E+05 *	NC	3.01E+01 +	NC	7.45E+03 #	NC	4.80E-01	NC
Pendimethalin	2.73E-01	NC	6.19E+04 *	NC	4.09E+04 *	NC	9.68E+08 *	NC	2.46E+04 *	NC	1.61E+09 *	NC	4.93E+04 +	NC	1.42E+06 #	NC	1.72E+00 #	NC
Phenylmercuric acetate	5.45E-04	NC	1.24E+02	NC	8.18E+01	NC	1.94E+06 *	NC	4.93E+01	NC	1.36E+03	NC	5.82E-02 +	NC	2.54E+03	NC	4.44E+00	NC
Phorate	1.36E-03	NC	3.10E+02 *	NC	2.04E+02	NC	4.84E+06 *	NC	1.23E+02	NC	6.07E+03 *	NC	3.49E+02 +	NC	1.50E+03 #	NC	1.46E-01	NC
Picloram	4.77E-01	NC	1.08E+05 *	NC	7.15E+04 *	NC	5.14E+05 *	NC	3.98E+04 *	NC	3.62E+01	NC	2.33E+05 +	NC	1.54E+00	NC	8.56E+01	NC
Prometon	1.02E-01	NC	2.32E+04 *	NC	1.53E+04 *	NC	3.63E+08 *	NC	9.23E+03 *	NC	2.21E+06 *	NC	5.46E+01 +	NC	6.82E+05 #	NC	1.81E+01	NC
Pronamide	5.11E-01	NC	1.16E+05 *	NC	7.67E+04 *	NC	1.81E+09 *	NC	4.62E+04 *	NC	1.51E+06 *	NC	8.85E+04 +	NC	1.15E+06 #	NC	3.88E+01 #	NC
Propachlor	8.86E-02	NC	2.01E+04 *	NC	1.33E+04 *	NC	3.15E+08 *	NC	8.00E+03 *	NC	6.52E+05 *	NC	1.69E+03	NC	3.84E+05 #	NC	NA	--
Propanil	3.41E-02	NC	7.74E+03 *	NC	5.11E+03 *	NC	1.21E+08 *	NC	3.08E+03 *	NC	1.05E+06 *	NC	3.47E+01 +	NC	1.91E+05 #	NC	4.99E+00	NC
Propazine	4.24E-03	C	9.64E+02 *	C	6.36E+02 *	C	1.51E+07 *	C	3.83E+02 *	C	2.90E+04 *	C	5.12E+00 +	C	2.75E+04 #	C	4.40E-01	C
Propham	1.36E-01	NC	3.10E+04 *	NC	2.04E+04 *	NC	1.47E+05 *	NC	1.14E+04 *	NC	5.23E+05 *	NC	1.22E+03 +	NC	7.86E+05 #	NC	2.46E+01	NC
Silvex (2,4,5-TP)	5.45E-02	NC	1.24E+04 *	NC	8.18E+03 *	NC	1.94E+08 *	NC	4.93E+03 *	NC	1.63E+05 *	NC	1.27E+02 +	NC	3.47E+05 #	NC	3.89E+00	NC
Simazine	1.59E-03	C	3.61E+02 *	C	2.38E+02 *	C	5.65E+06 *	C	1.44E+02 *	C	8.80E+03 *	C	1.26E+00 +	C	9.22E+03 #	C	3.45E-01	C
Strychnine	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	7.26E+06 *	NC	1.85E+02 *	NC	4.13E+05 *	NC	2.07E-03 +	NC	6.69E+05 #	NC	3.75E+00	NC
Tebuthiuron	4.77E-01	NC	1.08E+05 *	NC	7.15E+04 *	NC	1.69E+09 *	NC	4.31E+04 *	NC	4.11E+06 *	NC	6.25E-01 +	NC	1.26E+07 #	NC	4.52E+02	NC
Terbacil	8.86E-02	NC	2.01E+04 *	NC	1.33E+04 *	NC	3.15E+08 *	NC	8.00E+03 *	NC	1.95E+05 *	NC	2.49E+00	NC	5.13E+05 #	NC	NA	--
Terbufos	1.70E-04	NC	3.87E+01 *	NC	2.56E+01 *	NC	1.84E+02 *	NC	1.42E+01	NC	4.20E+02 *	NC	1.01E+02	NC	1.04E+02 #	NC	6.40E-03	NC
Terbutryn	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	2.42E+07 *	NC	6.16E+02 *	NC	4.03E+05 *	NC	5.29E+01 +	NC	4.13E+04 #	NC	3.62E-01	NC
Toxaphene	1.70E-04	C	3.94E+01	C	2.60E+01	C	6.05E+05 *	C	1.57E+01	C	1.17E+06 *	C	1.86E+02 +	C	7.67E+02 #	C	6.28E-03	C
Triallate	8.86E-02	NC	2.01E+04 *	NC	1.33E+04 *	NC	1.31E+05 *	NC	7.54E+03 *	NC	8.13E+05 *	NC	4.74E+04 +	NC	6.07E+04 #	NC	2.12E+00	NC
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	6.82E-02	NC	1.55E+04 *	NC	1.02E+04 *	NC	2.42E+08 *	NC	6.16E+03 *	NC	1.42E+05 *	NC	1.12E+02 +	NC	3.13E+05 #	NC	8.18E+00	NC
Trifluralin	2.48E-02	C	5.63E+03 *	C	3.72E+03 *	C	1.29E+05 *	C	2.20E+03 *	C	2.82E+06 *	C	3.68E+04 +	C	3.45E+04 #	C	2.47E-01	C
Warfarin	1.95E-04	NC	4.65E+02 *	NC	3.07E+02 *	NC	6.91E+05 *	NC	1.85E+02 *	NC	9.12E+03 *	NC	1.83E-01 +	NC	1.64E+03 #	NC	3.93E-01	NC
Metals																		
Aluminum	9.74E-03	NC	1.55E+07	NC	1.02E+06	NC	3.46E+07	NC	9.33E+05	NC	N/A --		N/A --		N/A --		3.10E+04	NC
Antimony	9.74E-05	NC	6.19E+03	NC	4.09E+02	NC	3.46E+05	NC	3.83E+02	NC	N/A --		N/A --		N/A --		1.24E+01	NC
Arsenic	1.27E-05	C	9.64E+01	C	1.91E+01	C	4.52E+04	C	1.59E+01	C	N/A --		N/A --		N/A --		5.78E-01	C
Barium	9.54E-04	NC	3.10E+06	NC	2.04E+05	NC	3.39E+06	NC	1.81E+05	NC	N/A --		N/A --		N/A --		6.19E+03	NC
Beryllium	2.27E-05	C	5.16E+01	C	3.41E+00	C	8.06E+04	C	3.19E+00	C	N/A --		N/A --		N/A --		1.03E-01	C
Cadmium	3.03E-05	C	1.14E+04	C	7.53E+01	C	1.08E+05	C	7.48E+01	C	N/A --		N/A --		N/A --		2.28E+00	C
Chromium (III) total chromium	1.98E-04	NC	2.32E+07	NC	1.53E+06	NC	7.02E+05	NC	4.72E+05	NC	N/A --		N/A --		N/A --		4.65E+04	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available N/A: Not applicable

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-7
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Outdoor Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
Chromium (VI)	4.54E-06	C	1.03E+01	C	6.81E-01	C	1.61E+04	C	6.39E-01	C	N/A	--	N/A	--	N/A	--	1.03E-02	C
Copper	1.95E-03	NC	6.19E+05	NC	4.09E+04	NC	6.91E+06	NC	3.81E+04	NC	N/A	--	N/A	--	N/A	--	1.24E+03	NC
Lead	NA	--	NA	--	NA	--	NA	--	6.60E+02	--	6.60E+02	--	N/A	--	N/A	--	NA	--
Manganese	9.75E-05	NC	2.17E+06	NC	1.43E+05	NC	3.46E+05	NC	9.67E+04	NC	N/A	--	N/A	--	N/A	--	4.34E+03	NC
Mercury	5.84E-04	NC	NA	--	NA	--	6.30E+02 *	NC	6.30E+02 *	NC	5.72E+01 *	NC	5.12E+02 +	NC	1.16E+00 #	NC	NA	--
Molybdenum	9.74E-03	NC	7.74E+04	NC	5.11E+03	NC	3.46E+07	NC	4.79E+03	NC	N/A	--	N/A	--	N/A	--	1.55E+02	NC
Nickel	1.75E-04	NC	3.10E+05	NC	2.04E+04	NC	6.22E+05	NC	1.86E+04	NC	N/A	--	N/A	--	N/A	--	3.10E+03	NC
Selenium	3.89E-04	NC	7.74E+04	NC	5.11E+03	NC	1.38E+06	NC	4.78E+03	NC	N/A	--	N/A	--	N/A	--	1.55E+02	NC
Silver	1.95E-05	NC	7.74E+04	NC	5.11E+03	NC	6.91E+04	NC	4.48E+03	NC	N/A	--	N/A	--	N/A	--	2.58E+02	NC
Strontium	NA	--	9.29E+06	NC	6.13E+05	NC	NA	--	5.75E+05	NC	N/A	--	N/A	--	N/A	--	1.86E+04	NC
Thallium chloride	1.95E-04	NC	1.24E+03	NC	8.18E+01	NC	6.91E+05 *	NC	7.67E+01	NC	N/A	--	N/A	--	N/A	--	2.48E+00	NC
Vanadium	9.74E-05	NC	1.08E+05	NC	7.15E+03	NC	3.46E+05	NC	6.58E+03	NC	N/A	--	N/A	--	N/A	--	2.17E+02	NC
Zinc	NA	--	4.65E+06	NC	3.07E+05	NC	NA	--	2.88E+05	NC	N/A	--	N/A	--	N/A	--	1.55E+04	NC
Inorganics																		
Ammonia	1.95E-01	NC	NA	--	NA	--	2.10E+05 *	NC	2.10E+05 *	NC	2.36E+02	NC	2.00E+04	NC	1.49E+03	NC	NA	--
Cyanide	9.74E-03	NC	3.10E+04	NC	2.04E+04	NC	3.46E+07 *	NC	1.23E+04	NC	N/A	--	N/A	--	N/A	--	6.19E+02	NC
Cyanide (as Sodium Cyanide)	NA	--	6.19E+04	NC	4.09E+04	NC	NA	--	2.46E+04	NC	N/A	--	N/A	--	N/A	--	1.24E+03	NC
Cyanogen bromide	6.13E-01	NC	1.39E+05 *	NC	9.20E+04 *	NC	6.61E+05 *	NC	5.11E+04 *	NC	2.75E+02	NC	1.72E+05	NC	8.89E+02	NC	2.79E+03	NC
Fluoride (as Sodium Fluoride)	NA	--	NA	--	NA	--	NA	--	NA	--	N/A	--	N/A	--	N/A	--	NA	--
Perchlorate	NA	--	1.08E+03	NC	7.15E+02	NC	NA	--	4.31E+02	NC	N/A	--	N/A	--	N/A	--	2.17E+01	NC
White phosphorus	1.95E-04	NC	3.10E+01 *	NC	2.04E+01	NC	2.10E+02 *	NC	1.16E+01	NC	3.45E+00	NC	2.83E+01	NC	5.20E-01	NC	6.19E-01	NC
Total Petroleum Hydrocarbons																		
TPH-GRO	3.85E+01	NC	NA	--	5.25E+06 *	NC	4.15E+07 *	NC	4.65E+06 *	NC	9.62E+03 *	NC	1.04E+07 +	NC	4.54E+02 #	NC	NA	--
Aliphatics - > C6-C8	3.61E+01	NC	NA	--	5.11E+06 *	NC	3.89E+07 *	NC	4.52E+06 *	NC	6.16E+03 *	NC	9.72E+06 +	NC	2.13E+02 #	NC	NA	--
Aliphatics - > C8-C10	1.98E+00	NC	NA	--	1.02E+05 *	NC	2.13E+06 *	NC	9.75E+04 *	NC	1.34E+03 *	NC	5.32E+05 +	NC	7.28E+00 #	NC	NA	--
Aromatics - >C8-C10	3.89E-01	NC	NA	--	4.09E+04 *	NC	4.19E+05 *	NC	3.72E+04 *	NC	2.11E+03 *	NC	1.05E+05 +	NC	2.34E+02 #	NC	NA	--
TPH-DRO	4.73E+00	NC	3.57E+06 *	NC	2.36E+06 *	NC	5.10E+06 *	NC	1.41E+06 *	NC	1.09E+05 *	NC	1.27E+06 +	NC	2.83E+03 #	NC	NA	--
Aliphatics - >C10-C12	1.98E+00	NC	1.55E+05 *	NC	1.02E+05 *	NC	2.13E+06 *	NC	5.98E+04 *	NC	6.76E+03 *	NC	5.32E+05 +	NC	4.85E+00 #	NC	NA	--
Aliphatics - >C12-C16	1.98E+00	NC	1.55E+05 *	NC	1.02E+05 *	NC	2.13E+06 *	NC	5.98E+04 *	NC	3.08E+04 *	NC	5.32E+05 +	NC	1.12E+00 #	NC	NA	--
Aliphatics - >C16-C21	NA	--	3.10E+06 *	NC	2.04E+06 *	NC	NA	--	1.23E+06 *	NC	NA	--	NA	--	NA	--	NA	--
Aromatics - >C10-C12	3.89E-01	NC	6.19E+04 *	NC	4.09E+04 *	NC	4.19E+05 *	NC	2.33E+04 *	NC	1.14E+04 *	NC	1.04E+05 +	NC	7.86E+02 #	NC	NA	--
Aromatics - >C12-C16	3.89E-01	NC	6.19E+04 *	NC	4.09E+04 *	NC	4.19E+05 *	NC	2.33E+04 *	NC	5.95E+04 *	NC	1.04E+05 +	NC	2.04E+03 #	NC	NA	--
Aromatics - >C16-C21	NA	--	3.57E+04 *	NC	3.07E+04 *	NC	NA	--	1.65E+04 *	NC	NA	--	NA	--	NA	--	NA	--
TPH-ORO	NA	--	3.13E+06 *	NC	2.07E+06 *	NC	NA	--	1.25E+06 *	NC	NA	--	NA	--	NA	--	NA	--
Aliphatics - >C21-C35	NA	--	3.10E+06 *	NC	2.04E+06 *	NC	NA	--	1.23E+06 *	NC	NA	--	NA	--	NA	--	NA	--
Aromatics - >C21-C35	NA	--	3.57E+04 *	NC	3.07E+04 *	NC	NA	--	1.65E+04 *	NC	NA	--	NA	--	NA	--	NA	--

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available N/A: Not applicable

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-11
Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway

Chemicals of Concern	Groudwater Target Concentrations at Point of Exposure (mg/L)		Soil Concentrations Protective of Domestic Use of Groundwater Pathway (mg/kg)		
			Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
VOCs and SVOCs					
Acenaphthene	1.65E-01	NC	1.74E+02	1.75E+02	1.75E+02
Acenaphthylene	1.70E-01	NC	1.75E+02	1.75E+02	1.75E+02
Acetone	2.97E+00	NC	4.20E+00	8.61E+00	1.06E+01
Acetonitrile	5.64E-02	NC	2.06E-01	2.90E-01	3.27E-01
Acrylamide	1.49E-04	C	1.31E-03	1.53E-03	1.63E-03
Acrylic acid	7.77E+00	NC	1.16E+01	2.32E+01	2.83E+01
Acrylonitrile	4.68E-04	C	6.92E-04	1.39E-03	1.70E-03
Allyl alcohol	7.78E-02	NC	4.45E-01	5.61E-01	6.12E-01
Allyl chloride	4.40E-03	NC	3.86E-02	4.52E-02	4.81E-02
Aniline	1.08E-01	NC	2.90E-01	4.51E-01	5.23E-01
Anthracene	6.96E-01	NC	3.06E+03	3.06E+03	3.06E+03
Aroclor 1016	1.96E-04	NC	5.26E+00	5.26E+00	5.27E+00
Aroclor 1221	1.13E-04	C	9.75E-02	9.77E-02	9.77E-02
Aroclor 1242	5.93E-05	C	5.57E-02	5.58E-02	5.58E-02
Aroclor 1248	3.50E-05	C	1.44E+00	1.44E+00	1.44E+00
Aroclor 1254	3.06E-05	C	2.42E+00	2.42E+00	2.42E+00
Aroclor 1260	3.35E-05	C	3.34E+01	3.34E+01	3.34E+01
Azobenzene	8.61E-04	C	6.82E+00	6.82E+00	6.82E+00
Benzene	5.00E-03	M	5.61E-02	6.30E-02	6.55E-02
Benzidine	2.88E-06	C	7.47E-02	7.47E-02	7.47E-02
Benzo(a)anthracene	1.03E-04	C	6.12E+00	6.12E+00	6.12E+00
Benzo(a)pyrene	2.00E-04	M	3.04E+01	3.04E+01	3.04E+01
Benzo(b)fluoranthene	6.27E-05	C	1.15E+01	1.15E+01	1.15E+01
Benzo(g,h,i)perylene	2.64E-02	NC	6.21E+03	6.21E+03	6.21E+03
Benzo(k)fluoranthene	6.46E-04	C	1.18E+02	1.18E+02	1.18E+02
Benzoic acid	6.00E+01	NC	8.48E+01	1.74E+02	2.14E+02
Benzyl alcohol	4.63E+00	NC	1.44E+01	2.13E+01	2.44E+01
1,1-Biphenyl	1.46E-01	NC	3.07E+01	3.10E+01	3.10E+01
Bis(2-chloroethyl)ether	1.23E-04	C	4.49E-04	6.32E-04	7.14E-04
Bis(2-chloroisopropyl)ether	3.23E-03	C	3.18E-02	3.66E-02	3.87E-02
Bis(chloromethyl)ether	6.50E-07	C	1.00E-06	1.97E-06	2.39E-06
Bis(2-ethylhexyl)phthalate	6.00E-03	M	1.35E+04	1.35E+04	1.35E+04
Bromochloromethane	5.44E-02	NC	3.05E-01	3.85E-01	4.20E-01
Bromodichloromethane	8.00E-02	M	7.87E-01	9.03E-01	9.53E-01
Bromoform	8.00E-02	M	1.15E+00	1.27E+00	1.32E+00
Bromomethane	4.67E-03	NC	1.85E-02	2.48E-02	2.71E-02
4-Bromophenyl phenyl ether	1.07E-05	C	2.72E-02	2.72E-02	2.72E-02
n-Butylbenzene	9.89E-02	NC	4.16E+01	4.18E+01	4.18E+01
sec-Butylbenzene	1.06E-01	NC	3.52E+01	3.53E+01	3.54E+01
tert-Butylbenzene	1.03E-01	NC	3.41E+01	3.42E+01	3.43E+01

Notes:

M: Maximum contaminant level (MCL)

C: Value was calculated based on carcinogenic effect.

NC: Value was calculated based on non-carcinogenic effect.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-11
Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway

Chemicals of Concern	Groudwater Target Concentrations at Point of Exposure (mg/L)		Soil Concentrations Protective of Domestic Use of Groundwater Pathway (mg/kg)		
			Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
Butyl benzyl phthalate	1.55E+00	NC	1.33E+04	1.33E+04	1.33E+04
Carbazole	2.64E-02	C	1.33E+01	1.34E+01	1.34E+01
Carbon disulfide	5.27E-01	NC	7.53E+00	7.99E+00	7.90E+00
Carbon tetrachloride	5.00E-03	M	1.67E-01	1.71E-01	1.71E-01
p-Chloroaniline	6.06E-02	NC	6.77E-01	7.67E-01	8.07E-01
Chlorobenzene	5.58E-02	NC	1.94E+00	2.02E+00	2.05E+00
Chloroethane	4.85E-02	C	2.81E-01	3.42E-01	3.60E-01
Chloroform	8.00E-02	M	6.40E-01	7.53E-01	7.98E-01
Chloromethane	1.83E-02	C	2.08E-01	2.26E-01	2.27E-01
2-Chloronaphthalene	2.33E-01	NC	5.58E+01	5.62E+01	5.63E+01
2-Chlorophenol	1.63E-02	NC	9.63E-01	9.87E-01	9.97E-01
4-Chlorophenyl phenyl ether	1.06E-05	C	2.06E-02	2.06E-02	2.06E-02
2-Chlorotoluene	6.19E-02	NC	3.88E+00	3.97E+00	4.00E+00
4-Chlorotoluene	3.10E-04	NC	2.35E-02	2.40E-02	2.41E-02
Chrysene	1.03E-02	C	6.12E+02	6.12E+02	6.12E+02
Dibenzo(a,h)anthracene	4.21E-06	C	2.38E+00	2.38E+00	2.38E+00
Dibenzofuran	5.67E-03	NC	6.56E+00	6.56E+00	6.57E+00
Dibromochloromethane	8.00E-02	M	8.70E-01	9.88E-01	1.04E+00
1,2-Dibromo-3-chloropropane	2.00E-04	M	1.10E-03	1.40E-03	1.53E-03
Dibutyl phthalate	1.08E+00	NC	5.46E+03	5.47E+03	5.47E+03
1,2-Dichlorobenzene	6.00E-01	M	5.61E+01	5.70E+01	5.74E+01
1,3-Dichlorobenzene	8.93E-02	NC	8.39E+00	8.52E+00	8.58E+00
1,4-Dichlorobenzene	7.50E-02	M	7.02E+00	7.13E+00	7.18E+00
3,3-Dichlorobenzidine	1.19E-03	C	1.30E-01	1.32E-01	1.32E-01
Dichlorodifluoromethane	2.20E-01	NC	6.67E+00	6.55E+00	6.10E+00
1,1-Dichloroethane	2.49E-02	C	1.80E-01	2.15E-01	2.27E-01
1,1-Dichloroethylene	7.00E-03	M	1.08E-01	1.15E-01	1.14E-01
cis-1,2-Dichloroethylene	7.00E-02	M	5.21E-01	6.19E-01	6.58E-01
trans-1,2-Dichloroethylene	1.00E-01	M	1.10E+00	1.23E+00	1.28E+00
2,4-Dichlorophenol	3.89E-02	NC	9.03E-01	9.61E-01	9.87E-01
1,2-Dichloropropane	5.00E-03	M	4.20E-02	4.91E-02	5.21E-02
1,3-Dichloropropene	4.31E-03	C	5.06E-02	5.55E-02	5.63E-02
Di(2-ethylhexyl)adipate	4.00E-01	M	2.26E+04	2.26E+04	2.26E+04
Diethyl phthalate	1.19E+01	NC	5.24E+02	5.41E+02	5.49E+02
Diisopropyl ether (DIPE)	3.51E-01	NC	4.12E+00	4.61E+00	4.81E+00
2,4-Dimethylphenol	2.89E-01	NC	9.37E+00	9.80E+00	9.99E+00
2,6-Dimethylphenol	9.39E-03	NC	2.25E+00	2.26E+00	2.27E+00
Dimethyl phthalate	1.54E+02	NC	1.12E+03	1.35E+03	1.45E+03
1,3-Dinitrobenzene	1.53E-03	NC	2.62E-02	2.85E-02	2.95E-02
2,4-Dinitrophenol	3.08E-02	NC	4.08E-02	8.66E-02	1.07E-01

Notes:

M: Maximum contaminant level (MCL)

C: Value was calculated based on carcinogenic effect.

NC: Value was calculated based on non-carcinogenic effect.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-11
Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway

Chemicals of Concern	Groudwater Target Concentrations at Point of Exposure (mg/L)		Soil Concentrations Protective of Domestic Use of Groundwater Pathway (mg/kg)		
			Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
2,4-Dinitrotoluene	2.09E-03	C	3.25E-02	3.56E-02	3.69E-02
2,6-Dinitrotoluene	9.64E-04	C	1.12E-02	1.26E-02	1.33E-02
4-Amino-2,6-dinitrotoluene	2.47E-03	NC	1.37E-01	1.40E-01	1.42E-01
2-Amino-4,6-dinitrotoluene	2.41E-03	NC	2.05E-01	2.09E-01	2.10E-01
Di-n-octylphthalate	2.13E-01	NC	7.58E+01	7.61E+01	7.63E+01
1,4-Dioxane	6.10E-02	C	2.35E-01	3.26E-01	3.66E-01
Diphenylamine	3.09E-01	NC	2.80E+01	2.85E+01	2.87E+01
1,2-Diphenylhydrazine	7.22E-04	C	7.20E-02	7.31E-02	7.36E-02
Ethanol	5.15E+02	NC	7.73E+02	1.54E+03	1.88E+03
Ethylbenzene	7.00E-01	M	3.99E+01	4.08E+01	4.11E+01
Ethylene dibromide (EDB)	5.00E-05	M	4.73E-04	5.47E-04	5.79E-04
Ethylene dichloride (EDC)	5.00E-03	M	2.06E-02	2.79E-02	3.11E-02
Ethylene glycol	3.13E+01	NC	6.00E+01	1.07E+02	1.27E+02
Ethylene thiourea	1.25E-03	NC	3.51E-03	5.38E-03	6.20E-03
Ethyl-tert-butyl-ether (ETBE)	1.44E-02	NC	1.06E-01	1.27E-01	1.35E-01
Fluoranthene	1.64E-01	NC	2.61E+03	2.61E+03	2.61E+03
Fluorene	1.03E-01	NC	2.11E+02	2.11E+02	2.11E+02
Formaldehyde	1.47E-02	C	2.42E-02	4.60E-02	5.57E-02
n-Hexane	8.30E-01	NC	4.15E+02	3.86E+02	3.46E+02
Hexachlorobenzene	1.00E-03	M	8.19E+00	8.19E+00	8.19E+00
Hexachlorobutadiene	2.00E-03	NC	1.60E+01	1.60E+01	1.60E+01
Hexachlorocyclopentadiene	5.00E-02	M	1.49E+03	1.49E+03	1.49E+03
Hexachloroethane	1.06E-02	NC	2.84E+00	2.85E+00	2.86E+00
Hexachlorophene	5.70E-04	NC	4.25E-01	4.26E-01	4.26E-01
HMX	7.82E-01	NC	5.34E+00	6.51E+00	7.02E+00
Indeno(1,2,3-cd)pyrene	3.82E-05	C	1.97E+01	1.97E+01	1.97E+01
Isophorone	6.86E-01	C	5.69E+00	6.71E+00	7.16E+00
Isopropylbenzene (Cumene)	3.30E-01	NC	2.85E+01	2.85E+01	2.79E+01
4-Isopropyltoluene	7.86E-01	NC	2.71E+02	2.72E+02	2.72E+02
Maleic anhydride	1.51E+00	NC	7.79E+00	1.00E+01	1.10E+01
Methanol	7.81E+00	NC	2.08E+01	3.24E+01	3.76E+01
Methyl butyl ketone	4.75E-03	NC	1.90E-02	2.61E-02	2.92E-02
Methyl ethyl ketone	3.64E+00	NC	7.30E+00	1.27E+01	1.51E+01
2-Methyl-4,6-dinitrophenol	1.51E-03	NC	2.00E-03	4.24E-03	5.24E-03
Methylene chloride	5.00E-03	M	1.76E-02	2.48E-02	2.78E-02
Methyl iodide	8.59E-03	NC	2.23E-01	2.34E-01	2.39E-01
Methyl isobutyl ketone	9.15E-01	NC	1.95E+01	2.09E+01	2.15E+01
2-Methylnaphthalene	1.17E-02	NC	7.55E+00	7.56E+00	7.57E+00
2-Methylphenol	7.43E-01	NC	1.11E+01	1.22E+01	1.27E+01
3-Methylphenol	7.42E-01	NC	4.81E+00	5.91E+00	6.40E+00

Notes:

M: Maximum contaminant level (MCL)

C: Value was calculated based on carcinogenic effect.

NC: Value was calculated based on non-carcinogenic effect.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-11
Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway

Chemicals of Concern	Groudwater Target Concentrations at Point of Exposure (mg/L)		Soil Concentrations Protective of Domestic Use of Groundwater Pathway (mg/kg)		
			Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
4-Methylphenol	7.43E-02	NC	6.40E-01	7.51E-01	8.00E-01
Methyl teriary butyl ether (MTBE)	1.28E-01	C	3.98E-01	5.87E-01	6.70E-01
Methyl-2,4,6-trinitrophenylnitramine	1.54E-01	NC	5.57E+00	5.80E+00	5.90E+00
Naphthalene	1.09E-03	C	3.25E-01	3.27E-01	3.27E-01
2-Nitroaniline	4.48E-02	NC	2.39E-01	3.05E-01	3.35E-01
3-Nitroaniline	4.57E-03	NC	3.29E-02	3.97E-02	4.27E-02
4-Nitroaniline	3.16E-02	C	9.46E-02	1.42E-01	1.63E-01
Nitrobenzene	1.81E-03	NC	1.98E-02	2.25E-02	2.37E-02
Nitroglycerin	1.07E-03	NC	1.61E-02	1.77E-02	1.84E-02
2-Nitrophenol	3.03E-02	NC	1.34E-01	1.79E-01	1.99E-01
4-Nitrophenol	3.01E-02	NC	5.39E-02	9.87E-02	1.19E-01
n-Nitrosodimethylamine	1.32E-05	C	4.09E-05	6.05E-05	6.92E-05
n-Nitrosodi-n-propylamine	9.41E-05	C	4.04E-04	5.44E-04	6.07E-04
n-Nitrosodiphenylamine	1.14E-01	C	2.20E+01	2.22E+01	2.22E+01
n-Nitrosopyrrolidine	3.19E-04	C	4.53E-04	9.27E-04	1.14E-03
2-Nitrotoluene	6.04E-04	C	1.35E-02	1.44E-02	1.48E-02
3-Nitrotoluene	6.49E-02	NC	1.44E+00	1.54E+00	1.58E+00
4-Nitrotoluene	8.18E-03	C	1.82E-01	1.94E-01	2.00E-01
Pentachlorobenzene	3.28E-03	NC	1.96E+01	1.96E+01	1.96E+01
Pentachloronitrobenzene	1.31E-03	C	5.19E+00	5.19E+00	5.19E+00
Pentachlorophenol	1.00E-03	M	8.94E-02	9.09E-02	9.16E-02
Pentaerythritol tetranitrate	5.06E+00	NC	4.74E+03	4.75E+03	4.75E+03
Phenanthrene	7.50E-02	NC	1.58E+02	1.58E+02	1.58E+02
Phenol	4.57E+00	NC	2.56E+01	3.24E+01	3.55E+01
m-Phenylenediamine	9.37E-02	NC	1.39E-01	2.79E-01	3.41E-01
Polychlorinated biphenyls (PCBs)	3.76E-05	C	2.30E+01	2.30E+01	2.30E+01
n-Propylbenzene	1.15E-01	NC	1.30E+01	1.32E+01	1.32E+01
Pyrene	9.61E-02	NC	1.50E+03	1.50E+03	1.50E+03
RDX	6.07E-03	C	6.50E-02	7.41E-02	7.81E-02
Styrene	1.00E-01	M	1.17E+01	1.19E+01	1.19E+01
1,1,1,2-Tetrachloroethane	5.27E-03	C	7.15E-02	7.91E-02	8.23E-02
1,1,2,2-Tetrachloroethane	6.89E-04	C	1.05E-02	1.15E-02	1.20E-02
1,2,4,5-Tetrachlorobenzene	2.02E-03	NC	4.84E-01	4.87E-01	4.89E-01
Tetrachloroethylene	5.00E-03	M	1.41E-01	1.46E-01	1.47E-01
Tetrahydrofuran	2.03E-02	C	3.00E-02	6.02E-02	7.35E-02
Tertiary-amyl-methyl-ether (TAME)	8.28E-02	NC	6.77E-01	7.95E-01	8.43E-01
Tertiary-butyl-alcohol (TBA)	2.86E-01	NC	5.58E-01	9.83E-01	1.17E+00
Toluene	1.00E+00	M	2.98E+01	3.11E+01	3.16E+01
1,2,4-Trichlorobenzene	7.00E-02	M	1.87E+01	1.88E+01	1.88E+01
1,3,5-Trichlorobenzene	1.60E-02	NC	1.72E+00	1.74E+00	1.75E+00

Notes:

M: Maximum contaminant level (MCL)

C: Value was calculated based on carcinogenic effect.

NC: Value was calculated based on non-carcinogenic effect.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-11
Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway

Chemicals of Concern	Groudwater Target Concentrations at Point of Exposure (mg/L)		Soil Concentrations Protective of Domestic Use of Groundwater Pathway (mg/kg)		
			Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
1,1,1-Trichloroethane	2.00E-01	M	4.24E+00	4.47E+00	4.51E+00
1,1,2-Trichloroethane	5.00E-03	M	4.48E-02	5.22E-02	5.54E-02
Trichloroethylene	5.00E-03	M	1.41E-01	1.47E-01	1.49E-01
Trichlorofluoromethane	6.98E-01	NC	3.13E+01	3.10E+01	2.96E+01
2,4,5-Trichlorophenol	1.22E+00	NC	2.93E+02	2.95E+02	2.96E+02
2,4,6-Trichlorophenol	1.10E-03	NC	6.36E-02	6.52E-02	6.59E-02
1,2,3-Trichloropropane	6.93E-05	C	6.23E-04	7.25E-04	7.70E-04
1,1,2-Trichlorotrifluoroethane	3.30E+01	NC	5.40E+03	5.10E+03	4.65E+03
1,2,4-Trimethylbenzene	7.06E-03	NC	3.93E+00	3.94E+00	3.94E+00
1,3,5-Trimethylbenzene	7.05E-03	NC	8.82E-01	8.91E-01	8.94E-01
1,3,5-Trinitrobenzene	4.64E-01	NC	1.59E+00	2.28E+00	2.59E+00
2,4,6-Trinitrotoluene (TNT)	7.63E-03	NC	3.60E-01	3.71E-01	3.76E-01
Vinyl chloride (for residential scenario)	2.00E-03	M	1.92E-02	2.10E-02	2.09E-02
Vinyl chloride (for occupational scenatio)	NA		NA	NA	NA
Xylenes (total)	1.00E+01	M	6.34E+02	6.47E+02	6.52E+02
Pesticides					
Acetochlor	3.01E-01	NC	9.36E+00	9.81E+00	1.00E+01
Acifluorfen	2.03E-01	NC	3.69E+00	3.99E+00	4.12E+00
Acrolein	2.38E-05	NC	1.06E-04	1.42E-04	1.58E-04
Alachlor	2.00E-03	M	5.95E-02	6.25E-02	6.38E-02
Aldicarb	3.00E-03	M	1.11E-02	1.56E-02	1.76E-02
Aldicarb sulfone	3.00E-03	M	5.31E-03	9.77E-03	1.18E-02
Aldrin	3.74E-05	C	1.37E+01	1.37E+01	1.37E+01
Ametryn	1.28E-01	NC	7.60E+00	7.79E+00	7.88E+00
Atrazine	3.00E-03	M	2.22E-01	2.27E-01	2.29E-01
Baygon	6.26E-02	NC	1.57E+00	1.67E+00	1.71E+00
Butylate	5.38E-01	NC	1.08E+01	1.16E+01	1.20E+01
Captan	2.83E-01	C	8.73E+00	9.15E+00	9.33E+00
Carbaryl	1.49E+00	NC	2.50E+01	2.71E+01	2.81E+01
Carbofuran	4.00E-02	M	3.39E-01	3.98E-01	4.25E-01
Carboxin	1.41E+00	NC	2.59E+02	2.53E+02	2.43E+02
Chloramben	2.21E-01	NC	6.55E+00	6.88E+00	7.03E+00
Chlordane (technical)	3.02E-04	C	5.40E+00	5.40E+00	5.40E+00
Chlordane, gamma	2.00E-03	M	1.17E+02	1.17E+02	1.17E+02
Chlorothalonil	1.59E-01	C	1.37E+02	1.37E+02	1.37E+02
Chlorpyrifos	2.93E-02	NC	8.16E+00	8.20E+00	8.22E+00
Coumaphos	8.45E-02	NC	2.01E+02	2.01E+02	2.01E+02
Cyanazine	7.87E-04	C	6.56E-02	6.27E-02	5.77E-02
Dacthal	9.03E-02	NC	6.29E+02	6.29E+02	6.29E+02
Dalapon, sodium salt	2.00E-01	M	3.33E-01	6.31E-01	7.63E-01
DDD	5.24E-04	C	7.79E+01	7.79E+01	7.80E+01

Notes:

M: Maximum contaminant level (MCL)

C: Value was calculated based on carcinogenic effect.

NC: Value was calculated based on non-carcinogenic effect.

NA: Not available

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-11
Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway

Chemicals of Concern	Groudwater Target Concentrations at Point of Exposure (mg/L)		Soil Concentrations Protective of Domestic Use of Groundwater Pathway (mg/kg)		
			Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
DDE	4.11E-04	C	2.73E+02	2.73E+02	2.73E+02
DDT	2.42E-04	C	9.49E+01	9.49E+01	9.49E+01
DEF	1.05E-04	NC	4.92E+00	4.92E+00	4.92E+00
Demeton	5.74E-03	NC	2.38E-01	2.46E-01	2.50E-01
Diazinon	1.13E-02	NC	4.00E-01	4.17E-01	4.24E-01
Dicamba	4.54E-01	NC	8.38E+00	9.06E+00	9.36E+00
2,4-Dichlorophenoxy acetic acid (2,4-D)	7.00E-02	M	9.38E+00	9.48E+00	9.53E+00
4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	9.40E-02	NC	7.54E+00	7.68E+00	7.74E+00
Dichloroprop (2,4-DP)	1.34E-01	NC	1.78E-01	3.79E-01	4.68E-01
Dieldrin	2.94E-05	C	9.36E-02	9.37E-02	9.37E-02
Dimethoate	3.12E-03	NC	1.67E-02	2.13E-02	2.34E-02
2,4-Dinitro-6-sec-butylphenol (Dinoseb)	7.00E-03	M	1.38E-01	1.49E-01	1.54E-01
Diquat	2.00E-02	M	6.34E-01	6.64E-01	6.77E-01
Disulfoton	4.78E-04	NC	7.48E-04	1.46E-03	1.78E-03
Diuron	2.93E-02	NC	1.70E+00	1.74E+00	1.76E+00
Endosulfan	8.48E-02	NC	2.71E+01	2.72E+01	2.73E+01
Endothall	1.00E-01	M	1.96E+00	2.11E+00	2.18E+00
Endrin	2.00E-03	M	3.66E+00	3.67E+00	3.67E+00
Endrin aldehyde	7.13E-04	NC	2.27E+02	2.27E+02	2.27E+02
Endrin ketone	2.07E-03	NC	5.36E+01	5.36E+01	5.36E+01
Eptam	7.98E-02	NC	2.96E+00	3.08E+00	3.13E+00
Ethoprop	1.39E-03	NC	2.53E-01	2.55E-01	2.56E-01
Fenamiphos	3.91E-03	NC	1.98E-01	2.04E-01	2.06E-01
Fenthion	1.01E-03	NC	1.66E-01	1.68E-01	1.68E-01
Fluometuron	2.03E-01	NC	5.57E+00	5.87E+00	6.00E+00
Fonofos	2.13E-02	NC	1.14E+01	1.14E+01	1.14E+01
alpha-Hexachlorocyclohexane	6.88E-05	C	1.27E-02	1.28E-02	1.28E-02
beta-Hexachlorocyclohexane	2.38E-04	C	4.50E-02	4.53E-02	4.55E-02
delta-Hexachlorocyclohexane	2.70E-04	C	1.72E-01	1.72E-01	1.72E-01
gamma-Hexachlorocyclohexane	2.00E-04	M	3.21E-02	3.24E-02	3.26E-02
Glyphosate	7.00E-01	M	3.79E+02	3.80E+02	3.81E+02
Guthion	2.28E-02	NC	8.83E-01	9.17E-01	9.32E-01
Heptachlor	4.00E-04	M	8.41E+01	8.41E+01	8.40E+01
Heptachlor epoxide	2.00E-04	M	2.48E+00	2.48E+00	2.48E+00
Hexazinone	5.03E-01	NC	3.44E+00	4.19E+00	4.53E+00
Malathion	3.07E-01	NC	8.25E+01	8.30E+01	8.32E+01
Maleic hydrazide	7.82E+00	NC	5.86E+01	7.03E+01	7.54E+01
Maneb	7.82E-02	NC	6.51E+00	6.62E+00	6.68E+00
Methomyl	3.89E-01	NC	1.38E+00	1.96E+00	2.22E+00
Methoxychlor	4.00E-02	M	5.82E+02	5.82E+02	5.82E+02

Notes:

M: Maximum contaminant level (MCL)

C: Value was calculated based on carcinogenic effect.

NC: Value was calculated based on non-carcinogenic effect.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-11
Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway

Chemicals of Concern	Groudwater Target Concentrations at Point of Exposure (mg/L)		Soil Concentrations Protective of Domestic Use of Groundwater Pathway (mg/kg)		
			Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	6.26E-03	NC	9.12E-02	1.01E-01	1.05E-01
MCPP	1.36E-02	NC	1.80E-02	3.82E-02	4.72E-02
Metolachlor	2.20E+00	NC	2.33E+02	2.36E+02	2.38E+02
Metribuzin	3.90E-01	NC	6.03E+00	6.61E+00	6.87E+00
Mirex	3.74E-05	C	3.10E-02	3.11E-02	3.11E-02
Naled	3.11E-02	NC	6.58E-01	7.04E-01	7.25E-01
o,o,o-Triethylphosphorothioate	2.69E-05	NC	2.00E-03	2.04E-03	2.06E-03
Oxamyl	2.00E-01	M	5.03E-01	8.01E-01	9.33E-01
Paraquat	7.04E-02	NC	1.62E+02	1.62E+02	1.63E+02
ethyl-Parathion	7.44E-02	NC	6.21E+01	6.22E+01	6.22E+01
methyl-Parathion	3.69E-03	NC	2.80E+00	2.81E+00	2.81E+00
Pendimethalin	1.67E-01	NC	4.75E+03	4.75E+03	4.75E+03
Phenylmercuric acetate	1.25E-03	NC	1.41E-02	1.60E-02	1.68E-02
Phorate	2.69E-03	NC	2.69E-01	2.73E-01	2.74E-01
Picloram	9.99E-01	NC	4.15E+02	3.74E+02	3.20E+02
Prometon	2.14E-01	NC	1.70E+01	1.73E+01	1.75E+01
Pronamide	9.56E-01	NC	2.97E+01	3.12E+01	3.18E+01
Propachlor	2.03E-01	NC	8.23E+00	8.53E+00	8.67E+00
Propanil	7.00E-02	NC	9.50E+00	9.60E+00	9.65E+00
Propazine	1.26E-02	C	3.07E-01	3.26E-01	3.35E-01
Propham	2.86E-01	NC	4.16E+00	4.59E+00	4.77E+00
Silvex (2,4,5-TP)	5.00E-02	M	4.83E-01	5.57E-01	5.90E-01
Simazine	4.00E-03	M	8.75E-02	9.34E-02	9.61E-02
Strychnine	4.65E-03	NC	6.11E-02	6.80E-02	7.11E-02
Tebuthiuron	1.08E+00	NC	6.44E+00	8.04E+00	8.75E+00
Terbacil	2.03E-01	NC	1.51E+00	1.81E+00	1.95E+00
Terbufos	2.68E-04	NC	2.67E-02	2.71E-02	2.73E-02
Terbutryn	1.18E-02	NC	2.88E+00	2.90E+00	2.90E+00
Toxaphene	3.00E-03	M	1.15E+02	1.15E+02	1.15E+02
Triallate	1.18E-01	NC	3.95E+01	3.97E+01	3.98E+01
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	1.37E-01	NC	1.26E+00	1.46E+00	1.55E+00
Trifluralin	2.98E-02	C	6.12E+01	6.13E+01	6.13E+01
Warfarin	4.31E-03	NC	5.95E-01	6.01E-01	6.04E-01
Metals					
Aluminum	1.56E+01	NC	1.37E+05	1.37E+05	1.37E+05
Antimony	6.00E-03	M	6.66E+00	6.67E+00	6.67E+00
Arsenic	1.00E-02	M	7.21E+00	7.22E+00	7.23E+00
Barium	2.00E+00	M	2.04E+03	2.04E+03	2.04E+03
Beryllium	4.00E-03	M	7.84E+01	7.84E+01	7.84E+01
Cadmium	5.00E-03	M	9.31E+00	9.32E+00	9.32E+00
Chromium (III) total chromium	1.00E-01	M	4.47E+06	4.47E+06	4.47E+06

Notes:

M: Maximum contaminant level (MCL)

C: Value was calculated based on carcinogenic effect.

NC: Value was calculated based on non-carcinogenic effect.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-11
Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway

Chemicals of Concern	Groudwater Target Concentrations at Point of Exposure (mg/L)		Soil Concentrations Protective of Domestic Use of Groundwater Pathway (mg/kg)		
			Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
Chromium (VI)	3.37E-06	C	1.59E-03	1.60E-03	1.60E-03
Copper	6.24E-01	NC	6.17E+02	6.18E+02	6.19E+02
Lead	1.50E-02	M	3.74E+00	3.76E+00	3.77E+00
Manganese	2.19E+00	NC	2.72E+03	2.72E+03	2.72E+03
Mercury	NA	--	NA	NA	NA
Molybdenum	7.80E-02	NC	3.87E+01	3.88E+01	3.89E+01
Nickel	3.13E-01	NC	5.05E+02	5.05E+02	5.05E+02
Selenium	5.00E-02	M	6.27E+00	6.34E+00	6.38E+00
Silver	7.81E-02	NC	1.62E+01	1.63E+01	1.64E+01
Strontium	9.37E+00	NC	4.77E+02	4.91E+02	4.97E+02
Thallium chloride	1.25E-03	NC	2.20E+00	2.20E+00	2.20E+00
Vanadium	1.09E-01	NC	2.71E+03	2.71E+03	2.71E+03
Zinc	4.69E+00	NC	7.22E+03	7.22E+03	7.23E+03
Inorganics					
Ammonia	1.19E-01	NC	2.21E-01	3.98E-01	4.76E-01
Cyanide	3.12E-01	NC	7.71E+01	7.76E+01	7.78E+01
Cyanide (as Sodium Cyanide)	2.00E-01	M	2.65E-01	5.62E-01	6.95E-01
Cyanogen bromide	2.97E-01	NC	1.84E+00	2.25E+00	2.41E+00
Fluoride (as Sodium Fluoride)	4.00E+00	M	5.29E+00	1.12E+01	1.39E+01
Perchlorate	1.09E-02	NC	1.45E-02	3.07E-02	3.80E-02
White phosphorus	8.64E-05	NC	1.46E-02	1.47E-02	1.47E-02
Total Petroleum Hydrocarbons					
TPH-GRO	1.81E+01	NC	1.81E+04	1.76E+04	1.70E+04
Aliphatics - > C6-C8	1.73E+01	NC	1.45E+04	1.41E+04	1.36E+04
Aliphatics - > C8-C10	6.83E-01	NC	3.48E+03	3.46E+03	3.42E+03
Aromatics - >C8-C10	1.72E-01	NC	4.12E+01	4.14E+01	4.15E+01
TPH-DRO	3.43E+01	NC	2.94E+09	2.94E+09	2.94E+09
Aliphatics - >C10-C12	6.83E-01	NC	2.59E+04	2.59E+04	2.58E+04
Aliphatics - >C12-C16	1.56E+00	NC	1.17E+06	1.17E+06	1.17E+06
Aliphatics - >C16-C21	3.13E+01	NC	2.94E+09	2.94E+09	2.94E+09
Aromatics - >C10-C12	1.72E-01	NC	6.49E+01	6.51E+01	6.52E+01
Aromatics - >C12-C16	1.72E-01	NC	1.29E+02	1.29E+02	1.29E+02
Aromatics - >C16-C21	4.69E-01	NC	1.11E+03	1.11E+03	1.11E+03
TPH-ORO	3.18E+01	NC	2.94E+09	2.94E+09	2.94E+09
Aliphatics - >C21-C35	3.13E+01	NC	2.94E+09	2.94E+09	2.94E+09
Aromatics - >C21-C35	4.69E-01	NC	8.79E+03	8.79E+03	8.79E+03

Notes:

M: Maximum contaminant level (MCL)

C: Value was calculated based on carcinogenic effect.

NC: Value was calculated based on non-carcinogenic effect.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

APPENDIX B

Field Documentation

BORING/WELL CONSTRUCTION LOG

Project: PSC Metals - Shapiro Brothers		**Boring No.:** F-UG	**Page(s):** 1 of 1
Client: PSC Metals		**Project #:** 624-1104-0030	**Date:** 6/7/2011
Location: Festus, MO	**Coordinates:** N E		**Elevation:**
Drilling Company: Terra Drill	**Driller:** J. Dittmire	**Logger:** Aaron Smith	

WELL CONSTRUCTION SUMMARY

Depth (ft)	Casing	Depth (ft)	Annulus
0 to 7.5'	riser	to	
7.5' to 17.5'	screen	to	
to		to	

Start Time of Boring : 0813 **End Time of Boring: 0850**

Depth to Groundwater : 9.5 ft.

Surface Completion

DESCRIPTION: Modifier and Main Soil; color; impact; consistency/density/; moisture; odor; USCS soil classification

Depth (ft)	PERCENT RECOVERY	SAMPLE TIME	SAMPLE ID	PID (ppm)	USCS Classification	DESCRIPTION
1-2-3-4-	0	850	F-UG (1'-3') TPH	0	GM	Fill; rocks, scrap metal, light brown, slightly damp, no odor.
4-5-6-7-8-	90	820	F-UG 7'	0 0 0 0.1	CL	Silty CLAY, trace sand, light brown, greenish gray modeling, firm, slightly damp, no odor.
8-9-10-11-12-	100			0 0 0 0		Some sand, soft, moist.
12-13-14-15-16-	100	845	F-UG (13-14')	0 0 0 0		
16-17-18-19-				0 0 0		With fine sand to trace medium sand - course sub-angular gravel. Some sand, soft, moist. Very stiff.
19-20-21-22-23-24-						Refusal - Sand stone 19' bgs.

Notes: Airknived to 5' bgs.
Location: 185' south of lego concrete barriers located at edge of property. 28' from fence located to the east. 75' from drain colvert located to south of boring.
Piezometer set at 17.5'.

BORING/WELL CONSTRUCTION LOG

Project: PSC Metals - Shapiro Brothers		**Boring No.:** F-01A	**Page(s):** 1 of 1
Client: PSC Metals		**Project #:** 624-1104-0030	**Date:** 6/7/2011
Location: Festus, MO	**Coordinates:** N E		**Elevation:**
Drilling Company: Terra Drill	**Driller:** J. Dittmire	**Logger:** Aaron Smith	

WELL CONSTRUCTION SUMMARY

Depth (ft)	Casing	Depth (ft)	Annulus
0 to 2	riser	to	
2 to 12	screen	to	
to		to	

Start Time of Boring : 1000 **End Time of Boring: 1035**

Depth to Groundwater : 7.5 ft.

Surface Completion

DESCRIPTION: Modifier and Main Soil; color; impact; consistency/density/; moisture; odor; USCS soil classification

Depth (ft)	PERCENT RECOVERY	SAMPLE TIME	SAMPLE ID	PID (ppm)	USCS Classification	DESCRIPTION
1-4	0	1000	F-01A (1-3') TPH	0	GM	Fill; scrap metal, rock, fluff, light brown, slightly damp, no odor.
5-8	100	1020	F-01A (6-8')	0, 0, 0, 0	CL	Silty CLAY; trace fine sand, light brown, soft, slightly damp, no odor. Olive green. Damp.
9-12	100	1030	F-01A (9.5-10.5)	0.5, 1.6, 2.7, 1.9		Light brown, odor, firm. Staining with debris (glass, metal). Light brown with greenish gray ribbons, damp, soft.
13-16	80			1.7, 0.3, 0.3, 0, 0		With fine sand, light brown with light gray seams, very stiff.
17-24						Refusal - Sand stone at 16' bgs.

Notes: Airknifed to 5' bgs.
Location: South 13' from Colvert (see picture). Originally was to be set on top of hill near Vine Street gate, but encountered rip-rap. Moved location to bottom of hill in small metal shavings and scrap pile near 8' diameter colvert.

BORING/WELL CONSTRUCTION LOG

Project: PSC Metals - Shapiro Brothers		**Boring No.:** F-01B	**Page(s):** 1 of 1
Client: PSC Metals		**Project #:** 624-1104-0030	**Date:** 6/8/2011
Location: Festus, MO	**Coordinates:** N E		**Elevation:**
Drilling Company: Terra Drill	**Driller:** J. Dittmire	**Logger:** Aaron Smith	

WELL CONSTRUCTION SUMMARY

Depth (ft)	Casing	Depth (ft)	Annulus
0 to 2	riser	to	
2 to 12	screen	to	
to		to	

Start Time of Boring : 0745 **End Time of Boring: 0820**

Depth to Groundwater : 4.0 ft.

Surface Completion

DESCRIPTION: Modifier and Main Soil; color; impact; consistency/density/; moisture; odor; USCS soil classification

Depth (ft)	PERCENT RECOVERY	SAMPLE TIME	SAMPLE ID	PID (ppm)	USCS Classification	DESCRIPTION
1-2-3-4-	0	750	F-01B (1-2')	0	GM	Fill; rock, scrap metal, fluff, light green, slightly damp, no odor.
4-5-6-7-8-	100	825	F-01B (4-6')	0 0 0 0	CL	Silty CLAY, trace fine sand, light brown, soft, moist, no odor.
8-9-10-11-12-	80			0 0 0 0 0	CL	Firm, damp. Some fine to coarse sand, stiff. Coarse sand, fine to coarse gravel.
12-13-14-15-16-17-18-19-20-21-22-23-24-						Refusal - Sand stone at 12' bgs.

Notes: Airknifed to 5' bgs.
Had to off-set for 4-8' sample.
Location: In NW corner of Fluff Pile location near retaining wall that separates Fluff Pile area and smaller scrap metal shavings.

TEST PIT LOG	Project: PSC Metals - Shapiro Brothers	Boring No.: F-02-TP	Page(s): 1 of 1
	Client: PSC Metals	Project #: 624-1104-0030	Date: 6/10/2011
	Location: Festus, MO	Coordinates: N E	Elevation:
Drilling Company: PSC	Operator: P. Fahey	Logger: John Carrow	

Test Pit

Start Time of Test Pit : 0800 **End Time of Test Pit: 0830**

Depth to Groundwater : No groundwater.

DESCRIPTION: Modifier and Main Soil; color; impact; consistency/density/; moisture; odor; USCS soil classification

Depth (ft)	RECOVERY (Feet)	SAMPLE TIME	SAMPLE ID	PID (ppm)	USCS Classification	DESCRIPTION
1-3		815	F-02 (2-3)		GM	FILL; cobbles, scrap, fluff, wood, wet, loose, heavy staining, Petroleum odor, wet. Water seeping at 2'.
4-5		800	F-02 (5-6)		CL	Silty Clay; some sand, medium brown, firm, moist to wet, slight odor, stains on seams.
6-10	4/4					End of test pit at 6' bgs.
11-14	4/4					
15-24						

Notes:

TEST PIT LOG

Project: PSC Metals - Shapiro Brothers		**Boring No.:** F-03A-TP	**Page(s):** 1 of 1
Client: PSC Metals		**Project #:** 624-1104-0030	**Date:** 6/8/2011
Location: Festus, MO	**Coordinates:** N E		**Elevation:**
Drilling Company: PSC	**Operator:** P. Fahey	**Logger:** Aaron Smith	

Test Pit

Start Time of Test Pit : 1240 **End Time of Test Pit: 1325**

Depth to Groundwater : No groundwater.

Depth (ft)	RECOVERY (Feet)	SAMPLE TIME	SAMPLE ID	PID (ppm)	USCS Classification	DESCRIPTION: Modifier and Main Soil; color; impact; consistency/density/; moisture; odor; USCS soil classification
1-2-3-	4/4	1340	F-03A (1-3')	20.7	GM	FILL; scrap metal, fluff, wood chips, light brown, slightly damp, soft, loose, odor. Dark brown to black, damp, staining, odor.
4-5-		1335	F-03 (4-5')	2	CL	Silty CLAYs, trace fine sand, light bown, stiff, slightly damp, no odor.
6-				0		End of test pit at 5' bgs.
7-				0		
8-				0		
9-				0		
10-				0		
11-				0		
12-				0		
13-				0		
14-				0		
15-				0		
16-				0		
17-						
18-						
19-						
20-						
21-						
22-						
23-						
24-						

Notes: Used mini excavator to dig Test Pit.

TEST PIT LOG

Project: PSC Metals - Shapiro Brothers		**Boring No.:** F-03B-TP	**Page(s):** 1 of 1
Client: PSC Metals		**Project #:** 624-1104-0030	**Date:** 6/10/2011
Location: Festus, MO	**Coordinates:** N E		**Elevation:**
Drilling Company: PSC	**Operator:** P. Fahey	**Logger:** John Carrow	

Test Pit

Start Time of Test Pit : 1015 | **End Time of Test Pit: 1040**

Depth to Groundwater : No groundwater.

DESCRIPTION: Modifier and Main Soil; color; impact; consistency/density/; moisture; odor; USCS soil classification

Depth (ft)	RECOVERY (Feet)	SAMPLE TIME	SAMPLE ID	PID (ppm)	USCS Classification	DESCRIPTION
		1035	F-03B (0-1)		GM	FILL; charred lumber, cinders, scrap, dark brown to black, damp, organic, odor.
1						Refusal of test pit at 1' bgs due to concrete slab.
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

Notes: Scratched around ground with hoe to see how large concrete slab is. Slab is probably 50' by 30'.

TEST PIT LOG

Project: PSC Metals - Shapiro Brothers		**Boring No.:** F-03C	**Page(s):** 1 of 1
Client: PSC Metals		**Project #:** 624-1104-0030	**Date:** 6/10/2011
Location: Festus, MO	**Coordinates:** N E		**Elevation:**
Drilling Company: PSC	**Operator:** P. Fahey	**Logger:** John Carrow	

Test Pit

Start Time of Test Pit : 1050 | **End Time of Test Pit: 1115**

Depth to Groundwater : No groundwater.

Depth (ft)	RECOVERY (Feet)	SAMPLE TIME	SAMPLE ID	PID (ppm)	USCS Classification	DESCRIPTION: Modifier and Main Soil; color; impact; consistency/density/; moisture; odor; USCS soil classification
1-4				GM		FILL; cinders, burned lumber, scrap, rail car parts, axels, breaks, rail ties, springs.
5		1105	F-03C (5-6)		CL	Silty CLAY; medium brown to olive gray, mottled, firm, moist, no odor.
6						End of test pit at 6' bgs.
7-24						

Notes:

TEST PIT LOG

Project: PSC Metals - Shapiro Brothers		**Boring No.:** F-04A-TP	**Page(s):** 1 of 1
Client: PSC Metals		**Project #:** 624-1104-0030	**Date:** 6/8/2011
Location: Festus, MO	**Coordinates:** N E		**Elevation:**
Drilling Company: PSC	**Operator:** P. Fahey	**Logger:** Aaron Smith	

Test Pit

Start Time of Test Pit : 1015 **End Time of Test Pit: 1030**

Depth to Groundwater : No groundwater.

DESCRIPTION: Modifier and Main Soil; color; impact; consistency/density/; moisture; odor; USCS soil classification

Depth (ft)	RECOVERY (Feet)	SAMPLE TIME	SAMPLE ID	PID (ppm)	USCS Classification	Description
1					GM	FILL, reworked silty clay with brick, scrap, dark gray, damp to moist, medium dense, minor staining.
2		1025	F-04A (2-3)	0	CL	Silty CLAY: trace fine sand, light brown, firm, slightly damp.
3						
4						Olive green, soft, damp.
5						Old cable, pipe.
6		1045	F-04A (5'-7')	0		
7						End of test pit at 7' 3" bgs.
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

Notes: Used mini excavator to dig test pit to 7' 3"

TEST PIT LOG	Project: PSC Metals - Shapiro Brothers	Boring No.: F-04B-TP	Page(s): 1 of 1
	Client: PSC Metals	Project #: 624-1104-0030	Date: 6/8/2011
	Location: Festus, MO	Coordinates: N E	Elevation:
Drilling Company: PSC	Driller: P. Fahey	Logger: John Carrow	

Test Pit

Start Time of Test Pit : 1015 | **End Time of Test Pit: 1045**

Depth to Groundwater : No groundwater.

DESCRIPTION: Modifier and Main Soil; color; impact; consistency/density/; moisture; odor; USCS soil classification

Depth (ft)	RECOVERY (Feet)	SAMPLE TIME	SAMPLE ID	PID (ppm)	USCS Classification	Description
1					GM	FILL; reworked silty clay with bricks, scrap, dark gray, damp to moist, medium dense, minor staining.
2		955	F-04B (2-3)			Not much debris after bed of pea gravel.
3						
4						
5						Old cable and pipe.
6						
7						
8		1000	F-04B (8-9)			
9						End of test pit at 9' bgs.
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

Notes: Used mini excavator to dig test pit.

TEST PIT LOG

Project: PSC Metals - Shapiro Brothers		**Boring No.:** F-04C-TP	**Page(s):** 1 of 1
Client: PSC Metals		**Project #:** 624-1104-0030	**Date:** 6/10/2011
Location: Festus, MO	**Coordinates:** N E		**Elevation:**
Drilling Company: PSC	**Operator:** P. Fahey	**Logger:** John Carrow	

Test Pit

Start Time of Test Pit : 1015 | **End Time of Test Pit: 1045**

Depth to Groundwater : No groundwater.

DESCRIPTION: Modifier and Main Soil; color; impact; consistency/density/; moisture; odor; USCS soil classification

Depth (ft)	RECOVERY (Feet)	SAMPLE TIME	SAMPLE ID	PID (ppm)	USCS Classification	Description
1-12		1000	F-04C (5-6)		GM	FILL; lumber, rags, rail ties, scrap, pipe, rock (gravel & cobbles), dark gray to black, stained, no odor (petroleum or solvent).
12-14		1015	F-04C (12-13)			Silty CLAY; medium brown, firm, moist, no petroleum or solvent odors, no staining.
14-24						End of test pit at 14' bgs.

Notes: Used mini excavator to dig test pit.

BORING/WELL CONSTRUCTION LOG

Project: PSC Metals - Shapiro Brothers		**Boring No.:** F-06	**Page(s):** 1 of 1
Client: PSC Metals		**Project #:** 624-1104-0030	**Date:** 6/7/2011
Location: Festus, MO	**Coordinates:** N E		**Elevation:**
Drilling Company: Terra Drill	**Driller:** J. Dittmire	**Logger:** Aaron Smith	

WELL CONSTRUCTION SUMMARY

Depth (ft)		Casing	Depth (ft)		Annulus
0	to 3	riser		to	
3	to 13	screen		to	
	to			to	

Start Time of Boring : 1430 **End Time of Boring: 1500**

Depth to Groundwater : 12.5 ft.

Surface Completion

DESCRIPTION: Modifier and Main Soil; color; impact; consistency/density/; moisture; odor; USCS soil classification

Depth (ft)	PERCENT RECOVERY	SAMPLE TIME	SAMPLE ID	PID (ppm)	USCS Classification	DESCRIPTION
1-2	0	1430	F-06 (1-2')	0	GM	FILL; rock, scrap metal, light brown, damp, slight odor, staining.
4-7	100	1435	F-06 (4-6')	1.7 0.7 0.6	CL	Silty CLAY, trace fine sand, light brown, firm, slightly damp, no odor.
8-12	80	1450	F-06 (8-9')	10.7 1.7 1.1 0.8 0		Stiff, slight petroleum odor. Some fine to coarse sand Weathered sand stone. Soft, moist Wet.
13						Refusal at 13' bgs.

Notes: Airknifed to 5' bgs.
Location: Next to AST, secondary containment for AST open allowed to drain. Secondary containment has fuel of water up to drain plug.
Well set at 13' as a piezometer.

BORING/WELL CONSTRUCTION LOG

Project: PSC Metals - Shapiro Brothers		**Boring No.:** F-07	**Page(s):** 1 of 1
Client: PSC Metals		**Project #:** 624-1104-0030	**Date:** 6/7/2011
Location: Festus, MO	**Coordinates:** N E		**Elevation:**
Drilling Company: Terra Drill	**Driller:** J. Dittmire	**Logger:** Aaron Smith	

WELL CONSTRUCTION SUMMARY

Depth (ft)	Casing	Depth (ft)	Annulus
0 to 4	riser	to	
4 to 14	screen	to	
to		to	

Start Time of Boring : 1145 **End Time of Boring: 1215**

Depth to Groundwater : 12.5 ft.

Surface Completion

DESCRIPTION: Modifier and Main Soil; color; impact; consistency/density/; moisture; odor; USCS soil classification

Depth (ft)	PERCENT RECOVERY	SAMPLE TIME	SAMPLE ID	PID (ppm)	USCS Classification	DESCRIPTION
1-2-3-4-	0	1145	F-07 (1-3')	0	GM	FILL; rock, scrap metal, light brown, soft, slightly damp, no odor.
5-6-7-8-	100	1155	F-07 (5-7')	0 0 0 0	CL	Silty CLAY; trace fine sand, light brown, soft, slightly damp, no odor.
9-10-11-12-	70	1215	F-07 (9-10')	0 0 0 0		Damp. Fine sand, some coarse sand Coarse gravel (weathered sandstone) Fine sand, some coarse sand, stiff, light brown with greenish gray modeling.
13-14-15-				0 0 0 0		Very wet. Coarse sand, brown modeling, subangular gravel. Very stiff.
16-17-18-19-20-21-22-23-24-						Refusal at 15' bgs.

Notes: Airknifed to 5' bgs.
Location: 36' from stain on retaining wall. 28" from corner of retaining wall.
Piezometer set at 14' bgs.

TEST PIT LOG	Project: PSC Metals - Shapiro Brothers	Boring No.: F-08	Page(s): 1 of 1
	Client: PSC Metals	Project #: 624-1104-0030	Date: 6/7/2011
	Location: Festus, MO	Coordinates: N E	Elevation:
Drilling Company: Used SBI Shear	Operator: SBI Operator	Logger: John Carrow	

Test Pit

Start Time of Test Pit : 0945 | **End Time of Test Pit: 1015**

Depth to Groundwater : No groundwater.

DESCRIPTION: Modifier and Main Soil; color; impact; consistency/density/; moisture; odor; USCS soil classification

Depth (ft)	RECOVERY (Feet)	SAMPLE TIME	SAMPLE ID	PID (ppm)	USCS Classification	Description
1-2		1000	F-08 (2-3)		GM	FILL; scrap metal, springs, steel plate, axels, breaks (rail cars), lumber, dark gray to black, stained, foul odor (like a landfill).
3-4		945	F-08 (3-4)		CL	Silty CLAY; medium brown to gray mottled, firm, moist, stained, same foul odor.
5-24						End of test pit at 4' bgs.

Notes: SBI operator indicated that the odor was from wrotten grain left in some of the rail cars.

BORING/WELL CONSTRUCTION LOG

Project: PSC Metals - Shapiro Brothers		**Boring No.:** F-09	**Page(s):** 1 of 1
Client: PSC Metals		**Project #:** 624-1104-0030	**Date:** 6/7/2011
Location: Festus, MO	**Coordinates:** N E		**Elevation:**
Drilling Company: Terra Drill	**Driller:** J. Dittmire	**Logger:** Aaron Smith	

WELL CONSTRUCTION SUMMARY

Depth (ft)	Casing	Depth (ft)	Annulus
0 to 2	riser	to	
2 to 12	screen	to	
to		to	

Start Time of Boring : 1300 **End Time of Boring: 1345**

Depth to Groundwater : 9.5 ft.

DESCRIPTION: Modifier and Main Soil; color; impact; consistency/density/; moisture; odor; USCS soil classification

Surface Completion

Depth (ft)	PERCENT RECOVERY	SAMPLE TIME	SAMPLE ID	PID (ppm)	USCS Classification	DESCRIPTION
1-4		1025	F-09/F-SB/PZ (2-3')	0	GM	FILL; rock, scrap metal, tree root, light brown, no odor.
5-8	80	1315	F-09/F-SB/PZ (7-9')	0 0 0 0	CL	Silty CLAY; trace fine sand, light brown orange modeling, firm, slightly damp, no odor.
9	70	1330	F-09/F-SB/PZ (9.5-11')	0 0	SP	SAND, fine to coarse sand, fine gravel, brown, dense, no odor.
10-12				0 0	CL	Silty CLAY; fine sand, dark gray, soft, moist, no odor. Firm, orange modeling.
13-16				0 0 0 0	CL	Greenish gray, stiff, slightly damp. Light brown greenish gray modeling.
17-20				0 0 0 0 0	CL	Moist, firm.
21-24						Refusal at 20' bgs.

Notes: Airknifed to 5' bgs.
F-09 John Carrow located additional boring F-09. Refusal at 20'. Set piezometer well at 12'.
Location: East of F-07 on next Access Road heading toward shear.

PSC Industrial Outsourcing, LP
210 West Sand Band Road
Columbia, Illinois 62236-0230
618) 281-7173 Fax (618) 281-7020

Project Name: Shapiro Brothers, Inc.

Project No: 624-1104-0030

Location: Festus, Missouri

PHOTOGRAPHS

Photographer: J. Carrow

Description:
Stairs leading to the decommissioned baler sump. Liquid is 11 feet deep near the bottom of the stairs.

Date: June 8, 2011
Photo No: 1

Photographer: J. Carrow

Description:
Access tunnel to baler sump

Date: June 8, 2011
Photo No: 2

PSC Industrial Outsourcing, LP
210 West Sand Band Road
Columbia, Illinois 62236-0230
618) 281-7173 Fax (618) 281-7020

Project Name: Shapiro Brothers, Inc.

Project No: 624-1104-0030

Location: Festus, Missouri

PHOTOGRAPHS

Photographer: J. Carrow

Description:
Clearing utilities for drilling F-01A near the tunnel exit.

Date: June 8, 2011
Photo No: 3

Photographer: J. Carrow

Description:
Test pit F-03A-TP in the rail car processing area

Date: June 8, 2011
Photo No: 4

PSC Industrial Outsourcing, LP
210 West Sand Band Road
Columbia, Illinois 62236-0230
618) 281-7173 Fax (618) 281-7020

Project Name: Shapiro Brothers, Inc.

Project No: 624-1104-0030

Location: Festus, Missouri

PHOTOGRAPHS

Photographer: J. Carrow

Description:
Fill material encountered in F-03A-TP.

Date: June 8, 2011
Photo No: 5

Photographer: J. Carrow

Description:
Rail car processing area, note the tank car being dismantled in the background.

Date: June 8, 2011
Photo No: 6

APPENDIX C

Analytical Data Provided on CD

PSC INDUSTRIAL OUTSOURCING, LP
210 West Sand Bank Road
Columbia, Illinois 62236

Phone: 618-281-7173 FAX: 618-281-7020

– MEMORANDUM –

TO: Al Becker

FROM: Paul Anderson

DATE: July 11, 2011

PROJECT NUMBER: 624-1104-0030

SUBJECT: Analytical Data QA Review /Shapiro Brothers (Phase II) Festus, MO

SUMMARY AND DATA USABILITY

Data Quality Review Project Summary

This report addresses the quality of the analytical data for the samples collected at the Shapiro Brothers, Inc. facility located in Festus, Missouri. The samples were collected during the Phase II investigation activities. The sample collection activities were performed on June 7, 8, 10, 2011 by PSC Industrial Outsourcing, LP (PSC) personnel for PSC-Metals.

The samples were analyzed for the project-selected list of analytical parameters, which included: Volatile Organic Compounds (VOCs); Semi-Volatile Organic Compounds (SVOCs); Total Petroleum Hydrocarbons (TPH) as gasoline (TPH-G); TPH as Diesel (TPH-D); TPH as Oil (TPH-O); Polychlorinated Biphenyls (PCBs); and RCRA/TCLP Metals. The analyses were performed and reported by TestAmerica, Inc. located in Nashville, Tennessee for the samples received by the laboratory on June 9-11, 2011. Table 1 presents a summary of the validated samples, including their identification information, matrix, collection dates, methods of analysis performed, and deviated quality control criteria noted for each sample.

The analytical data resulting from the analysis of the samples listed on Table 1 underwent a limited data quality review, based on the information provided by the laboratory. The review focused on those aspects of the data generating process that were provided in the data packages and involved an examination of the available data only. The data package included a summary of sample results with Quality Control (QC) batch summary data. Overall, the data package was sufficiently complete to properly assess the quality of the analytical results with a level that was consistent with the intent of this project.

The purpose of the data quality review was to provide an independent opinion of the quality of data generated from the measurement process. The intention of the review was to determine the usability of the analytical results and to determine compliance with the requirements of the analytical methods. Data may be in full compliance with the method requirement, but may not be usable for all purposes, such as risk assessment. Accordingly, this report outlines excursions from the applicable quality control criteria outlined in the analytical methods referenced in Table 1.

Data Usability

The analytical data were reviewed and qualified in accordance with U.S. Environmental Protection Agency (USEPA) data validation *Functional Guidelines* (USEPA- Organic 1999, Inorganic 2002) and the method specific criteria.

Rejected data, which are considered unusable for either qualitative or quantitative purposes, are a result of a major deficiency noted in the data generation process. Minor deficiencies in the data generation process result in approximation of sample data. Approximation of a data point indicates uncertainty in the reported concentration of the chemical, but not its assigned identity. Conservative assumptions made when basing conclusions on analytical data allow the use of approximated analytical data. This approach to the use of analytical data is consistent with USEPA *Risk Assessment and Data Usability Guidance (1992).* A summary of specific quality assurance/quality control (QA/QC) excursions that resulted in qualification of sample data is presented in the following sections.

This section summarizes the analytical data in terms of its completeness and usability for characterization of the current data quality for engineering decisions and risk management. Data completeness is defined as the percentage of sample results that have been determined to meet quality control criteria during the data review process. The completeness of the total data set was determined to be 100%. Although, several of the sample results required approximation, as described in the following sections.

Data usability is a qualitative evaluation that utilizes the findings of the data validation, historical information, regulatory guidance, and other applicable information to provide an assessment of how the data set may be used. The assessment is made with reference to the specific data uses specified in the previous paragraph. Data, which do not meet completeness requirements, are not considered usable. However, data, which are complete, are not necessarily usable.

The data usability was evaluated on the level of documentation provided for review. This level of documentation was sufficient for the intended purposes of the data set. The review noted that there were no issues regarding data usability.

DATA VALIDATION METHODS AND RESULTS

Data Validation Protocols

The criteria employed for data validation review (Functional Guidelines) provide differing quality control criteria from those specified in the methods. In cases where method requirements and validation requirements overlap, method quality control criteria are used and the validation guidelines are followed for applying data qualifiers, if required. The data Validation Guidelines quality control criteria are used when the method does not provide criteria. Data may be in full compliance with the method requirements, but may not meet data validation guidance.

Quality Control Parameters
The following QA/QC parameters were to be evaluated for **organic** analyses:

1. Holding Times and Preservation
2. Blank Analyses (method blanks, trip blank)
3. Instrument Performance Check (*when applicable*)
4. Surrogate Recoveries
5. Laboratory Control Sample (LCS) and Blank Spike (BS) Analysis
6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis (*when applicable*)
7. Field Duplicate Analysis (*when applicable*)
8. Document Completeness

The following QA/QC parameters were to be evaluated for **inorganic** analyses:

1. Holding Times and Preservation
2. Blank Analyses (method blanks)
3. LCS and BS Analysis
4. Matrix Spike (MS) sample Analysis (*when applicable*)
5. Laboratory Replicate Analysis (*when applicable*)
6. Serial Dilutions (*when applicable*)
7. Field Duplicate Analysis (*when applicable*)
8. Document Completeness

Data Qualifiers Used in Validation

The following data qualifiers are defined by USEPA in the data validation Functional Guidelines for use in validating analytical data. The appropriate data qualifiers were added to the data packages on the Certificates of Analysis (COA)s in red ink during the validation process. Any necessary corrections to the data, due to transcription errors or calculation errors were also added with red ink. Each page with changes was also initialed and dated by the validator.

The following data validation qualifiers may be used during the validation of data:

R	Indicates that the reporting limit or sample result has been determined to be unusable, due to a major deficiency in the data generation process. The data should not be used for any qualitative or quantitative purposes.
U	Indicates that the analyte was analyzed for, but was not detected. The sample-specific reporting limit is presented and adjusted for dilution and percent solids, as appropriate. The qualifier is also used to signify that the reporting limit of an analyte was raised due to blank contamination.
J	The analyte was positively identified, but the concentration should be considered approximate. This qualifier indicates that the data validation process identified a deficiency in the data generation process.
UJ	Indicates that the sample-specific reporting limit for the analyte in this sample should be considered approximate. This qualifier is used when the data validation process identified a deficiency in the data generation process.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a “tentative identification”.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Data Evaluation Results

This section describes the qualifiers that may have been added to sample data where quality control criteria were not met. Samples that required qualification are identified in the following sections by the sample identifier documented on the field chain-of-custody (COC). Quality control evaluation parameters that were met are not necessarily discussed below.

General Comments

Sample cooler temperatures should meet the recommended range of 2-6°C upon arrival at the laboratory. Cooler temperatures of 6°C or less do not affect the quality of the data. Cooler temperatures of 7°C or greater may have biased the data and would be qualified. Cooler temperature qualification affects the data analyzed for Volatiles, Semi-volatiles, TPH, PCBs, Herbicides, Pesticides, Nitrate, and Mercury. The laboratory indicated on the Sample Receipt Logs that not all of the sample coolers met the 6°C-temperature compliance. See the itemized list below.

Several discrepancies and/or deficiencies were noted while the laboratory was logging in the received samples as follows:

1. The laboratory noted that several of the sample containers arrived with cooler temperatures that exceeded the recommended temperature compliance. The samples with deviated temperature compliance included the samples reported in SDGs NUF-1519, NUF-1681, NUF-1717, NUF-1697, and NUF-1686. None of the samples were received at the laboratory on the same day as being collected. Therefore, qualification was required for the listed sample sets. All results for all samples have been "J" qualified as having estimated concentrations or "UJ" qualified as having estimated reporting limits.
2. The field sampler noted that samples NUF-1519-08 and -09 were incorrectly labeled on the COC. The laboratory was not requested to correct the report, but the sample IDs were corrected on the original hard copies during the validation process.
3. The laboratory noted that there was insufficient sample volume to perform the analyses of TPH-D and TPH-O for sample F-UG (NUF-1681-02).
4. The laboratory noted that samples D Baler (NUF-1697-01) and Tunnel (NUF-1697-02) had two separate matrix phases within the sample containers. Upon communication with the PSC Project Manager and a limited list of analytical parameters were performed for each phase.

Volatile Organic Compounds

Holding Period/Preservation

The sample-holding period requirements vary depending upon the sample matrix and the preservation method used. However, all samples should maintain a 2-6°C cooler temperature until arrival at the laboratory. Cooler temperature qualification affects the data analyzed for all volatiles. In addition, water volatiles have 14-days from time-of-collection to time-of-analysis. The soil volatiles by method 5030 have 14-days from time-of-collection to time-of-analysis. The soil volatiles by method 5035 have 14–days (if field preserved with methanol, deionized water or sodium bisulfate, or an initial 48-hours if laboratory preserved) from time-of-collection to time-of-analysis. The wipe samples have 14-days from time-of-collection to time-of-analysis.

The soil samples were not preserved or prepared by method 5035, but were still acceptable according to method 5030. There was an issue with regard to non-compliant cooler temperatures and this resulted in qualification of the data as noted in the previous General Comments section. All samples were prepared and analyzed within the appropriate holding periods.

Blank Analysis

There were no issues or excursions associated with the method blanks performed. When laboratory artifacts are reported for method blanks or trip blanks, the sample results would be qualified based on the observed contamination. All method blank values, which have results greater than the method detection limit (MDL) value, would be evaluated among the samples within the analytical batch. Sample results reported at concentrations less than 5x (10x for common artifacts) the blank contamination would be 'U' qualified as not detected and the reporting limit (RL) would be raised to the reported value for the analyte. No qualification is required for contaminants, when there were no positive results reported for the specific contaminants or when the positive results reported were greater than the action limit.

Surrogate Recoveries

There were several issues and excursions associated with the surrogate recoveries. The data was evaluated against the laboratory's reported control limits. Samples may be qualified when any of the four surrogates has a deviated recovery. Qualification is not required for high biased deviations, which only affect positive results when the associated results are non-detect. In addition, qualification is not required when there are unacceptable recoveries due to dilutions (greater than 5x) or when results are incorporated from other analytical batches.

The percent recoveries for one of the four surrogates exceeded the laboratory control limits in the undiluted analysis of sample F-01A (1-3') (NUF-1504-03). The high-biased deviation required that all undiluted positive results for the sample be 'J' qualified as estimated values.

The percent recoveries for two of the four surrogates exceeded the laboratory control limits in the undiluted analysis of sample F-01A (6-8') (NUF-1504-04). The high-biased deviation required that all undiluted positive results for the sample be 'J' qualified as estimated values.

The percent recoveries for one of the four surrogates exceeded the laboratory control limits in the undiluted analysis of sample F-06 (1-2') (NUF-1504-06). The high-biased deviation required that all undiluted positive results for the sample be 'J' qualified as estimated values.

The percent recoveries for one of the four surrogates exceeded the laboratory control limits in the undiluted analysis of sample F-07A (0-1') (NUF-1504-09). The high-biased deviation required that all undiluted positive results for the sample be 'J' qualified as estimated values.

The percent recoveries for one of the four surrogates exceeded the laboratory control limits in the undiluted analysis of sample D Baler (NUF-1697-01). The high-biased deviation required that all undiluted positive results for the sample be 'J' qualified as estimated values.

The percent recoveries for one of the four surrogates exceeded the laboratory control limits in the undiluted analysis of sample F-05A (0-1') (NUF-1686-03). The high-biased deviation required that all undiluted positive results for the sample be 'J' qualified as estimated values.

The percent recoveries for one of the four surrogates exceeded the laboratory control limits in the undiluted analysis of sample F-05B (0-1') (NUF-1686-04). The high-biased deviation required that all undiluted positive results for the sample be 'J' qualified as estimated values.

The percent recoveries for one of the four surrogates exceeded the laboratory control limits in the undiluted analysis of sample F-03B (0-1') (NUF-1960-05). The high-biased deviation required that all undiluted positive results for the sample be 'J' qualified as estimated values.

The following table presents the surrogate excursions that required qualification. Excursions that do not affect the data results would not be listed in the table.

Sample I.D.	Surrogate Compound	Matrix	Percent Recovery	Control Limits (%)	Action
F-01A (1-3') (NUF-1504-03)	4-Bromofluorobenzene	Soil	175%	67-147%	1
F-01A (6-8') (NUF-1504-04)	Toluene-d8 4-Bromofluorobenzene	Soil	133% 160%	76-129% 67-147%	1
F-06 (1-2') (NUF-1504-06)	4-Bromofluorobenzene	Soil	177%	67-147%	1
F-07A (0-1') (NUF-1504-09)	4-Bromofluorobenzene	Soil	171%	67-147%	1
D Baler (NUF-1697-01)	4-Bromofluorobenzene	Water	169%	79-125%	1
F-05A (0-1') (NUF-1686-03)	4-Bromofluorobenzene	Soil	163%	67-147%	1
F-05B (0-1') (NUF-1686-04)	4-Bromofluorobenzene	Soil	193%	67-147%	1

Sample I.D.	Surrogate Compound	Matrix	Percent Recovery	Control Limits (%)	Action
F-03B (0-1') (NUF-1960-05)	4-Bromofluorobenzene	Soil	170%	67-147%	1

Action References: 1 - The detected results for this sample have been 'J' qualified as estimated.
2 - The non-detected results for this sample have been 'UJ' qualified as estimated reporting limits.

Laboratory Control Sample Recoveries

There were several issues and excursions associated with the LCS recoveries. The data was evaluated against the laboratory's reported control limits. Qualification is not required for high biased deviations when the associated results are non-detect, since they only affect positive results.

The blank spike percent recovery for 1,2,3-trichloropropane exceeded the laboratory control limits for QC sample 11F2699-BS1 in QC analytical batch U010244 analyzed on June 10, 2011 for SDG NUF-1519. No qualification was necessary, since the deviation only affects positive results and the associated primary sample results were non-detect for the deviated analytes.

The blank spike percent recovery for isopropylbenzene exceeded the laboratory control limits for QC sample 11F2576-BS1 in QC analytical batch U010399 analyzed on June 10, 2011 for SDG NUF-1504. No qualification was necessary, since the deviation only affects positive results and the associated primary sample results were non-detect for the deviated analytes.

The blank spike percent recovery for isopropylbenzene exceeded the laboratory control limits for QC sample 11F4149-BSD1 in QC analytical batch U010630 analyzed on June 16, 2011 for SDG NUF-1504. The positive results for the associated deviation required qualification as noted.

The blank spike percent recoveries for isopropylbenzene exceeded the laboratory control limits for QC sample 11F3496-BS1 and -BSD in QC analytical batch U010431 analyzed on June 13, 2011 for SDG NUF-1681. No qualification was necessary, since the deviation only affects positive results and the associated primary sample results were non-detect for the deviated analytes.

The blank spike percent recoveries for isopropylbenzene exceeded the laboratory control limits for QC sample 11F4109-BS1 and -BSD in QC analytical batch U010602 analyzed on June 15, 2011 for SDG NUF-1681. No qualification was necessary, since the deviation only affects positive results and the associated primary sample results were non-detect for the deviated analytes.

The blank spike percent recoveries for isopropylbenzene exceeded the laboratory control limits for QC sample 11F2889-BS1 and -BSD in QC analytical batch U010563 analyzed on June 15,

2011 for SDG NUF-1697. No qualification was necessary, since the deviation only affects positive results and the associated primary sample results were non-detect for the deviated analytes.

The blank spike percent recoveries for isopropylbenzene exceeded the laboratory control limits for QC sample 11F3984-BS1 and -BSD in QC analytical batch U010570 analyzed on June 15, 2011 for SDG NUF-1697. No qualification was necessary, since the deviation only affects positive results and the associated primary sample results were non-detect for the deviated analytes.

The blank spike percent recoveries for isopropylbenzene exceeded the laboratory control limits for QC sample 11F4282-BS1 and -BSD in QC analytical batch U010652 analyzed on June 15, 2011 for SDG NUF-1697. No qualification was necessary, since the deviation only affects positive results and the associated primary sample results were non-detect for the deviated analytes.

The blank spike percent recovery for isopropylbenzene exceeded the laboratory control limits for QC sample 11F4149-BSD in QC analytical batch U010630 analyzed on June 16, 2011 for SDG NUF-1686. The positive results for the associated deviation required qualification as noted.

The blank spike percent recoveries for isopropylbenzene; 1,4-dichlorobenzene; 1,2,3-trichlorobenzene; and 1,2,4-trichlorobenzene exceeded the laboratory control limits for QC sample 11F4528-BS1 and BSD in QC analytical batch U010814 analyzed on June 17, 2011 for SDG NUF-1960. The positive results for isopropylbenzene for the associated deviation required qualification as noted. The remaining deviations were non-detect and did not require qualification.

The blank spike percent recoveries for isopropylbenzene; 1,2,3-trichlorobenzene; and 1,2,4-trichlorobenzene exceeded the laboratory control limits for QC sample 11F4890-BS1 in QC analytical batch U010835 analyzed on June 19, 2011 for SDG NUF-1960. The positive results for isopropylbenzene for the associated deviation required qualification as noted. The remaining deviations were non-detect and did not require qualification.

The following table presents the blank spike excursions that required qualification. Deviations that did not affect the data have not been reported on the table.

BS/BSD I.D.	Analyte	BS %Recovery	Control Limits %Recovery (RPD)	Action	Qualified Samples
11F4149-BSD (NUF-1504)	Isopropylbenzene	125%	65-121%	1	F-01A (1-3') (1504-03)
11F4149-BSD (NUF-1686)	Isopropylbenzene	125%	65-121%	1	F-03A (1-3') (1686-05)

BS/BSD I.D.	Analyte	BS %Recovery	Control Limits %Recovery (RPD)	Action	Qualified Samples
11F4528-BS1/BSD (NUF-1960)	1,4-Dichlorobenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene Isopropylbenzene	130% 157% / 154% 178% / 173% 122%	80-129% 75-150% 64-150% 65-121%	3 3 3 1	F-02 (3') (1960-01)
11F4890-BS1 (NUF-1960)	1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene Isopropylbenzene	155% 170% 124%	75-150% 64-150% 65-121%	3 3 1	F-03B (0-1') (1960-05)

Action References:
1 - Detected results for the analyte have been 'J' qualified as estimated.
2 - The non-detected results for the analyte have been 'UJ' qualified as estimated reporting limits.
3 – No qualification required, primary result is ND.

Matrix Spike / Matrix Spike Duplicate Recoveries

Matrix spikes may be performed on non-associated samples. Any deviations from non-associated spikes do not affect this dataset and would not require qualification. Several matrix spikes were performed on samples not related to this sample delivery group (SDG). In addition, matrix spikes were performed on samples F-09 (9.5-11') (NUF-1519-09); F-08 (2-3') (NUF-1504-01); F-07A (0-1') (NUF-1504-09); F-01B (4-6') (NUF-1717-08); D Baler (Water) (NUF-1697-01); and F-03A (4-5') (NUF-1686-06).

There were several issues and excursions associated with the matrix spikes performed. The data was evaluated against the laboratory's reported control limits for percent recovery and relative percent difference (RPD). No qualification would be required for percent recoveries or RPD values that exceeded control limits, when there were either no positive detects for those analytes or if the positive results had a concentration that was greater than 4x the spike added. Samples would only be qualified if both the matrix spike and the duplicate spike were outside the limits.

The RPD for styrene between the matrix spike and the matrix spike duplicate performed on sample F-09 (9.5-11') (NUF-1519-09) exceeded the laboratory control limits. No qualification was necessary for the high-biased deviation, since the RPD deviation only affects positive results and the associated primary sample result was non-detect for the deviated analyte.

There were numerous percent recoveries that did not meet or exceeded the laboratory control limits in the matrix spike performed on sample F-07A (0-1') (NUF-1504-09). Qualification was required due to matrix interferences as noted.

One of the two percent recoveries and the RPD for toluene in the matrix spike and/or the matrix spike duplicate performed on sample D Baler (Water) (NUF-1697-01) exceeded the laboratory control limits. No qualification was necessary for the high-biased MS recovery deviation since the recovery for the MSD was acceptable. No qualification was necessary, since the RPD

deviation only affects positive results and the associated primary sample result was non-detect for the deviated analyte. As well, the laboratory noted that the deviation may have been due to carryover from the previous analysis.

There were two percent recoveries that did not meet the laboratory control limits in the matrix spike and spike duplicate performed on sample Tunnel (Oil) (NUF-1697-04). Qualification was required due to matrix interferences as noted.

The following table presents the matrix spike excursions that required qualification. Deviations that did not affect the data have not been reported on the table.

MS/MSD I.D.	Analyte	MS/MSD %Recovery (RPD)	Control Limits %Recovery (RPD)	Action
F-07A (0-1') (NUF-1504-09)	Acetone	559%	29-181%	4
	Benzene	38%	42-141%	1, 2
	Bromobenzene	13%	19-154%	1, 2
	Bromochloromethane	38%	41-146%	1, 2
	Bromodichloromethane	22%	32-155%	1, 2
	sec-Butylbenzene	6%	10-170%	1, 2
	n-Butylbenzene	5%	10-183%	1, 2
	tert-Butylbenzene	7%	11-165%	1, 2
	Carbon Disulfide	34%	50-136%	1, 2
	Carbon Tetrachloride	22%	30-159%	1, 2
	Chlorobenzene	13%	25-151%	1, 2
	Chlorodibromomethane	16%	27-150%	1, 2
	2-Chlorotoluene	11%	25-166%	1, 2
	4-Chlorotoluene	11%	19-163%	1, 2
	1,2-Dibromoethane	19%	30-155%	1, 2
	Dibromomethane	27%	30-149%	1, 2
	1,4-Dichlorobenzene	8%	10-170%	1, 2
	1,3-Dichlorobenzene	8%	10-173%	1, 2
	1,2-Dichlorobenzene	7%	10-168%	1, 2
	1,3-Dichloropropane	28%	35-148%	1, 2
	cis-1,3-Dichloropropene	18%	23-152%	1, 2
	trans-1,3-Dichloropropene	12%	24-151%	1, 2
	1,1-Dichloropropene	26%	40-151%	1, 2
	Ethylbenzene	14%	21-165%	1, 2
	Hexachlorobutadiene	0%	10-173%	1, 2
	Isopropylbenzene	10%	20-139%	1, 2
	p-Isopropyltoluene	7%	10-164%	1, 2
	Naphthalene	5%	10-160%	1, 2
	n-Propylbenzene	10%	16-174%	1, 2
	1,1,1,2-Tetrachloroethane	17%	31-150%	1, 2
	1,1,2,2-Tetrachloroethane	26%	27-163%	1, 2
	Tetrachloroethylene	12%	33-155%	1, 2
	Toluene	22%	45-145%	1, 2
	1,2,3-Trichlorobenzene	2%	10-182%	1, 2
	1,2,4-Trichlorobenzene	3%	10-175%	1, 2
	1,1,2-Trichloroethane	30%	43-145%	1, 2
	1,1,1-Trichloroethane	37%	39-148%	1, 2

MS/MSD I.D.	Analyte	MS/MSD %Recovery (RPD)	Control Limits %Recovery (RPD)	Action
	Trichloroethylene	22%	39-150%	1, 2
	1,3,5-Trimethylbenzene	11%	38-148%	1, 2
	1,2,4-Trimethylbenzene	18%	22-164%	1, 2
	Xylenes (Total)	15%	31-159%	1, 2
Tunnel (Oil) (NUF-1697-04)	Bromomethane	14% / 13%	16-172%	1, 2
	Chloroethane	15% / 13%	44-155%	1, 2

Action References:
1 - Detected results for the analyte have been 'J' qualified as estimated.
2 - The non-detected results for the analyte have been 'UJ' qualified as estimated reporting limits.
3 – No qualification required, only one not both MS and MSD deviated.
4 – No qualification required, primary result is ND or primary >4x spike.

Field Duplicate Analysis

There were no field duplicates collected with this dataset for VOCs. The field duplicate would have been evaluated against the following criteria. The RPD values should be within 25% for waters and within 50% for solids, when both the primary and duplicate concentrations exceed 5x the lesser RL. When one or both samples have a concentration less than 5x the lesser RL, the net absolute difference (ABD) between the duplicate and primary should be within 2x the lesser RL for waters and 3x the lesser RL for solids. *(i.e. for solids: RPD of 53% is > 50%; ABD of primary 56.0 – duplicate 4.5 = 51.5 ABD, which is then compared to the RL of 4.5 x3 = 13.5 ABD action limit).*

Additional Analytical Notations

There were no additional notations.

Semi-Volatile Organic Compounds

Holding Period/Preservation

The sample-holding period requirements vary depending upon the sample matrix and the preservation method used. However, all samples should maintain a 2-6°C cooler temperature until arrival at the laboratory. Cooler temperature qualification affects the data analyzed for all semi-volatiles. In addition, water samples have 7-days from time-of-collection to time-of-extraction and then 40-days to time-of-analysis, and soil samples have 14-days from time-of-collection to time-of-extraction and then 40-days to time-of-analysis.

There was an issue with regard to non-compliant cooler temperatures and this resulted in qualification of the data as noted in the previous General Comments section. All samples were prepared and analyzed within the appropriate holding periods. All samples were extracted and analyzed within the appropriate holding periods.

Blank Analysis

There was one issue, but no excursions associated with the method blanks performed. When laboratory artifacts are reported for method blanks, the sample results would be qualified based on the observed contamination. All method blank values, which have results greater than the MDL value, would be evaluated among the samples within the analytical batch. Sample results reported at concentrations less than 5x (10x for common artifacts) the blank contamination would be 'U' qualified as not detected and the reporting limit would be raised to the reported value for the analyte. No qualification is required for contaminants, when there were no positive results reported for the specific contaminants or when the positive results reported were greater than the action limit.

Lab contaminant bis(2-ethylhexyl)phthalate was reported in method blank 11F3082-BLK1 of SDG NUF-1681. No qualification was necessary, since the associated sample results were non-detect.

Surrogate Recoveries

There were several issues, but no excursions associated with the surrogate recoveries. The data was evaluated against the laboratory's reported control limits. Samples were only qualified if two or more deviated recoveries occur within the same fraction (base/neutral or acid). Qualification is not required for high biased deviations, which only affect positive results when the associated results are non-detect. In addition, qualification was not required when there were unacceptable recoveries due to dilutions (greater than 5x) or when results were incorporated from other analytical batches.

The percent recoveries for all of the base/neutral and acid surrogates did not meet or exceeded the laboratory control limits in sample D Baler (Water) (NUF-1697-01). No qualification was required since the sample required a 5x dilution and the laboratory noted that the surrogates were reduced to a level where the recovery calculation is not useful.

The percent recovery for one of the base/neutral surrogates exceeded the laboratory control limits in sample Tunnel (Oil) (NUF-1697-04). No qualification was required since the deviation only included one of the surrogates within the same fraction.

Laboratory Control Sample Recoveries

There were no issues or excursions associated with the LCS recoveries. The data was evaluated against the laboratory's reported control limits. Qualification is not required for high biased deviations when the associated results are non-detect, since they only affect positive results.

Matrix Spike / Matrix Spike Duplicate Recoveries

Matrix spikes may be performed on non-associated samples. Any deviations from non-associated spikes do not affect this dataset and would not require qualification. Matrix spikes were performed on sample F-04A (5-7') (NUF-1717-06).

There were no issues or excursions associated with the matrix spikes performed. The data was evaluated against the laboratory's reported control limits for percent recovery and RPD. No qualification would be required for percent recoveries or RPD values that exceeded control limits, when there were either no positive detects for those analytes or if the positive results had a concentration that was greater than 4x the spike added. Samples would only be qualified if both the matrix spike and the duplicate spike were outside the limits.

Field Duplicate Analysis

There were no field duplicates collected with this dataset for SVOCs. The field duplicate would have been evaluated against the following criteria. The RPD values should be within 25% for waters and within 50% for solids, when both the primary and duplicate concentrations exceed 5x the lesser RL. When one or both samples have a concentration less than 5x the lesser RL, the net absolute difference (ABD) between the duplicate and primary should be within 2x the lesser RL for waters and 3x the lesser RL for solids. *(i.e. for solids: RPD of 53% is > 50%; ABD of primary 56.0 – duplicate 4.5 = 51.5 ABD, which is then compared to the RL of 4.5 x3 = 13.5 ABD action limit).*

Additional Analytical Notations

There were no additional notations.

TPH-GRO, TPH-D, TPH-O

Holding Period/Preservation

The sample-holding period requirements vary depending upon the sample matrix and the preservation method used. However, all samples should maintain a 2-6°C cooler temperature until arrival at the laboratory. Cooler temperature qualification affects the data analyzed for all TPH-G volatiles. In addition, water volatiles have 14-days from time-of-collection to time-of-analysis. The soil volatiles by method 5030 have 14-days from time-of-collection to time-of-analysis. The soil volatiles by method 5035A have 14–days (if field preserved with methanol, deionized water or sodium bisulfate, or an initial 48-hours if laboratory preserved) from time-of-collection to time-of-analysis. The, semi-volatiles (TPH-D and TPH-O) water samples have 7-days from time-of-collection to time-of-extraction and then 40-days to time-of-analysis, and semi-volatile soil samples have 14-days from time-of-collection to time-of-extraction and then 40-days to time-of-analysis.

The volatile TPH-G soil samples were submitted in accordance with method 5030. There was an issue with regard to non-compliant cooler temperatures and this resulted in qualification of the data as noted in the previous General Comments section. All samples were prepared and analyzed within the appropriate holding periods. All samples were prepared and analyzed within the appropriate holding periods for the TPH parameters.

Blank Analysis

There were no issues or excursions associated with the method blanks performed. When laboratory artifacts are reported for method blanks or trip blanks, the sample results would be qualified based on the observed contamination. All method blank values, which have results greater than the method detection limit (MDL) value, would be evaluated among the samples within the analytical batch. Sample results reported at concentrations less than 5x (10x for common artifacts) the blank contamination would be 'U' qualified as not detected and the reporting limit (RL) would be raised to the reported value for the analyte. No qualification is required for contaminants, when there were no positive results reported for the specific contaminants or when the positive results reported were greater than the action limit.

Surrogate Recoveries

There were several issues, but no excursions associated with the surrogate recoveries. The data was evaluated against the laboratory's reported control limits. Samples may be qualified when any of the four surrogates has a deviated recovery. Qualification is not required for high biased deviations, which only affect positive results when the associated results are non-detect. In addition, qualification is not required when there are unacceptable recoveries due to dilutions (greater than 5x) or when results are incorporated from other analytical batches.

The surrogate percent recovery for TPH-DRO/ORO did not meet or exceeded the laboratory control limits in the diluted analysis of sample F-08 (2-3') (NUF-1504-01). The deviation did not require qualification, since the dilution was greater than 5x and the laboratory noted that the surrogates were reduced to a level where the recovery calculation is not useful.

The surrogate percent recovery for TPH-DRO/ORO did not meet or exceeded the laboratory control limits in the diluted analysis of sample F-01A (1-3') (NUF-1504-03). The deviation did not require qualification, since the dilution was greater than 5x and the laboratory noted that the surrogates were reduced to a level where the recovery calculation is not useful.

The surrogate percent recovery for TPH-DRO/ORO did not meet or exceeded the laboratory control limits in the diluted analysis of sample F-06 (1-2') (NUF-1504-06). The deviation did not require qualification, since the dilution was greater than 5x and the laboratory noted that the surrogates were reduced to a level where the recovery calculation is not useful.

The surrogate percent recovery for TPH-DRO/ORO did not meet or exceeded the laboratory control limits in the diluted analysis of sample F-07A (0-1') (NUF-1504-09). The deviation did not require qualification, since the dilution was greater than 5x and the laboratory noted that the surrogates were reduced to a level where the recovery calculation is not useful.

The surrogate percent recovery for TPH-DRO/ORO did not meet or exceeded the laboratory control limits in the diluted analysis of sample F-SD (0-1') (NUF-1717-01). The deviation did not require qualification, since the dilution was greater than 5x and the laboratory noted that the surrogates were reduced to a level where the recovery calculation is not useful.

The surrogate percent recovery for TPH-DRO/ORO did not meet or exceeded the laboratory control limits in the diluted analysis of sample F-10 (NUF-1717-04). The deviation did not require qualification, since the dilution was greater than 5x and the laboratory noted that the surrogates were reduced to a level where the recovery calculation is not useful.

The surrogate percent recovery for TPH-DRO/ORO did not meet or exceeded the laboratory control limits in the diluted analysis of sample F-01B (1-2') (NUF-1717-07). The deviation did not require qualification, since the dilution was greater than 5x and the laboratory noted that the surrogates were reduced to a level where the recovery calculation is not useful.

The surrogate percent recovery for TPH-DRO/ORO did not meet or exceeded the laboratory control limits in the diluted analysis of sample D Baler (Water) (NUF-1697-01). The deviation did not require qualification, since the dilution was greater than 5x and the laboratory noted that the surrogates were reduced to a level where the recovery calculation is not useful.

The surrogate percent recovery for TPH-DRO/ORO did not meet or exceeded the laboratory control limits in the diluted analysis of sample F-05A (0-1') (NUF-1686-03). The deviation did not require qualification, since the dilution was greater than 5x and the laboratory noted that the surrogates were reduced to a level where the recovery calculation is not useful.

The surrogate percent recovery for TPH-DRO/ORO did not meet or exceeded the laboratory control limits in the diluted analysis of sample F-05B (0-1') (NUF-1686-04). The deviation did not require qualification, since the dilution was greater than 5x and the laboratory noted that the surrogates were reduced to a level where the recovery calculation is not useful.

The surrogate percent recovery for TPH-DRO/ORO did not meet or exceeded the laboratory control limits in the diluted analysis of sample F-03A (1-3') (NUF-1686-05). The deviation did not require qualification, since the dilution was greater than 5x and the laboratory noted that the surrogates were reduced to a level where the recovery calculation is not useful.

The surrogate percent recovery for TPH-DRO/ORO did not meet or exceeded the laboratory control limits in the diluted analysis of sample F-03B (0-1') (NUF-1960-05). The deviation did not require qualification, since the dilution was greater than 5x and the laboratory noted that the surrogates were reduced to a level where the recovery calculation is not useful.

Laboratory Control Sample Recoveries

There were no issues or excursions associated with the LCS recoveries for TPH-G. The data was evaluated against the laboratory's reported control limits. Qualification is not required for high biased deviations when the associated results are non-detect, since they only affect positive results.

Matrix Spike / Matrix Spike Duplicate Recoveries

Matrix spikes may be performed on non-associated samples. Any deviations from non-associated spikes do not affect this dataset and would not require qualification. Several matrix spikes were performed on samples not related to this sample delivery group (SDG). In addition, matrix spikes were performed sample F-06 (4-6') (NUF-1504-07), F-01B (4-6') (NUF-1717-08), F-02 (3') (NUF-1960-01), and on unassociated samples.

There were no issues or excursions with the matrix spikes performed. The data was evaluated against the laboratory's reported control limits for percent recovery and relative percent difference (RPD). No qualification would be required for percent recoveries or RPD values that exceeded control limits, when there were either no positive detects for those analytes or if the positive results had a concentration that was greater than 4x the spike added. Samples would only be qualified if both the matrix spike and the duplicate spike were outside the limits.

Field Duplicate Analysis

There were no field duplicates collected with this dataset for TPH-G. The field duplicate would have been evaluated against the following criteria. The RPD values should be within 25% for waters and within 50% for solids, when both the primary and duplicate concentrations exceed 5x the lesser RL. When one or both samples have a concentration less than 5x the lesser RL, the net absolute difference (ABD) between the duplicate and primary should be within 2x the lesser RL for waters and 3x the lesser RL for solids. *(i.e. for solids: RPD of 53% is > 50%; ABD of primary 56.0 – duplicate 4.5 = 51.5 ABD, which is then compared to the RL of 4.5 x3 = 13.5 ABD action limit).*

Additional Analytical Notations

The laboratory noted that there was insufficient sample volume to continue further dilutions on sample D Baler (Water) (NUF-1697-01). The reported value for TPH-D was within the calibration linear range, but not performed at the most appropriate dilution. The sample result was "J" qualified as having an estimated value.

PolyChlorinated Biphenyls

Holding Period/Preservation

The sample-holding period requirements vary depending upon the sample matrix and the preservation method used. However, all samples should maintain a 2-6°C cooler temperature until arrival at the laboratory. Cooler temperature qualification affects the data analyzed for all semi-volatiles, including PCBs. In addition, water samples have 7-days from time-of-collection to time-of-extraction and then 40-days to time-of-analysis, and solids/wipes have 14-days from time-of-collection to time-of-extraction and then 40-days to time-of-analysis.

There was an issue with regard to non-compliant cooler temperatures and this resulted in qualification of the data as noted in the previous General Comments section. All samples were prepared and analyzed within the appropriate holding periods. All of the samples were extracted and analyzed within the appropriate holding periods.

Blank Analysis

There were no issues or excursions associated with the method blanks performed. When laboratory artifacts are reported for method blanks, the sample results would be qualified based on the observed contamination. All method blank values, which have results greater than the MDL value, would be evaluated among the samples within the analytical batch. Sample results reported at concentrations less than 5x the blank contamination would be 'U' qualified as not detected and the reporting limit would be raised to the reported value for the analyte. No qualification is required for contaminants, when there were no positive results reported for the specific contaminants or when the positive results reported were greater than the action limit.

Surrogate Recoveries

There were several issues, but no excursions associated with the surrogate recoveries. The data was evaluated against the laboratory's reported control limits. Samples may be qualified when the recovery for either of the surrogates decachlorobiphenyl (DCBP) or tetrachloro-m-xylene (TCMX) is deviated. Qualification is not required for high biased deviations, which only affect positive results when the associated results are non-detect. In addition, qualification is not required when there are unacceptable recoveries due to dilutions (greater than 5x) or when results are incorporated from other analytical batches.

The percent recoveries for both surrogates did not meet or exceeded the laboratory control limits in the diluted analysis of sample F-07 (1-3') (NUF-1519-04). The deviation did not require qualification, since the dilution was greater than 5x and the laboratory noted that the surrogates were reduced to a level where the recovery calculation is not useful.

The percent recoveries for one of the two surrogates did not meet or exceeded the laboratory control limits in the diluted analysis of sample F-10 (NUF-1717-04). The deviation did not require qualification, since the dilution was greater than 5x and the laboratory noted that the surrogates were reduced to a level where the recovery calculation is not useful.

The percent recoveries for one of the two surrogates exceeded the laboratory control limits in the diluted analysis of sample F-03A (1-3') (NUF-1686-05). The deviation did not require qualification, since the dilution was greater than 5x and the laboratory noted that the surrogates were reduced to a level where the recovery calculation is not useful.

The percent recoveries for one of the two surrogates exceeded the laboratory control limits in the undiluted analysis of sample F-04C (12-13') (NUF-1960-04). The high-biased deviation did not require qualification, since the associated primary sample results were non-detect.

Laboratory Control Sample Recoveries

There were no issues or excursions associated with the LCS recoveries. The data was evaluated against the laboratory's reported control limits. Only A-1016 and A-1260 were spiked in accordance with the analytical method. Qualification is not required for high biased deviations when the associated results are non-detect, since they only affect positive results.

Matrix Spike / Matrix Spike Duplicate Recoveries

Matrix spikes may be performed on non-associated samples. Any deviations from non-associated spikes do not affect this dataset and would not require qualification. Matrix spikes were performed on sample F-04A (5-7') (NUF-1717-06), F-04B (2-3') (NUF-1686-01), F-04C (5-6') (NUF-1960-03), and on unassociated samples.

There was one issue, but no excursions associated with the matrix spikes performed. The data was evaluated against the laboratory's reported control limits for percent recovery and RPD. Only A-1016 and A-1260 were spiked in accordance with the analytical method. No qualification would be required for percent recoveries or RPD values that exceeded control limits, when there were either no positive detects for those analytes or if the positive results had a concentration that was greater than 4x the spike added. Samples would only be qualified if both the matrix spike and the duplicate spike were outside the limits.

The percent recoveries for one of the two surrogates exceeded the laboratory control limits in the matrix spike sample F-04B (2-3') (NUF-1686-01). The deviation did not require qualification, since the aroclors spiked recoveries were acceptable and since the surrogate recoveries were acceptable in the unspiked primary sample.

Field Duplicate Analysis

There were no field duplicates collected with this dataset for PCBs. The field duplicate would have been evaluated against the following criteria. The RPD values should be within 25% for waters and within 50% for solids, when both the primary and duplicate concentrations exceed 5x the lesser RL. When one or both samples have a concentration less than 5x the lesser RL, the net absolute difference (ABD) between the duplicate and primary should be within 2x the lesser RL for waters and 3x the lesser RL for solids. *(i.e. for solids: RPD of 53% is > 50%; ABD of primary 56.0 – duplicate 4.5 = 51.5 ABD, which is then compared to the RL of 4.5 x3 = 13.5 ABD action limit).*

Additional Analytical Notations

There were no additional notations.

RCRA/TCLP Metals (As, Ba, Cd, Cr, Pb, Se, Ag, Hg)

Holding Period/Preservation

The holding requirements vary between mercury and the other metals. However, all samples should maintain a 2-6°C cooler temperature until arrival at the laboratory. Cooler temperature qualification affects the data analyzed for mercury only. The holding period for mercury analysis is 28-days from time-of-collection to time-of-analysis and the holding period for all other metals is 6-months (180-days) from time-of-collection to time-of-analysis.

There was an issue with regard to non-compliant cooler temperatures and this resulted in qualification of the data as noted in the previous General Comments section. All samples were prepared and analyzed within the appropriate holding periods. All samples were digested and analyzed within the appropriate holding periods.

Blank Analysis

There were no issues or excursions associated with the method blanks performed. When laboratory artifacts are reported for method blanks, the sample results would be qualified based on the observed contamination. All method blank values, which have results greater than the instrument detection limit (IDL) or MDL, value (which ever is higher) would be evaluated among the samples within the preparation batch. Sample results reported at concentrations less than 10x the blank contamination would be 'U' qualified as not detected and the reporting limit would be raised to the reported value for the analyte or the existing reporting limit, whichever is greater. Per the Functional Guidelines, deviations (ICB, CCB, or MB) with "**negative**" values >RL, would 'J' qualify the data as low biased hits (J-L) or limits (UJ) for all samples <10xRL. No qualification is required for contaminants, when there were no positive results reported for the specific contaminants or when the positive results reported were greater than the action limit.

Laboratory Control Spike Recoveries

There were no issues or excursions associated with the LCS recoveries. The data was evaluated against the laboratory's reported control limits. Qualification is not required for high biased deviations when the associated results are non-detect, since they only affect positive results.

Laboratory Replicate Analysis

Laboratory replicates may be performed on non-associated samples. Any deviations from non-associated replicates do not affect this dataset and would not require qualification. Laboratory replicates were performed on unassociated samples and were not reported.

Laboratory replicates would be evaluated against the laboratory's reported control limits and the Functional Guidelines. The RPD values for the 6010 and the 7471 analytes should be within 20% for waters and solids, when both the primary and replicate concentrations exceed 5x the lesser RL. When one or both samples have a concentration less than 5x the lesser RL, the net ABD between the duplicate and primary should be within 1x the lesser RL for waters and 2x the lesser RL for solids.

Matrix Spike Recoveries

Matrix spikes may be performed on non-associated samples. Any deviations from non-associated spikes do not affect this dataset and would not require qualification. Matrix spikes were performed on samples F-UG (1-3') (NUF-1519-01), F-08 (2-3') (NUF-1504-01), F-04B (2-3') (NUF-1686-01), and F-02 (3') (NUF-1960-01).

There were several issues and excursions associated with the matrix spikes performed. The data was evaluated against the laboratory's reported control limits. No qualification would be required for percent recoveries or RPD values that exceeded control limits, when there were either no positive detects for those analytes or if the positive results had a concentration that was greater than 4x the spike added. Qualification would not be required for deviations noted when the primary sample spiked is not associated with this dataset.

The percent recoveries and/or RPDs for arsenic, cadmium, chromium, lead, and selenium in the matrix spike and/or the matrix spike duplicate performed on sample F-08 (2-3') (NUF-1504-01) did not meet or exceeded the laboratory control limits. No qualification was necessary for lead, since the unspiked concentration was greater than 4x the spike added. Qualification was necessary for the remaining deviations as noted on the following table for the deviated analytes.

The percent recoveries and/or RPDs for lead, and mercury in the matrix spike and/or the matrix spike duplicate performed on sample F-04B (2-3') (NUF-1686-01) did not meet or exceeded the laboratory control limits. No qualification was necessary for lead, since the unspiked concentration was greater than 4x the spike added. Qualification was necessary for the remaining deviations as noted on the following table for the deviated analytes.

The percent recoveries for lead in the matrix spike and the matrix spike duplicate performed on sample F-02 (3') (NUF-1960-01) did not meet the laboratory control limits. No qualification was necessary for lead, since the unspiked concentration was greater than 4x the spike added.

The following table presents the matrix spike excursions that required qualification. Deviations that did not affect the data have not been reported on the table.

MS/MSD I.D.	Analyte	MS/MSD %Recovery (RPD)	Control Limits %Recovery (RPD)	Action
F-08 (2-3') (NUF-1504-01)	Arsenic	89% / 63% (18%)	75-125% (<20%)	1, 2
	Cadmium	153% / 132% (9%)	75-125% (<20%)	1
	Chromium	4% / -31% (14%)	75-125% (<20%)	1, 2
	Lead	122% / 1400% (12%)	75-125% (<20%)	3
	Selenium	14% / 38% (93%)	75-125% (<20%)	1, 2
F-04B (2-3') (NUF-1686-01)	Lead	-173% / -491% (62%)	75-125% (<20%)	3
	Mercury	62% / -9% (38%)	75-125% (<20%)	1, 2

Action References: 1 - Detected results for the analyte have been 'J' qualified as estimated.
2 - The non-detected results for the analyte have been 'UJ' qualified as estimated reporting limits.
3 – No qualification required, primary result is ND or primary >4x spike.

ICP Serial Dilution

The ICP serial dilutions were performed as required by the method. Although, the serial dilutions performed may be on non-associated samples. This does not affect the usability of the data. Any deviations from non-associated dilutions do not affect this dataset and would not require qualification. Serial dilutions were performed on unassociated samples and were not reported.

The serial dilution would be evaluated against the following method criteria. When any analyte concentration for a given sample is approximately 50x greater than the IDL, the 5-fold serial dilution analysis should be within 10% difference from the original sample result. No qualification is required if an excursion was due to sample concentration being less than 50x the IDL.

Field Duplicate Analysis

There were no field duplicates collected with this dataset for Metals. The field duplicate would have been evaluated against the following criteria. The RPD values should be within 25% for waters and within 50% for solids, when both the primary and duplicate concentrations exceed 5x the lesser RL. When one or both samples have a concentration less than 5x the lesser RL, the net absolute difference (ABD) between the duplicate and primary should be within 2x the lesser RL for waters and 3x the lesser RL for solids. *(i.e. for solids: RPD of 53% is > 50%; ABD of primary 56.0 – duplicate 4.5 = 51.5 ABD, which is then compared to the RL of 4.5 x3 = 13.5 ABD action limit).*

Additional Analytical Notations

The sample results, which are reported with a laboratory "B" flag indicates that the reported result is less than the given reporting limit but greater than the method detection limit. The "B" flags would be replaced with 'J' flags during the review process to indicate that the result should be considered as an estimated value. Although, for this dataset, no "B" flags were reported and it appears that the lowest concentration reported was above the reporting limit, not in between the reporting limit and the method detection limit, which is acceptable.

There were no additional notations.

REFERENCES

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Table 1
SAMPLE CROSS REFERENCE

C.O.C.	Client I.D.	Lab I.D.	Matrix	Collection Date	Analysis Method	Deviated Criteria
Lab COC (1 of 1)	F-UG (1-3')	NUF-1519-01	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None
"	F-UG (6-7')	NUF-1519-02	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None
"	F-UG (13-14')	NUF-1519-03	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None
"	F-07 (1-3')	NUF-1519-04	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None
"	F-07 (5-7')	NUF-1519-05	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None
"	F-07 (9-10')	NUF-1519-06	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None
"	F-09 (2-3')	NUF-1519-07	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None

C.O.C.	Client I.D.	Lab I.D.	Matrix	Collection Date	Analysis Method	Deviated Criteria
“	F-09 (7-9’)	NUF-1519-08	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None
“	F-09 (9.5-11’)	NUF-1519-09	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None
Lab COC (1 of 1)	F-08 (2-3’)	NUF-1504-01	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None MS
“	F-08 (3-4’)	NUF-1504-02	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None
“	F-01A (1-3’)	NUF-1504-03	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	SR, BS None None None None None
“	F-01A (6-8’)	NUF-1504-04	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	SR None None None None None
“	F-01A (9.5-10.5’)	NUF-1504-05	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None

C.O.C.	Client I.D.	Lab I.D.	Matrix	Collection Date	Analysis Method	Deviated Criteria
“	F-06 (1-2’)	NUF-1504-06	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	SR None None None None None
“	F-06 (4-6’)	NUF-1504-07	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None
“	F-06 (8-9’)	NUF-1504-08	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None
“	F-07A (0-1’)	NUF-1504-09	Soil	6/07/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	SR, MS None None None None None
Lab COC (1 of 1)	SWDG	NUF-1681-01	Water	6/08/2011	VOCs SVOCs TPH-GRO TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None None
“	F-UG	NUF-1681-02	Water	6/08/2011	VOCs TPH-GRO PCBs RCRA Metals	None None None None
“	F-07	NUF-1681-03	Water	6/08/2011	VOCs SVOCs TPH-GRO TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None None

C.O.C.	Client I.D.	Lab I.D.	Matrix	Collection Date	Analysis Method	Deviated Criteria
Lab COC (1 of 1)	F-SD (0-1')	NUF-1717-01	Soil	6/08/2011	VOCs SVOCs TPH-GRO TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None None
"	F-11	NUF-1717-02	Soil	6/08/2011	VOCs SVOCs TPH-GRO TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None None
"	F-SU (0-1')	NUF-1717-03	Soil	6/08/2011	VOCs SVOCs TPH-GRO TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None None
"	F-10	NUF-1717-04	Soil	6/08/2011	VOCs SVOCs TPH-GRO TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None None
"	F-04A (2-3')	NUF-1717-05	Soil	6/08/2011	VOCs SVOCs TPH-GRO TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None None
"	F-04A (5-7')	NUF-1717-06	Soil	6/08/2011	VOCs SVOCs TPH-GRO TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None None

C.O.C.	Client I.D.	Lab I.D.	Matrix	Collection Date	Analysis Method	Deviated Criteria
“	F-01B (1-2’)	NUF-1717-07	Soil	6/08/2011	VOCs SVOCs TPH-GRO TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None None
“	F-01B (4-6’)	NUF-1717-08	Soil	6/08/2011	VOCs SVOCs TPH-GRO TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None None
Lab COC (1 of 1)	D Baler (Water)	NUF-1697-01	Water	6/08/2011	VOCs SVOCs TPH-GRO TPH-DRO TPH-ORO RCRA Metals	SR None None E None None
“	Tunnel (Water)	NUF-1697-02	Water	6/08/2011	RCRA Metals	None
“	F-01A	NUF-1697-03	Water	6/08/2011	VOCs SVOCs TPH-GRO TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None None
“	Tunnel (Oil)	NUF-1697-04	Oil	6/08/2011	VOCs SVOCs	MS None
“	D Baler (Oil)	NUF-1697-05	Oil	6/08/2011	PCBs	None
Lab COC (1 of 1)	F-04B (2-3’)	NUF-1686-01	Soil	6/08/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None MS
“	F-04B (8-9’)	NUF-1686-02	Soil	6/08/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None

C.O.C.	Client I.D.	Lab I.D.	Matrix	Collection Date	Analysis Method	Deviated Criteria
“	F-05A (0-1’)	NUF-1686-03	Soil	6/08/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	SR None None None None None
“	F-05B (0-1’)	NUF-1686-04	Soil	6/08/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	SR None None None None None
“	F-03A (1-3’)	NUF-1686-05	Soil	6/08/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	BS None None None None None
“	F-03A (4-5’)	NUF-1686-06	Soil	6/08/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None
“	F-IDW	NUF-1686-07	Soil	6/08/2011	TCLP Metals	None
Lab COC (1 of 1)	F-02 (3’)	NUF-1960-01	Soil	6/10/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	BS None None None None None
“	F-02 (5-6’)	NUF-1960-02	Soil	6/10/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None
“	F-04C (5-6’)	NUF-1960-03	Soil	6/10/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None

C.O.C.	Client I.D.	Lab I.D.	Matrix	Collection Date	Analysis Method	Deviated Criteria
"	F-04C (12-13')	NUF-1960-04	Soil	6/10/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None
"	F-03B (0-1')	NUF-1960-05	Soil	6/10/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	SR, BS None None None None None
"	F-03C (5-6')	NUF-1960-06	Soil	6/10/2011	VOCs SVOCs TPH-DRO TPH-ORO PCBs RCRA Metals	None None None None None None

Method References: "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986, and its updates (SW-846 / **5035-8260B; 3550B/3510C-8270D**; 3550B/3510C-8015B; **3550B/3510C-8082A**; 3550B/8151; 3550B/8081A; **3050B/3510C/1311-6010B; 7471A/7470A**).

"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions, (MCAWW / 353.2-m).

"Standard Methods for the Examination of Water and Wastewater," 19th Edition 1995, (APHA, AWWA, WPCF), (SM / 2540B-M).

Excursion References: None - There were no qualified deviations.
HP – Unacceptable Holding Period
SP – Unacceptable Sample Preservation
MB – Method Blank Contamination
TB – Trip Blank Contamination
RB – Rinsate Blank Contamination
CC – Unacceptable Calibration Criteria (RRF, RF, %RSD, %D)
RLV – Unacceptable Reporting Limit Verification Criteria
IS – Unacceptable Internal Standard Criteria
SR – Unacceptable Surrogate Recovery Criteria
BS – Unacceptable Laboratory Control Sample Criteria
MS – Unacceptable Matrix Spike Criteria
SD – Unacceptable ICP Serial Dilution Correlation
LR – Unacceptable Laboratory Replicate Correlation
FD – Unacceptable Field Duplicate Correlation
E – Reported value not performed at final dilution (may or may not exceed calibration linear range)

Table 4-1
Soil Sampling Results (Hits Only)
Sharpiro Brothers, Inc.
9th and Delmar Avenue
Festus, Missouri

Analyte	Lowest MRBCA Default Target Levels	Non-Residential Soil Type 3 (Clayey)		Groundwater Protection	REC-1, Decommissioned Baler, Tunnel Exit, Fluff Pile							REC-2, 3, 4, Shredder, Shear, and Scrap Piles						REC-5, Torch Cutting Area		REC-6, AST Release Near Maintenance Bldg.			REC-7, Rail Scale Area			
Sample Designation		Surficial Soil	Subsurface Soil	Soil Type 3 (Clayey)	F-01A	F-01A	F-01A	F-01B	F-01B	F-02 TP	F-02 TP	F-04A TP	F-04A TP	F-04B TP	F-04B TP	F-04C TP	F-04C	F-05A	F-05B	F-06	F-06	F-06	F-07A	F-07	F-07	F-07
Depth Interval (feet bgs)					1-3	6-8	9.5-10.5	1-2	4-6	3	5-6	2-3	5-7	2-3	8-9	5-6	12-13	0-1	0-1	1-2	4-6	8-9	0-1	1-3	5-7	9-10
Lab ID					NUF1504-03	NUF1504-04	NUF1504-05	NUF1717-07	NUF1717-08	NUF1960-01	NUF1960-02	NUF1717-05	NUF1717-06	NUF1686-01	NUF1686-02	NUF1960-03	NUF1960-04	NUF1686-03	NUF1686-04	NUF1504-06	NUF1504-07	NUF1504-08	NUF1504-09	NUF1519-04	NUF1519-05	NUF1519-06
Date Sampled					6/7/2011	6/7/2011	6/7/2011	6/8/2011	6/8/2011	6/10/2011	6/10/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/10/2011	6/10/2011	6/8/2011	6/8/2011	6/7/2011	6/7/2011	6/7/2011	6/7/2011	6/7/2011	6/7/2011	6/7/2011
Volatile Organic Compounds (mg/kg) (SW846 8260B)																										
1,2,4-Trimethylbenzene	3.93	10,100	373	3.94	1.89	ND	0.0543 PX	ND	ND	0.204 PX	ND	ND	ND	0.00382 PX,J	ND	ND	ND	ND	0.367 J,PX	0.00933 J,PX	ND	ND	0.00453 J	ND	ND	ND
1,3,5-Trimethylbenzene	0.882	10,100	59.6	0.894	0.603	ND	0.0175 PX	ND	ND	0.105 PX	ND	ND	ND	ND	ND	ND	ND	ND	0.188 J,PX	0.091 J,PX	ND	ND	0.00231 J	ND	ND	ND
2-Butanone	7.3	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	19.5	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	4.2	807,000	115,000	10.6	0.0766 J	0.113 J	0.0625 PX	ND	ND	0.158 PX	0.114 PX	0.152 PX,J	0.165 PX,J	0.151 PX,J	ND	0.0725 PX	ND	0.132 PX,J	0.0811 J,PX	ND	ND	ND	ND	ND	ND	ND
Benzene	0.0561	763	7.51	0.0655	0.00316 J	0.00242 J	ND	ND	ND	0.00624 PX	ND	0.00382 PX,J	ND	ND	ND	ND	ND	0.0199 PX,J	0.0123 J,PX	ND	ND	ND	ND	0.00242 J	ND	ND
Carbon disulfide	6.26	95,600	172	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00604 PX,J	0.00779 J,PX	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.0766	17,600	416	2.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	39.9	8,660	11.8	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	10.5	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01 PX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.0766	678	1.63	0.798	0.00975 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00517 PX,J	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	0.204	2,060	3.78	0.227	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	39.9	97,500	5,200	41.1	0.0418 J	0.00304 J	0.00654 PX	ND	ND	0.0245 PX	ND	ND	ND	0.0051 PX,J	ND	ND	ND	0.00421 PX,J	0.0419 J,PX	0.00242 J,PX	ND	ND	0.00461 J	ND	ND	ND
Isopropylbenzene	10.5	91,100	267	27.9	0.00976 J,L1	ND	ND	ND	ND	0.0082 PX,J	ND	ND	ND	ND	ND	ND	ND	ND	0.00674 J,PX	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	0.398	14,900	615	0.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00487 PX	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	0.0176	3,700	77	0.0278	0.133 J	ND	ND	0.0463 PX,J	0.0258 PX,J	ND	ND	ND	ND	ND	0.0133 PX,J	0.0132 PX	ND	0.107 PX,J	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.325	119	443	0.327	0.835	ND	0.0123 PX	ND	ND	0.0392 PX	ND	ND	ND	ND	ND	ND	ND	ND	0.337 J,PX	0.0101 J,PX	ND	ND	ND	ND	ND	ND
n-Butylbenzene	41.6	35,900	3,080	41.8	0.351	ND	0.0066 PX	ND	ND	0.0387 PX	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0273 J,PX	ND	ND	ND	ND	ND	ND
n-Propylbenzene	13	35,900	1,060	13.2	0.229	ND	0.00618 PX	ND	ND	0.0278 PX	ND	ND	ND	ND	ND	ND	ND	ND	0.143 J,PX	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	271	---	---	---	ND	ND	ND	ND	ND	0.00838 PX	ND	ND	ND	ND	ND	0.008 PX	ND	ND	ND	0.0256 J,PX	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	35.2	35,900	1,710	35.4	ND	ND	ND	ND	ND	0.00565 PX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	11.7	186,000	31,500	11.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.141	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00537 PX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	29.8	81,100	13,800	31.6	0.0146 J	0.0101 J	0.00292 PX	0.00472 PX,J	ND	0.00892 PX	ND	ND	ND	0.0126 PX,J	ND	0.00233 PX	ND	0.0177 PX,J	0.0475 J,PX	0.0047 J,PX	ND	ND	0.0142 J	0.00318 J	ND	ND
Trichlorofluoromethane	7.35	254,000	181	29.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00231 J	ND	ND	ND
Xylenes, total	24.7	104,000	663	652	0.249 J	0.00627 J	0.0464 PX	ND	ND	0.143 PX	ND	ND	ND	0.00675 PX,J	ND	ND	ND	0.0072 PX,J	0.264 J,PX	0.0226 J,PX	ND	ND	0.00586 J	ND	ND	ND
Semi-Volatile Organic Compounds (mg/kg) (SW846 8270C)																										
1-Methylnaphthalene	---	---	---	---	0.668	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	7.55	3,590	16,400	7.57	1.33	ND	0.0717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/4-Methylphenol	---	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	174	30,700	1,720,000	175	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	175	54,100	2,150,000	175	ND	ND	ND	0.267 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	3,060	154,000	10,100,000	3,060	ND	ND	ND	0.194 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	6.12	21	2,310,000	6.12	ND	0.35	ND	0.748 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.105	0.106 J	ND	ND
Benzo (a) pyrene	0.62	2	933,000	30.4	ND	0.397	ND	0.962 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.107	0.15 J	ND	ND
Benzo (b) fluoranthene	6.19	21	909,000	11.5	ND	0.566	ND	1.38 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.142	0.189 J	ND	ND
Benzo (g,h,i) perylene	1,720	16,500	1,240,000,000	6,210	ND	0.464	ND	0.564 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.107	0.124 J	ND	ND
Benzo (k) fluoranthene	62	211	19,900,000	118	ND	ND	ND	0.808 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0953	0.162 J	ND	ND
Bis(2-ethylhexyl)phthalate	347	1,230	11,700,000,000	13,500	8.18	3.16	0.464	1.41 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.79 J	23.6 J	ND	ND	ND	ND	0.752 J	ND	ND
Butyl benzyl phthalate	12,200	123,000	2,830,000,000	13,300	4.58	4.5	0.414	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.825	ND	ND	ND
Chrysene	599	2,040	3,120,000	612	0.142	0.468	ND	0.865 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.139	0.148 J	ND	ND
Dibenz (a,h) anthracene	1	2	7,440,000	2	ND	ND	ND	0.211 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	1,120	5,680,000	142,000,000	1,450	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	---	---	---	---	1.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	75.8	23,200	2,410,000	76.3	0.792	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	2,280	21,900	191,000,000	2610	0.244	0.631	ND	0.668 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36 J	ND	ND	ND	ND	0.231	0.136 J	ND	ND
Fluorene	211	21,300	6,060,000	211	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-cd) pyrene	3.77	13	50,500,000	19.7	ND	ND	ND	0.556 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0731	0.11 J	ND	ND
Naphthalene	0.325	119	443	0.327	0.772	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	158	28,200	2,520,000	158	0.264	ND	ND	0.104 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.108	0.0746 J	ND	ND
Phenol	25.6	128,000	407,000	35.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	1,500	16,400	197,000,000	1500	0.264	0.594	ND	0.848 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.376 J	ND	0.0672	ND	ND	0.21	0.154 J	ND	ND
Metals Analysis (mg/kg) (SW846 6010B/7471A)																										
Arsenic	3.89	15.9	---	7.23	20.9	5.51	5.85	11.5 J	7.58 J	6.41	7.91	7.48 J	5.17 J	6.29 J	14.4 J	15	6.7	50.7 J	24.6 J	11	6.59	6.05	12.6	8.97 J	5.55 J	4.24 J
Barium	2,040	181,000	---	2,040	1310	121	85.7	232 J	129 J	198	165	238 J	105 J	218 J	119 J	202	161	560 J	577 J	245	82.4	70.1	437	270 J	106 J	103 J
Cadmium	9.31	74.8	---	9.32	ND	ND	ND	3.46 J	ND	ND	ND	ND	1.31 J	2.65 J	ND	ND	ND	108 J	87.3 J	21.3	ND	ND	31.7	4.98 J	ND	ND
Chromium	74,600	472,000	---	4,470,000	136	18.4	17.6	31.2 J	20.4 J	19.2	24.5	27.1 J	12.6 J	23.2 J	21.3 J	20.8	23.6	665 J	499 J	36.3	24.4	26.9	62.8	24.5 J	19.3 J	15.7 J
Lead	3.74	660	---	3.77	1,330	7.94	8.97	3,980 J	10.8 J	391 MS	9.74	141 J	164 J	203 J,MHA	94.9 J	641	11.4	36,700 J	19,700 J	2,700	19.5	33.3	3,350	822 J	7.47 J	14.6 J
Selenium	6.27	4,780	---	6.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.35 J	ND	ND	ND	ND	ND	ND	ND	ND	2.28	ND	ND	ND
Silver	16.2	4,480	---	16.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.1 J	83.3 J	2.79	ND	ND	2.36	ND	ND	ND
Mercury	2.19	630	512	---	0.65	ND	ND	0.23 J	ND	ND	ND	0.32 J	ND	0.32 J,M8	0.23 J	ND	ND	0.32 J	0.7 J	0.43	ND	ND	0.99	0.55 J	ND	ND
8015B)																										
Diesel	4,150	1,410,000	109,000	2,940,000,000	586	ND	ND	296 J	ND	18.6	ND	ND	5.61 J	121 J	299 J	6.49	ND	1,960 J	28,800 J	3,080	13.5	50.4	825	30.7 J	ND	ND
TPH - Oil Range	124,000	1,250,000	---	2,940,000,000	2140	4.26	ND	628 J	ND	25.1	ND	6.39 J	14.4 J	381 J	854 J	16.1	ND	4,620 J	34,600 J	1,670	10	41.1	1,570	60.4 J	ND	ND
PCBs (mg/kg) (SW846 8082A)																										
PCB-1242	0.0557	6.94	246	0.0558	2.52	ND	0.378	1.33 J	ND	ND	ND	ND	ND	ND	0.0842 J	ND	ND	0.233 J	0.394 J	ND	ND	ND	ND	ND	ND	ND
PCB-1248	1.08	7.21	2,420	1.44	ND	ND	ND	ND	ND	0.0458	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	1.1	7.29	6,370	2.42	1.44	1.94	0.14	0.73 J	ND	ND	ND	ND	ND	ND	0.0431 J	ND	ND	0.14 J	ND	0.168	ND	ND	0.42	28.5 J	ND	0.0697 J
PCB-1260	1.11	7.38	48,000	33.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.21 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
Only detections above reporting limit are shown
NS: Not Sampled
ND : Not Detected
TP: Test Pit
26 Concentrations exceeding the MRBCA lowest default target levels
Concentrations exceeding MRBCA non-residential soil target levels
Concentrations exceeding the soil concentration protective of domestic use of groundwater pathway standards
MRBCA Table B-7 Tier I Risk-Based Target Levels For Non-residential land use soil Type 3 (Clayey)
Industrial Surficial Soils within depths of 0-3 ft. below ground surface are compared to the ingestion, inhalation (Vapor Emissions and particulates), and Dermal Contact
Industrial Subsurface Soil within depths of 3 ft. and greater are compared to the indoor inhalation of vapor emissions.

See additional footnotes on 2nd page.

Made Changes
7/12/11 SE

Table 4-1
Soil Sampling Results (Hits Only)
Sharpiro Brothers, Inc.
9th and Delmar Avenue
Festus, Missouri

Analyte	Lowest MRBCA Default Target Levels	Non-Residential Soil Type 3 (Clayey)		Groundwater Protection	REC-8, Railcar Processing Area						Down Gradient of Rail Scale Area			Fluff Pile	Yard Scrappings	Down-Gradient Sediment	Up-Gradient Sediment	Up-Gradient Sample, NW Corner of Site		
Sample Designation		Surficial Soil	Subsurface Soil	Soil Type 3 (Clayey)	F-03A TP	F-03A TP	F-03B TP	F-03C TP	F-08 TP	F-08 TP	F-09	F-09	F-09	F-10	F-11	F-SD	F-SU	F-Ug	F-Ug	F-Ug-
Depth Interval (feet bgs)					1-3	4-5	0-1	5-6	2-3	3-4	2-3	7-9	9.5-11	---	---	0-1	0-1	1-3	6-7	13-14
Lab ID					NUF1686-05	NUF1686-06	NUF1960-05	NUF1960-06	NUF1504-01	NUF1504-02	NUF1519-07	NUF1519-08	NUF1519-09	NUF1717-04	NUF1717-02	NUF1717-01	NUF1717-03	NUF1519-01	NUF1519-02	NUF1519-03
Date Sampled					6/8/2011	6/8/2011	6/10/2011	6/10/2011	6/7/2011	6/7/2011	6/7/2011	6/7/2011	6/7/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/7/2011	6/7/2011	6/7/2011
Volatile Organic Compounds (mg/kg) (SW846 8260B)																				
1,2,4-Trimethylbenzene	3.93	10,100	373	3.94	0.0095 PX,J	0.00273 PX,J	0.577 PX	ND	0.668	ND	ND	ND	ND	0.0073 PX,J	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.882	10,100	59.6	0.894	0.00723 PX,J	ND	0.211 PX	ND	0.251	ND	ND	ND	ND	0.00261 PX,J	ND	ND	ND	ND	ND	ND
2-Butanone	7.3	---	---	---	0.077 PX,J	ND	ND	ND	ND	ND	ND	ND	ND	0.127 PX,J	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	19.5	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11 PX,J	ND	ND	ND	ND	ND	ND
Acetone	4.2	807,000	115,000	10.6	0.141 PX,J	0.23 PX,J	0.347 PX,J	0.458 PX	6.33	0.242 PX	0.0581 J	ND	ND	2.06 PX,J	ND	0.164 PX,J	0.167 PX,J	ND	ND	ND
Benzene	0.0561	763	7.51	0.0655	ND	ND	0.0148 PX,J	ND	ND	ND	ND	ND	ND	~~0.0581~~ ND	ND	0.00281 PX,J	ND	ND	ND	ND
Carbon disulfide	6.26	95,600	172	7.9	0.0162 PX,J	ND	0.0766 PX,J	ND	ND	0.00543 PX	ND	ND	ND	ND	ND	0.00677 PX,J	ND	ND	ND	ND
Chlorobenzene	0.0766	17,600	416	2.05	ND	ND	0.396 PX,J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	39.9	8,660	11.8	0.36	ND	ND	0.017 PX,J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	10.5	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.0766	678	1.63	0.798	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	0.204	2,060	3.78	0.227	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00366 PX,J	ND	ND	ND	ND	ND	ND
Ethylbenzene	39.9	97,500	5,200	41.1	0.00335 PX,J	ND	1.86 PX	ND	0.603	ND	ND	ND	ND	ND	ND	0.00568 PX,J	ND	ND	ND	ND
Isopropylbenzene	10.5	91,100	267	27.9	0.00488 PX,L1,J	ND	0.184 PX,L1,J	ND	0.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	0.398	14,900	615	0.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	0.0176	3,700	77	0.0278	0.0167 PX,J	ND	0.0398 PX,J	ND	ND	ND	ND	ND	ND	0.0531 PX,J	ND	0.0197 PX,J	ND	ND	ND	ND
Naphthalene	0.325	119	443	0.327	0.00641 PX,J	ND	1.2 PX	ND	0.453	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	41.6	35,900	3,080	41.8	ND	ND	0.31 PX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	13	35,900	1,060	13.2	ND	ND	ND	ND	0.193	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	271	---	---	---	0.00567 PX,J	0.00618 PX,J	2.3 PX	ND	0.168	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	35.2	35,900	1,710	35.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	11.7	186,000	31,500	11.9	ND	ND	1.3 PX	ND	1.01	ND	ND	ND	ND	0.00358 PX,J	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.141	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	29.8	81,100	13,800	31.6	0.0041 PX,J	ND	2.21 PX	ND	0.575	ND	ND	0.0046 J	ND	0.00283 PX,J	ND	0.0149 PX,J	ND	0.00188 J	ND	ND
Trichlorofluoromethane	7.35	254,000	181	29.6	0.0122 PX,J	ND	0.0452 PX,J	ND	1.27	ND	ND	ND	ND	0.00524 PX,J	ND	ND	ND	ND	ND	ND
Xylenes, total	24.7	104,000	663	652	0.0205 PX,J	0.0074 PX,J	1.66 PX	ND	2.27	ND	ND	ND	ND	ND	ND	0.00854 PX,J	ND	ND	ND	ND
Semi-Volatile Organic Compounds (mg/kg) (SW846 8270C)																				
1-Methylnaphthalene	---	---	---	---	ND	ND	ND	ND	0.139	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	7.55	3,590	16,400	7.57	ND	ND	ND	0.0993	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/4-Methylphenol	---	---	---	---	ND	ND	1.46	1.71	5.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	174	30,700	1,720,000	175	ND	ND	0.118	ND	0.326	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	175	54,100	2,150,000	175	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	3,060	154,000	10,100,000	3,060	ND	ND	0.335	0.207	0.531	ND	ND	ND	ND	ND	ND	0.821 J	ND	ND	ND	ND
Benzo (a) anthracene	6.12	21	2,310,000	6.12	ND	ND	0.479	0.0937	0.523	ND	ND	0.105 J	ND	ND	ND	3.35 J	ND	ND	ND	ND
Benzo (a) pyrene	0.62	2	933,000	30.4	ND	ND	0.451	ND	0.331	ND	ND	0.0932 J	ND	ND	ND	3.34 J	ND	ND	ND	ND
Benzo (b) fluoranthene	6.19	21	909,000	11.5	ND	ND	ND	0.119	0.531	ND	ND	0.076 J	ND	ND	ND	3.48 J	ND	ND	ND	ND
Benzo (g,h,i) perylene	1,720	16,500	1,240,000,000	6,210	ND	ND	0.412	ND	0.228	ND	ND	0.0705 J	ND	ND	ND	2.57 J	ND	ND	ND	ND
Benzo (k) fluoranthene	62	211	19,900,000	118	ND	ND	0.783	ND	0.331	ND	ND	ND	ND	ND	ND	3.25 J	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	347	1,230	11,700,000,000	13,500	23.5 J	ND	4.9	0.472	10.5	ND	ND	ND	ND	95.1 J	ND	ND	ND	0.378 J	ND	ND
Butyl benzyl phthalate	12,200	123,000	2,830,000,000	13,300	ND	ND	0.818	ND	0.865	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	599	2,040	3,120,000	612	ND	ND	0.525	0.114	0.676	ND	ND	0.107 J	ND	ND	ND	4.01 J	ND	ND	ND	ND
Dibenz (a,h) anthracene	1	2	7,440,000	2	ND	ND	0.152	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	1,120	5,680,000	142,000,000	1,450	36.2 J	ND	2.87	ND	12.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	---	---	---	---	ND	ND	ND	ND	0.861	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	75.8	23,200	2,410,000	76.3	ND	ND	1.61	ND	1.84	ND	ND	ND	ND	23.5 J	ND	ND	ND	ND	ND	ND
Fluoranthene	2,280	21,900	191,000,000	2610	ND	ND	1.16	0.229	1.52	ND	ND	0.123 J	ND	ND	ND	8.39 J	ND	ND	ND	ND
Fluorene	211	21,300	6,060,000	211	ND	ND	0.175	ND	0.361	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-cd) pyrene	3.77	13	50,500,000	19.7	ND	ND	0.296	ND	0.193	ND	ND	ND	ND	ND	ND	2.3 J	ND	ND	ND	ND
Naphthalene	0.325	119	443	0.327	ND	ND	0.139	0.082	0.256	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	158	28,200	2,520,000	158	ND	ND	0.96	0.296	1.5	ND	ND	0.0753 J	ND	ND	ND	4.49 J	ND	ND	ND	ND
Phenol	25.6	128,000	407,000	35.5	ND	ND	ND	ND	2.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	1,500	16,400	197,000,000	1500	ND	ND	1.26	0.213	1.33	ND	ND	0.204 J	ND	ND	ND	6.9 J	ND	ND	ND	ND
Metals Analysis (mg/kg) (SW846 6010B/7471A)																				
Arsenic	3.89	15.9	---	7.23	ND	7.76 J	14.1	7.8	15.4 J	7.62	5.37 J	5.75 J	8.91 J	17.4 J	8.75 J	5.89 J	7.47 J	3.61 J	10.5 J	6.51 J
Barium	2,040	181,000	---	2,040	932 J	150 J	6,740	204	709	167	133 J	213 J	91.9 J	2,380 J	96.3 J	136 J	131 J	86.6 J	94.8 J	130 J
Cadmium	9.31	74.8	---	9.32	42.9 J	ND	137	ND	28.9 J,M7	ND	ND	ND	ND	31.3 J	ND	7.78 J	ND	ND	ND	ND
Chromium	74,600	472,000	---	4,470,000	249 J	19.5 J	401	22.8	213 J,MHA	25.9	19.3 J	12.6 J	20.7 J	375 J	17.4 J	75.8 J	17.9 J	12.1 J	20.7 J	19.3 J
Lead	3.74	660	---	3.77	3,270 J	14.2 J	2,920	12.3	2,000	78.4	13.5 J	362 J	13.8 J	3,580 J	27.6 J	515 J	12.6 J	75.1 J	9.4 J	8.13 J
Selenium	6.27	4,780	---	6.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	16.2	4,480	---	16.4	ND	ND	2.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	2.19	630	512	---	0.51 J	ND	0.91	ND	0.29	ND	ND	ND	ND	1.6 J	ND	0.2 J	ND	0.13 J	ND	ND
8015B)																				
Diesel	4,150	1,410,000	109,000	2,940,000,000	3350 J	42.8 J	2210	106	1,620	8.94	ND	ND	ND	4,950 J	6.54 J	602 J	ND	6.51 J	ND	ND
TPH - Oil Range	124,000	1,250,000	---	2,940,000,000	6970 J	98.4 J	4260	223	3,070	14.6	ND	5.7 J	ND	6,070 J	11.3 J	1,660 J	ND	25.2 J	ND	ND
PCBs (mg/kg) (SW846 8082A)																				
PCB-1242	0.0557	6.94	246	0.0558	ND	ND	2.21	ND	4.04	ND	ND	ND	ND	16.9 J	ND	ND	ND	0.082 J	ND	ND
PCB-1248	1.08	7.21	2,420	1.44	ND	ND	ND	ND	ND	0.0808	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	1.1	7.29	6,370	2.42	6.55 J	ND	0.911	ND	4.18	ND	ND	ND	ND	3.94 J	ND	0.466 J	ND	0.0492 J	ND	ND
PCB-1260	1.11	7.38	48,000	33.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
Only detections above reporting limit are shown
NS: Not Sampled
ND : Not Detected
TP: Test Pit
26 — Concentrations exceeding the MRBCA lowest default target levels
(yellow) — Concentrations exceeding MRBCA non-residential soil target levels
(circled) — Concentrations exceeding the soil concentration protective of domestic use of groundwater pathwa
MRBCA Table B-7 Tier I Risk-Based Target Levels For Non-residential land use soil Type 3 (Clayey)
Industrial Surficial Soils within depths of 0-3 ft. below ground surface are compared to the ingestion, inhalation (Vapor Emissions and p
Industrial Subsurface Soil within depths of 3 ft. and greater are compared to the indoor inhalation of vapor emissions.

J: Estimated value.
M7: The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
MHA: Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
PX: Sample for VOA analysis not received in preserved VOA vials or Encore or similar sampling device.
M8: The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
L1: Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery ~~was~~ above acceptance limits
L: Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.

~~Made changes~~

Table 4-2
Groundwater and Surface Water Sampling Results (Hits Only)
9th and Delmar
Festus, Missouri

Analyte	MRBCA Lowest Default Target Levels	Up-gradient Piezometer	REC 1 Piezometer East of Tunnel	REC 7 Piezometer Down Gradient of Rail Scale	Surface Water Down Gradient Beneath 9th Street Bridge
Client Sample ID:		**F-UG**	**F-01 A**	**F-07**	**S W D G**
Lab Sample ID:		**NUF1681-02**	**NUF1697-03**	**NUF1681-03**	**NUF1681-01**
Date Sampled:		**6/8/2011**	**6/8/2011**	**6/8/2011**	**6/8/2011**
Matrix:		**Groundwater**	**Groundwater**	**Groundwater**	**Surface Water**
Volatile Organic Compounds (µg/L) (SW846 8260B)					
1,2,4-Trimethylbenzene	7.06	ND	**15.1** J	ND	ND
1,3,5-Trimethylbenzene	7.05	ND	4.41 J	ND	ND
Acetone	2970	ND	ND	ND	ND
Ethylbenzene	700	ND	3.58 J	ND	ND
Methyl tert-Butyl Ether	128	ND	3.84 J	ND	ND
Naphthalene	1.09	ND	**6.26** J	ND	ND
n-Propylbenzene	115	ND	1.34 J	ND	ND
Toluene	1000	ND	1.54 J	ND	ND
Xylenes, total	10000	ND	25 J	ND	ND
Semi-Volatile Organic Compounds (µg/L) (SW846 8270D)					
2-Methylnaphthalene	11.7	NS	2.58 J	ND	ND
Metals Analysis (mg/L) (SW846 6010B)					
Barium	2	0.285 J	0.259 J	0.106 J	0.144 J
Cadmium	0.005	ND	ND	0.0017 J	ND
Chromium	0.1	ND	ND	ND	ND
Lead	0.015	**0.0456** J	ND	ND	0.0087 J
Mercury	0.0507	ND	ND	ND	ND
Total Petroleum Hydrocarbons (mg/L) (SW846 8015)					
TPH - Gasoline Range	18.1	ND	0.145 J	ND	ND
TPH - Diesel Range	34.3	NS	13.2 J	0.749 J	0.295 J
TPH - Oil Range	31.8	NS	6.3 J	0.408 J	0.249 J

Naphthalene = 3.90J for F-01A
ND for naphthalene for 3 other samples

Notes:
Only detections above reporting limit are shown
All MRBCA risk-based target levels are from Table B-1; lowest default target levels
NS = Not Sampled (insufficient volume)
ND = Not Detected
26: Concentrations exceeding MRBCA lowest default target levels
J: Sample is estimated. Result is less than reporting limit

Made Changes
7/12/11 JE

Table 4-3
Decommissioned Baler Sump Water and Oil Results (Hits Only)
9th and Delmar
Festus, Missouri

Analyte	MRBCA Lowest Default Target Levels	REC 1 (Liquid in Decommissioned Baler Sump)		REC 1 (Liquid in Decommissioned Baler Tunnel)	
Client Sample ID:		**D Baler**	**D Baler**	**Tunnel**	**Tunnel**
Lab Sample ID:		**NUF1697-01**	**NUF1697-05**	**NUF1697-02**	**NUF1697-04**
Date Sampled:		**6/8/2011**	**6/8/2011**	**6/8/2011**	**6/8/2011**
Matrix:		**Sump Water**	**Oil**	**Sump Water**	**Oil**
Volatile Organic Compounds (µg/L) (SW846 8260B)					
1,2,4-Trimethylbenzene	7.06	ND	NS	NS	ND
1,3,5-Trimethylbenzene	7.05	ND	NS	NS	ND
Acetone	2970	129 J	NS	NS	ND
Ethylbenzene	700	ND	NS	NS	ND
Methyl tert-Butyl Ether	128	ND	NS	NS	ND
Naphthalene	1.09	ND	NS	NS	ND
n-Propylbenzene	115	ND	NS	NS	ND
Toluene	1000	ND	NS	NS	ND
Xylenes, total	10000	ND	NS	NS	ND
Semi-Volatile Organic Compounds (µg/L) (SW846 8270D)					
2-Methylnaphthalene	11.7	ND	NS	NS	ND
Bis(2-ethylhexyl)phthalate	0.006	ND	NS	NS	**689,000 J**
Metals Analysis (mg/L) (SW846 6010B)					
Barium	2	0.257 J	NS	1.69 J	NS
Cadmium	0.005	0.0049 J	NS	**0.0196 J**	NS
Chromium	0.1	0.0068 J	NS	0.0164 J	NS
Lead	0.015	**0.524** J	NS	**1.88 J**	NS
Mercury	0.0507	0.00113 J	NS	0.00285 J	NS
Total Petroleum Hydrocarbons (mg/L) (SW846 8015)					
TPH - Gasoline Range	18.1	ND	NS	NS	NS
TPH - Diesel Range	34.3	44200 J SID	NS	NS	NS
TPH - Oil Range	31.8	88200 J	NS	NS	NS
PCBs (mg/kg) (SW846 8082A)					
PCB - 1242	0.0000593	NS	**133 J**	NS	NS

Notes:
Only detections above reporting limit are shown
All MRBCA risk-based target levels are from Table B-1; lowest default target levels
NS = Not Sampled (insufficient volume)
ND = Not Detected
26: Concentrations exceeding MRBCA lowest default target levels
J: Sample is estimated. Result is less than reporting limit
SID: Insufficient sample available for reanalysis.

Made Changes
7/12/11 SE

Table 4-4
Shapiro Brothers, Inc.
Investigation Derived Waste
TCLP Sampling Results
9th and Delmar Avenue
Festus, Missouri

Analyte	EPA Toxicity Limits	Investigative Derived Waste
Client Sample ID		**F-IDW**
Lab Sample ID		**NUF1686-07**
Date Sampled		**6/8/2011**
Matrix		**Soil Sample**
TCLP Metals (mg/L) USEPA Method 1311		
Arsenic	5	ND
Barium	100	2.13 J
Cadmium	1	0.079 J
Chromium	5	ND
Lead	5	3.43 J
Selenium	1	ND
Silver	5	ND
Mercury	0.2	ND

Notes:
* Soil sample was collected from a composite of all soil cuttings
ND = Not Detected
J = Estimated Value

Made Changes
7/12/11 SE

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUF1519
Client Project/Site: [none]
Client Project Description: Festus, Missouri

For:
PSC Industrial Outsourcing LP (3797)
210 West Sand Bank Rd.
Columbia, IL 62236

Attn: Al Becker

Madonna Myers

Authorized for release by:
06/16/2011 12:12:52 PM

Madonna Myers
Project Manager
madonna.myers@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Sample Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1519

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUF1519-01	F-Ug-(1-3)	Soil	06/07/11 08:50	06/09/11 08:55
NUF1519-02	F-Ug-(6-7)	Soil	06/07/11 08:20	06/09/11 08:55
NUF1519-03	F-Ug-(13-14)	Soil	06/07/11 08:45	06/09/11 08:55
NUF1519-04	F-07-(1-3)	Soil	06/07/11 11:45	06/09/11 08:55
NUF1519-05	F-07-(5-7)	Soil	06/07/11 11:55	06/09/11 08:55
NUF1519-06	F-07-(9-10)	Soil	06/07/11 12:15	06/09/11 08:55
NUF1519-07	F-09-(2-3)	Soil	06/07/11 10:35	06/09/11 08:55
NUF1519-08	F-03-(7-9)	Soil	06/07/11 13:15	06/09/11 08:55
NUF1519-09	F-03-(9.5-11)	Soil	06/07/11 13:30	06/09/11 08:55

Job ID: NUF1519

Laboratory: TestAmerica Nashville

Narrative

Samples for VOA analysis were not received in preserved VOA vials or Encore or similar sampling device.

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
PX	Sample for VOA analysis not received in preserved VOA vials or Encore or similar sampling device.

GCMS Semivolatiles

Qualifier	Qualifier Description
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
R2	The RPD exceeded the acceptance limit.

Pesticides

Qualifier	Qualifier Description
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Metals

Qualifier	Qualifier Description
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
R3	The RPD exceeded the acceptance limit due to sample matrix effects.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client Sample ID: F-Ug-(1-3) Lab Sample ID: NUF1519-01

Date Collected: 06/07/11 08:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 78.2**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0453		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Benzene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Bromobenzene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Bromochloromethane	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Bromodichloromethane	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Bromoform	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Bromomethane	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,2-Dibromo-3-chloropropane	ND		0.00453		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
2-Butanone	ND		0.0453		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
sec-Butylbenzene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
n-Butylbenzene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
tert-Butylbenzene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Carbon disulfide	ND		0.00453		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Carbon Tetrachloride	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Chlorobenzene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Chlorodibromomethane	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Chloroethane	ND		0.00453		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Chloroform	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Chloromethane	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
2-Chlorotoluene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
4-Chlorotoluene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,2-Dibromoethane (EDB)	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Dibromomethane	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,4-Dichlorobenzene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,3-Dichlorobenzene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,2-Dichlorobenzene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Dichlorodifluoromethane	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,1-Dichloroethane	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,2-Dichloroethane	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
cis-1,2-Dichloroethene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,1-Dichloroethene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
trans-1,2-Dichloroethene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,3-Dichloropropane	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,2-Dichloropropane	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
2,2-Dichloropropane	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
cis-1,3-Dichloropropene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
trans-1,3-Dichloropropene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,1-Dichloropropene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Ethylbenzene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Hexachlorobutadiene	ND		0.00453		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
2-Hexanone	ND		0.0453		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Isopropylbenzene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
p-Isopropyltoluene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Methyl tert-Butyl Ether	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Methylene Chloride	ND		0.00906		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
4-Methyl-2-pentanone	ND		0.0453		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Naphthalene	ND		0.00453		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
n-Propylbenzene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Styrene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,1,1,2-Tetrachloroethane	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00

Client Sample ID: F-Ug-(1-3) Lab Sample ID: NUF1519-01

Date Collected: 06/07/11 08:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 78.2**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Tetrachloroethene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Toluene	**0.00188**		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,2,3-Trichlorobenzene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,2,4-Trichlorobenzene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,1,2-Trichloroethane	ND		0.00453		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,1,1-Trichloroethane	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Trichloroethene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Trichlorofluoromethane	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,2,3-Trichloropropane	ND	L	0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,3,5-Trimethylbenzene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
1,2,4-Trimethylbenzene	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Vinyl chloride	ND		0.00181		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00
Xylenes, total	ND		0.00453		mg/kg		06/10/11 13:28	06/10/11 16:53	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*114*		*67 - 138*	*06/10/11 13:28*	*06/10/11 16:53*	*1.00*
Dibromofluoromethane	*102*		*75 - 125*	*06/10/11 13:28*	*06/10/11 16:53*	*1.00*
Toluene-d8	*99*		*76 - 129*	*06/10/11 13:28*	*06/10/11 16:53*	*1.00*
4-Bromofluorobenzene	*108*		*67 - 147*	*06/10/11 13:28*	*06/10/11 16:53*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Acenaphthylene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Anthracene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Benzo (a) anthracene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Benzo (a) pyrene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Benzo (b) fluoranthene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Benzo (g,h,i) perylene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Benzo (k) fluoranthene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
4-Bromophenyl phenyl ether	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Butyl benzyl phthalate	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Carbazole	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
4-Chloro-3-methylphenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
4-Chloroaniline	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Bis(2-chloroethoxy)methane	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Bis(2-chloroethyl)ether	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Bis(2-chloroisopropyl)ether	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
2-Chloronaphthalene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
2-Chlorophenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
4-Chlorophenyl phenyl ether	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Chrysene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Dibenz (a,h) anthracene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Dibenzofuran	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Di-n-butyl phthalate	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
1,4-Dichlorobenzene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
1,2-Dichlorobenzene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
1,3-Dichlorobenzene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
3,3-Dichlorobenzidine	ND		0.663		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
2,4-Dichlorophenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00

Client Sample ID: F-Ug-(1-3) Lab Sample ID: NUF1519-01

Date Collected: 06/07/11 08:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 78.2**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
2,4-Dimethylphenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Dimethyl phthalate	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
4,6-Dinitro-2-methylphenol	ND		0.828		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
2,4-Dinitrophenol	ND		0.828		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
2,6-Dinitrotoluene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
2,4-Dinitrotoluene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Di-n-octyl phthalate	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Bis(2-ethylhexyl)phthalate	**0.378**		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Fluoranthene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Fluorene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Hexachlorobenzene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Hexachlorobutadiene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Hexachlorocyclopentadiene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Hexachloroethane	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Isophorone	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
2-Methylnaphthalene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
2-Methylphenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
3/4-Methylphenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Naphthalene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
3-Nitroaniline	ND		0.828		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
2-Nitroaniline	ND		0.828		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
4-Nitroaniline	ND		0.828		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Nitrobenzene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
4-Nitrophenol	ND		0.828		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
2-Nitrophenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
N-Nitrosodiphenylamine	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
N-Nitrosodi-n-propylamine	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Pentachlorophenol	ND		0.828		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Phenanthrene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Phenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
Pyrene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
1,2,4-Trichlorobenzene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
1-Methylnaphthalene	ND		0.0666		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
2,4,6-Trichlorophenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00
2,4,5-Trichlorophenol	ND		0.828		mg/kg		06/11/11 08:20	06/14/11 02:59	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*72*		*18 - 120*	*06/11/11 08:20*	*06/14/11 02:59*	*1.00*
2,4,6-Tribromophenol	*36*		*19 - 120*	*06/11/11 08:20*	*06/14/11 02:59*	*1.00*
Phenol-d5	*51*		*18 - 120*	*06/11/11 08:20*	*06/14/11 02:59*	*1.00*
2-Fluorobiphenyl	*56*		*14 - 120*	*06/11/11 08:20*	*06/14/11 02:59*	*1.00*
2-Fluorophenol	*40*		*17 - 120*	*06/11/11 08:20*	*06/14/11 02:59*	*1.00*
Nitrobenzene-d5	*50*		*17 - 120*	*06/11/11 08:20*	*06/14/11 02:59*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**6.51**		3.94		mg/kg		06/13/11 09:25	06/14/11 01:31	1.00
TPH - Oil Range	**25.2**		3.94		mg/kg		06/13/11 09:25	06/14/11 01:31	1.00

Client Sample ID: F-Ug-(1-3) Lab Sample ID: NUF1519-01

Date Collected: 06/07/11 08:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 78.2**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*53 - 140*	*06/13/11 09:25*	*06/14/11 01:31*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0330		mg/kg		06/11/11 07:20	06/13/11 23:46	1.00
PCB-1221	ND		0.0330		mg/kg		06/11/11 07:20	06/13/11 23:46	1.00
PCB-1232	ND		0.0330		mg/kg		06/11/11 07:20	06/13/11 23:46	1.00
PCB-1242	**0.0820**		0.0330		mg/kg		06/11/11 07:20	06/13/11 23:46	1.00
PCB-1248	ND		0.0330		mg/kg		06/11/11 07:20	06/13/11 23:46	1.00
PCB-1254	**0.0492**		0.0330		mg/kg		06/11/11 07:20	06/13/11 23:46	1.00
PCB-1260	ND		0.0330		mg/kg		06/11/11 07:20	06/13/11 23:46	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*88*		*19 - 147*	*06/11/11 07:20*	*06/13/11 23:46*	*1.00*
Decachlorobiphenyl	*98*		*20 - 150*	*06/11/11 07:20*	*06/13/11 23:46*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.61**		1.00		mg/kg		06/10/11 10:06	06/10/11 20:38	1.00
Barium	**86.6**		2.00		mg/kg		06/10/11 10:06	06/10/11 20:38	1.00
Cadmium	ND		1.00		mg/kg		06/10/11 10:06	06/10/11 20:38	1.00
Chromium	**12.1**		1.00		mg/kg		06/10/11 10:06	06/10/11 20:38	1.00
Lead	**75.1**		1.00		mg/kg		06/10/11 10:06	06/10/11 20:38	1.00
Selenium	ND		2.00		mg/kg		06/10/11 10:06	06/10/11 20:38	1.00
Silver	ND		1.00		mg/kg		06/10/11 10:06	06/10/11 20:38	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.10		mg/kg		06/14/11 09:30	06/15/11 10:40	1.0

Client Sample ID: F-Ug-(6-7) Lab Sample ID: NUF1519-02

Date Collected: 06/07/11 08:20 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 74.4**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0453		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Benzene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Bromobenzene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Bromochloromethane	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Bromodichloromethane	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Bromoform	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Bromomethane	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,2-Dibromo-3-chloropropane	ND		0.00453		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
2-Butanone	ND		0.0453		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
sec-Butylbenzene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
n-Butylbenzene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
tert-Butylbenzene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Carbon disulfide	ND		0.00453		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Carbon Tetrachloride	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Chlorobenzene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Chlorodibromomethane	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Chloroethane	ND		0.00453		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Chloroform	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Chloromethane	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
2-Chlorotoluene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
4-Chlorotoluene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,2-Dibromoethane (EDB)	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Dibromomethane	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,4-Dichlorobenzene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,3-Dichlorobenzene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,2-Dichlorobenzene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Dichlorodifluoromethane	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,1-Dichloroethane	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,2-Dichloroethane	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
cis-1,2-Dichloroethene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,1-Dichloroethene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
trans-1,2-Dichloroethene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,3-Dichloropropane	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,2-Dichloropropane	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
2,2-Dichloropropane	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
cis-1,3-Dichloropropene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
trans-1,3-Dichloropropene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,1-Dichloropropene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Ethylbenzene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Hexachlorobutadiene	ND		0.00453		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
2-Hexanone	ND		0.0453		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Isopropylbenzene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
p-Isopropyltoluene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Methyl tert-Butyl Ether	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Methylene Chloride	ND		0.00906		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
4-Methyl-2-pentanone	ND		0.0453		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Naphthalene	ND		0.00453		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
n-Propylbenzene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Styrene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,1,1,2-Tetrachloroethane	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00

Client Sample ID: F-Ug-(6-7) Lab Sample ID: NUF1519-02

Date Collected: 06/07/11 08:20 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 74.4**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Tetrachloroethene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Toluene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,2,3-Trichlorobenzene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,2,4-Trichlorobenzene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,1,2-Trichloroethane	ND		0.00453		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,1,1-Trichloroethane	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Trichloroethene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Trichlorofluoromethane	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,2,3-Trichloropropane	ND	L	0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,3,5-Trimethylbenzene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
1,2,4-Trimethylbenzene	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Vinyl chloride	ND		0.00181		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00
Xylenes, total	ND		0.00453		mg/kg		06/10/11 13:29	06/10/11 17:24	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*111*		*67 - 138*	*06/10/11 13:29*	*06/10/11 17:24*	*1.00*
Dibromofluoromethane	*100*		*75 - 125*	*06/10/11 13:29*	*06/10/11 17:24*	*1.00*
Toluene-d8	*102*		*76 - 129*	*06/10/11 13:29*	*06/10/11 17:24*	*1.00*
4-Bromofluorobenzene	*103*		*67 - 147*	*06/10/11 13:29*	*06/10/11 17:24*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Acenaphthylene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Anthracene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Benzo (a) anthracene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Benzo (a) pyrene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Benzo (b) fluoranthene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Benzo (g,h,i) perylene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Benzo (k) fluoranthene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
4-Bromophenyl phenyl ether	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Butyl benzyl phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Carbazole	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
4-Chloro-3-methylphenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
4-Chloroaniline	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Bis(2-chloroethoxy)methane	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Bis(2-chloroethyl)ether	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Bis(2-chloroisopropyl)ether	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
2-Chloronaphthalene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
2-Chlorophenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
4-Chlorophenyl phenyl ether	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Chrysene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Dibenz (a,h) anthracene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Dibenzofuran	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Di-n-butyl phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
1,4-Dichlorobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
1,2-Dichlorobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
1,3-Dichlorobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
3,3-Dichlorobenzidine	ND		0.659		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
2,4-Dichlorophenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00

Client Sample ID: F-Ug-(6-7) Lab Sample ID: NUF1519-02

Date Collected: 06/07/11 08:20 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 74.4**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
2,4-Dimethylphenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Dimethyl phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
4,6-Dinitro-2-methylphenol	ND		0.823		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
2,4-Dinitrophenol	ND		0.823		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
2,6-Dinitrotoluene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
2,4-Dinitrotoluene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Di-n-octyl phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Bis(2-ethylhexyl)phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Fluoranthene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Fluorene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Hexachlorobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Hexachlorobutadiene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Hexachlorocyclopentadiene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Hexachloroethane	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Isophorone	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
2-Methylnaphthalene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
2-Methylphenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
3/4-Methylphenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Naphthalene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
3-Nitroaniline	ND		0.823		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
2-Nitroaniline	ND		0.823		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
4-Nitroaniline	ND		0.823		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Nitrobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
4-Nitrophenol	ND		0.823		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
2-Nitrophenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
N-Nitrosodiphenylamine	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
N-Nitrosodi-n-propylamine	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Pentachlorophenol	ND		0.823		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Phenanthrene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Phenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
Pyrene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
1,2,4-Trichlorobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
1-Methylnaphthalene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
2,4,6-Trichlorophenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00
2,4,5-Trichlorophenol	ND		0.823		mg/kg		06/11/11 08:20	06/14/11 03:20	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*82*		*18 - 120*	*06/11/11 08:20*	*06/14/11 03:20*	*1.00*
2,4,6-Tribromophenol	*61*		*19 - 120*	*06/11/11 08:20*	*06/14/11 03:20*	*1.00*
Phenol-d5	*68*		*18 - 120*	*06/11/11 08:20*	*06/14/11 03:20*	*1.00*
2-Fluorobiphenyl	*64*		*14 - 120*	*06/11/11 08:20*	*06/14/11 03:20*	*1.00*
2-Fluorophenol	*69*		*17 - 120*	*06/11/11 08:20*	*06/14/11 03:20*	*1.00*
Nitrobenzene-d5	*54*		*17 - 120*	*06/11/11 08:20*	*06/14/11 03:20*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		3.97		mg/kg		06/13/11 09:25	06/13/11 23:37	1.00
TPH - Oil Range	ND		3.97		mg/kg		06/13/11 09:25	06/13/11 23:37	1.00

Client Sample ID: F-Ug-(6-7) Lab Sample ID: NUF1519-02

Date Collected: 06/07/11 08:20 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 74.4**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*53 - 140*	*06/13/11 09:25*	*06/13/11 23:37*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0330		mg/kg		06/11/11 07:20	06/14/11 00:07	1.00
PCB-1221	ND		0.0330		mg/kg		06/11/11 07:20	06/14/11 00:07	1.00
PCB-1232	ND		0.0330		mg/kg		06/11/11 07:20	06/14/11 00:07	1.00
PCB-1242	ND		0.0330		mg/kg		06/11/11 07:20	06/14/11 00:07	1.00
PCB-1248	ND		0.0330		mg/kg		06/11/11 07:20	06/14/11 00:07	1.00
PCB-1254	ND		0.0330		mg/kg		06/11/11 07:20	06/14/11 00:07	1.00
PCB-1260	ND		0.0330		mg/kg		06/11/11 07:20	06/14/11 00:07	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*90*		*19 - 147*	*06/11/11 07:20*	*06/14/11 00:07*	*1.00*
Decachlorobiphenyl	*102*		*20 - 150*	*06/11/11 07:20*	*06/14/11 00:07*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**10.5**		0.971		mg/kg		06/10/11 10:06	06/10/11 20:41	1.00
Barium	**94.8**		1.94		mg/kg		06/10/11 10:06	06/10/11 20:41	1.00
Cadmium	ND		0.971		mg/kg		06/10/11 10:06	06/10/11 20:41	1.00
Chromium	**20.7**		0.971		mg/kg		06/10/11 10:06	06/10/11 20:41	1.00
Lead	**9.40**		0.971		mg/kg		06/10/11 10:06	06/10/11 20:41	1.00
Selenium	ND		1.94		mg/kg		06/10/11 10:06	06/10/11 20:41	1.00
Silver	ND		0.971		mg/kg		06/10/11 10:06	06/10/11 20:41	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.10		mg/kg		06/14/11 09:30	06/15/11 10:43	1.0

Client Sample ID: F-Ug-(13-14) Lab Sample ID: NUF1519-03

Date Collected: 06/07/11 08:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 81.9**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0437		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Benzene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Bromobenzene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Bromochloromethane	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Bromodichloromethane	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Bromoform	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Bromomethane	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,2-Dibromo-3-chloropropane	ND		0.00437		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
2-Butanone	ND		0.0437		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
sec-Butylbenzene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
n-Butylbenzene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
tert-Butylbenzene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Carbon disulfide	ND		0.00437		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Carbon Tetrachloride	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Chlorobenzene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Chlorodibromomethane	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Chloroethane	ND		0.00437		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Chloroform	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Chloromethane	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
2-Chlorotoluene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
4-Chlorotoluene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,2-Dibromoethane (EDB)	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Dibromomethane	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,4-Dichlorobenzene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,3-Dichlorobenzene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,2-Dichlorobenzene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Dichlorodifluoromethane	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,1-Dichloroethane	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,2-Dichloroethane	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
cis-1,2-Dichloroethene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,1-Dichloroethene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
trans-1,2-Dichloroethene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,3-Dichloropropane	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,2-Dichloropropane	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
2,2-Dichloropropane	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
cis-1,3-Dichloropropene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
trans-1,3-Dichloropropene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,1-Dichloropropene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Ethylbenzene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Hexachlorobutadiene	ND		0.00437		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
2-Hexanone	ND		0.0437		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Isopropylbenzene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
p-Isopropyltoluene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Methyl tert-Butyl Ether	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Methylene Chloride	ND		0.00874		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
4-Methyl-2-pentanone	ND		0.0437		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Naphthalene	ND		0.00437		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
n-Propylbenzene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Styrene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,1,1,2-Tetrachloroethane	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00

Client Sample ID: F-Ug-(13-14) Lab Sample ID: NUF1519-03

Date Collected: 06/07/11 08:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 81.9**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Tetrachloroethene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Toluene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,2,3-Trichlorobenzene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,2,4-Trichlorobenzene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,1,2-Trichloroethane	ND		0.00437		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,1,1-Trichloroethane	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Trichloroethene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Trichlorofluoromethane	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,2,3-Trichloropropane	ND	L	0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,3,5-Trimethylbenzene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
1,2,4-Trimethylbenzene	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Vinyl chloride	ND		0.00175		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00
Xylenes, total	ND		0.00437		mg/kg		06/10/11 13:33	06/10/11 17:54	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*116*		*67 - 138*	*06/10/11 13:33*	*06/10/11 17:54*	*1.00*
Dibromofluoromethane	*103*		*75 - 125*	*06/10/11 13:33*	*06/10/11 17:54*	*1.00*
Toluene-d8	*101*		*76 - 129*	*06/10/11 13:33*	*06/10/11 17:54*	*1.00*
4-Bromofluorobenzene	*105*		*67 - 147*	*06/10/11 13:33*	*06/10/11 17:54*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Acenaphthylene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Anthracene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Benzo (a) anthracene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Benzo (a) pyrene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Benzo (b) fluoranthene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Benzo (g,h,i) perylene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Benzo (k) fluoranthene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
4-Bromophenyl phenyl ether	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Butyl benzyl phthalate	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Carbazole	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
4-Chloro-3-methylphenol	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
4-Chloroaniline	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Bis(2-chloroethoxy)methane	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Bis(2-chloroethyl)ether	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Bis(2-chloroisopropyl)ether	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
2-Chloronaphthalene	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
2-Chlorophenol	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
4-Chlorophenyl phenyl ether	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Chrysene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Dibenz (a,h) anthracene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Dibenzofuran	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Di-n-butyl phthalate	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
1,4-Dichlorobenzene	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
1,2-Dichlorobenzene	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
1,3-Dichlorobenzene	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
3,3-Dichlorobenzidine	ND		0.653		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
2,4-Dichlorophenol	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00

Client Sample ID: F-Ug-(13-14) Lab Sample ID: NUF1519-03

Date Collected: 06/07/11 08:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 81.9**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
2,4-Dimethylphenol	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Dimethyl phthalate	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
4,6-Dinitro-2-methylphenol	ND		0.816		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
2,4-Dinitrophenol	ND		0.816		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
2,6-Dinitrotoluene	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
2,4-Dinitrotoluene	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Di-n-octyl phthalate	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Bis(2-ethylhexyl)phthalate	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Fluoranthene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Fluorene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Hexachlorobenzene	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Hexachlorobutadiene	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Hexachlorocyclopentadiene	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Hexachloroethane	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Isophorone	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
2-Methylnaphthalene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
2-Methylphenol	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
3/4-Methylphenol	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Naphthalene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
3-Nitroaniline	ND		0.816		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
2-Nitroaniline	ND		0.816		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
4-Nitroaniline	ND		0.816		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Nitrobenzene	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
4-Nitrophenol	ND		0.816		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
2-Nitrophenol	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
N-Nitrosodiphenylamine	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
N-Nitrosodi-n-propylamine	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Pentachlorophenol	ND		0.816		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Phenanthrene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Phenol	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
Pyrene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
1,2,4-Trichlorobenzene	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
1-Methylnaphthalene	ND		0.0656		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
2,4,6-Trichlorophenol	ND		0.326		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00
2,4,5-Trichlorophenol	ND		0.816		mg/kg		06/11/11 08:20	06/14/11 03:40	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*84*		*18 - 120*	*06/11/11 08:20*	*06/14/11 03:40*	*1.00*
2,4,6-Tribromophenol	*60*		*19 - 120*	*06/11/11 08:20*	*06/14/11 03:40*	*1.00*
Phenol-d5	*72*		*18 - 120*	*06/11/11 08:20*	*06/14/11 03:40*	*1.00*
2-Fluorobiphenyl	*65*		*14 - 120*	*06/11/11 08:20*	*06/14/11 03:40*	*1.00*
2-Fluorophenol	*73*		*17 - 120*	*06/11/11 08:20*	*06/14/11 03:40*	*1.00*
Nitrobenzene-d5	*56*		*17 - 120*	*06/11/11 08:20*	*06/14/11 03:40*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		3.85		mg/kg		06/13/11 09:25	06/13/11 23:54	1.00
TPH - Oil Range	ND		3.85		mg/kg		06/13/11 09:25	06/13/11 23:54	1.00

Client Sample ID: F-Ug-(13-14) Lab Sample ID: NUF1519-03

Date Collected: 06/07/11 08:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 81.9**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*53 - 140*	*06/13/11 09:25*	*06/13/11 23:54*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0329		mg/kg		06/11/11 07:20	06/14/11 00:29	1.00
PCB-1221	ND		0.0329		mg/kg		06/11/11 07:20	06/14/11 00:29	1.00
PCB-1232	ND		0.0329		mg/kg		06/11/11 07:20	06/14/11 00:29	1.00
PCB-1242	ND		0.0329		mg/kg		06/11/11 07:20	06/14/11 00:29	1.00
PCB-1248	ND		0.0329		mg/kg		06/11/11 07:20	06/14/11 00:29	1.00
PCB-1254	ND		0.0329		mg/kg		06/11/11 07:20	06/14/11 00:29	1.00
PCB-1260	ND		0.0329		mg/kg		06/11/11 07:20	06/14/11 00:29	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*100*		*19 - 147*	*06/11/11 07:20*	*06/14/11 00:29*	*1.00*
Decachlorobiphenyl	*110*		*20 - 150*	*06/11/11 07:20*	*06/14/11 00:29*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.51**		0.975		mg/kg		06/10/11 10:06	06/10/11 20:44	1.00
Barium	**130**		1.95		mg/kg		06/10/11 10:06	06/10/11 20:44	1.00
Cadmium	ND		0.975		mg/kg		06/10/11 10:06	06/10/11 20:44	1.00
Chromium	**19.3**		0.975		mg/kg		06/10/11 10:06	06/10/11 20:44	1.00
Lead	**8.13**		0.975		mg/kg		06/10/11 10:06	06/10/11 20:44	1.00
Selenium	ND		1.95		mg/kg		06/10/11 10:06	06/10/11 20:44	1.00
Silver	ND		0.975		mg/kg		06/10/11 10:06	06/10/11 20:44	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.096		mg/kg		06/14/11 09:30	06/15/11 10:51	1.0

Client Sample ID: F-07-(1-3) Lab Sample ID: NUF1519-04

Date Collected: 06/07/11 11:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 79.3**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0462		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Benzene	**0.00242**		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Bromobenzene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Bromochloromethane	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Bromodichloromethane	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Bromoform	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Bromomethane	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,2-Dibromo-3-chloropropane	ND		0.00462		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
2-Butanone	ND		0.0462		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
sec-Butylbenzene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
n-Butylbenzene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
tert-Butylbenzene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Carbon disulfide	ND		0.00462		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Carbon Tetrachloride	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Chlorobenzene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Chlorodibromomethane	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Chloroethane	ND		0.00462		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Chloroform	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Chloromethane	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
2-Chlorotoluene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
4-Chlorotoluene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,2-Dibromoethane (EDB)	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Dibromomethane	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,4-Dichlorobenzene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,3-Dichlorobenzene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,2-Dichlorobenzene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Dichlorodifluoromethane	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,1-Dichloroethane	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,2-Dichloroethane	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
cis-1,2-Dichloroethene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,1-Dichloroethene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
trans-1,2-Dichloroethene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,3-Dichloropropane	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,2-Dichloropropane	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
2,2-Dichloropropane	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
cis-1,3-Dichloropropene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
trans-1,3-Dichloropropene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,1-Dichloropropene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Ethylbenzene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Hexachlorobutadiene	ND		0.00462		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
2-Hexanone	ND		0.0462		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Isopropylbenzene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
p-Isopropyltoluene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Methyl tert-Butyl Ether	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Methylene Chloride	ND		0.00924		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
4-Methyl-2-pentanone	ND		0.0462		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Naphthalene	ND		0.00462		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
n-Propylbenzene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Styrene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,1,1,2-Tetrachloroethane	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00

Client Sample ID: F-07-(1-3) Lab Sample ID: NUF1519-04

Date Collected: 06/07/11 11:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 79.3**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Tetrachloroethene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Toluene	**0.00318**		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,2,3-Trichlorobenzene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,2,4-Trichlorobenzene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,1,2-Trichloroethane	ND		0.00462		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,1,1-Trichloroethane	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Trichloroethene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Trichlorofluoromethane	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,2,3-Trichloropropane	ND	L	0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,3,5-Trimethylbenzene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
1,2,4-Trimethylbenzene	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Vinyl chloride	ND		0.00185		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00
Xylenes, total	ND		0.00462		mg/kg		06/10/11 13:35	06/10/11 18:25	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*118*		*67 - 138*	*06/10/11 13:35*	*06/10/11 18:25*	*1.00*
Dibromofluoromethane	*106*		*75 - 125*	*06/10/11 13:35*	*06/10/11 18:25*	*1.00*
Toluene-d8	*109*		*76 - 129*	*06/10/11 13:35*	*06/10/11 18:25*	*1.00*
4-Bromofluorobenzene	*123*		*67 - 147*	*06/10/11 13:35*	*06/10/11 18:25*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Acenaphthylene	ND		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Anthracene	ND		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Benzo (a) anthracene	**0.106**		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Benzo (a) pyrene	**0.150**		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Benzo (b) fluoranthene	**0.189**		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Benzo (g,h,i) perylene	**0.124**		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Benzo (k) fluoranthene	**0.162**		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
4-Bromophenyl phenyl ether	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Butyl benzyl phthalate	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Carbazole	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
4-Chloro-3-methylphenol	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
4-Chloroaniline	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Bis(2-chloroethoxy)methane	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Bis(2-chloroethyl)ether	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Bis(2-chloroisopropyl)ether	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
2-Chloronaphthalene	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
2-Chlorophenol	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
4-Chlorophenyl phenyl ether	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Chrysene	**0.148**		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Dibenz (a,h) anthracene	ND		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Dibenzofuran	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Di-n-butyl phthalate	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
1,4-Dichlorobenzene	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
1,2-Dichlorobenzene	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
1,3-Dichlorobenzene	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
3,3-Dichlorobenzidine	ND		0.658		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
2,4-Dichlorophenol	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00

Client Sample ID: F-07-(1-3) Lab Sample ID: NUF1519-04

Date Collected: 06/07/11 11:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 79.3**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
2,4-Dimethylphenol	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Dimethyl phthalate	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
4,6-Dinitro-2-methylphenol	ND		0.821		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
2,4-Dinitrophenol	ND		0.821		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
2,6-Dinitrotoluene	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
2,4-Dinitrotoluene	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Di-n-octyl phthalate	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Bis(2-ethylhexyl)phthalate	**0.752**		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Fluoranthene	**0.136**		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Fluorene	ND		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Hexachlorobenzene	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Hexachlorobutadiene	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Hexachlorocyclopentadiene	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Hexachloroethane	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Indeno (1,2,3-cd) pyrene	**0.110**		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Isophorone	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
2-Methylnaphthalene	ND		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
2-Methylphenol	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
3/4-Methylphenol	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Naphthalene	ND		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
3-Nitroaniline	ND		0.821		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
2-Nitroaniline	ND		0.821		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
4-Nitroaniline	ND		0.821		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Nitrobenzene	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
4-Nitrophenol	ND		0.821		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
2-Nitrophenol	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
N-Nitrosodiphenylamine	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
N-Nitrosodi-n-propylamine	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Pentachlorophenol	ND		0.821		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Phenanthrene	**0.0746**		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Phenol	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
Pyrene	**0.154**		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
1,2,4-Trichlorobenzene	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
1-Methylnaphthalene	ND		0.0661		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
2,4,6-Trichlorophenol	ND		0.328		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00
2,4,5-Trichlorophenol	ND		0.821		mg/kg		06/11/11 08:20	06/14/11 04:01	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*78*		*18 - 120*	*06/11/11 08:20*	*06/14/11 04:01*	*1.00*
2,4,6-Tribromophenol	*30*		*19 - 120*	*06/11/11 08:20*	*06/14/11 04:01*	*1.00*
Phenol-d5	*49*		*18 - 120*	*06/11/11 08:20*	*06/14/11 04:01*	*1.00*
2-Fluorobiphenyl	*62*		*14 - 120*	*06/11/11 08:20*	*06/14/11 04:01*	*1.00*
2-Fluorophenol	*36*		*17 - 120*	*06/11/11 08:20*	*06/14/11 04:01*	*1.00*
Nitrobenzene-d5	*57*		*17 - 120*	*06/11/11 08:20*	*06/14/11 04:01*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**30.7**		4.00		mg/kg		06/13/11 09:25	06/14/11 01:47	1.00
TPH - Oil Range	**60.4**		4.00		mg/kg		06/13/11 09:25	06/14/11 01:47	1.00

Client Sample ID: F-07-(1-3) Lab Sample ID: NUF1519-04

Date Collected: 06/07/11 11:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 79.3**

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	73		53 - 140	06/13/11 09:25	06/14/11 01:47	1.00

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.64		mg/kg		06/11/11 07:20	06/15/11 05:54	50.0
PCB-1221	ND		1.64		mg/kg		06/11/11 07:20	06/15/11 05:54	50.0
PCB-1232	ND		1.64		mg/kg		06/11/11 07:20	06/15/11 05:54	50.0
PCB-1242	ND		1.64		mg/kg		06/11/11 07:20	06/15/11 05:54	50.0
PCB-1248	ND		1.64		mg/kg		06/11/11 07:20	06/15/11 05:54	50.0
PCB-1254	**28.5**		1.64		mg/kg		06/11/11 07:20	06/15/11 05:54	50.0
PCB-1260	ND		1.64		mg/kg		06/11/11 07:20	06/15/11 05:54	50.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-meta-xylene		Z3	19 - 147	06/11/11 07:20	06/15/11 05:54	50.0
Decachlorobiphenyl		Z3	20 - 150	06/11/11 07:20	06/15/11 05:54	50.0

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.97**		0.958		mg/kg		06/10/11 10:06	06/10/11 20:47	1.00
Barium	**270**		1.92		mg/kg		06/10/11 10:06	06/10/11 20:47	1.00
Cadmium	**4.98**		0.958		mg/kg		06/10/11 10:06	06/10/11 20:47	1.00
Chromium	**24.5**		0.958		mg/kg		06/10/11 10:06	06/10/11 20:47	1.00
Lead	**822**		0.958		mg/kg		06/10/11 10:06	06/10/11 20:47	1.00
Selenium	ND		1.92		mg/kg		06/10/11 10:06	06/10/11 20:47	1.00
Silver	ND		0.958		mg/kg		06/10/11 10:06	06/10/11 20:47	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.55**		0.096		mg/kg		06/14/11 09:30	06/15/11 10:59	1.0

Client Sample ID: F-07-(5-7) Lab Sample ID: NUF1519-05

Date Collected: 06/07/11 11:55 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 80.3**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0493		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Benzene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Bromobenzene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Bromochloromethane	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Bromodichloromethane	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Bromoform	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Bromomethane	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,2-Dibromo-3-chloropropane	ND		0.00493		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
2-Butanone	ND		0.0493		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
sec-Butylbenzene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
n-Butylbenzene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
tert-Butylbenzene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Carbon disulfide	ND		0.00493		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Carbon Tetrachloride	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Chlorobenzene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Chlorodibromomethane	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Chloroethane	ND		0.00493		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Chloroform	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Chloromethane	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
2-Chlorotoluene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
4-Chlorotoluene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,2-Dibromoethane (EDB)	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Dibromomethane	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,4-Dichlorobenzene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,3-Dichlorobenzene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,2-Dichlorobenzene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Dichlorodifluoromethane	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,1-Dichloroethane	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,2-Dichloroethane	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
cis-1,2-Dichloroethene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,1-Dichloroethene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
trans-1,2-Dichloroethene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,3-Dichloropropane	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,2-Dichloropropane	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
2,2-Dichloropropane	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
cis-1,3-Dichloropropene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
trans-1,3-Dichloropropene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,1-Dichloropropene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Ethylbenzene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Hexachlorobutadiene	ND		0.00493		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
2-Hexanone	ND		0.0493		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Isopropylbenzene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
p-Isopropyltoluene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Methyl tert-Butyl Ether	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Methylene Chloride	ND		0.00986		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
4-Methyl-2-pentanone	ND		0.0493		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Naphthalene	ND		0.00493		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
n-Propylbenzene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Styrene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,1,1,2-Tetrachloroethane	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00

Client Sample ID: F-07-(5-7) Lab Sample ID: NUF1519-05

Date Collected: 06/07/11 11:55 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 80.3**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Tetrachloroethene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Toluene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,2,3-Trichlorobenzene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,2,4-Trichlorobenzene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,1,2-Trichloroethane	ND		0.00493		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,1,1-Trichloroethane	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Trichloroethene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Trichlorofluoromethane	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,2,3-Trichloropropane	ND	L	0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,3,5-Trimethylbenzene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
1,2,4-Trimethylbenzene	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Vinyl chloride	ND		0.00197		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00
Xylenes, total	ND		0.00493		mg/kg		06/10/11 13:37	06/10/11 18:56	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*117*		*67 - 138*	*06/10/11 13:37*	*06/10/11 18:56*	*1.00*
Dibromofluoromethane	*104*		*75 - 125*	*06/10/11 13:37*	*06/10/11 18:56*	*1.00*
Toluene-d8	*99*		*76 - 129*	*06/10/11 13:37*	*06/10/11 18:56*	*1.00*
4-Bromofluorobenzene	*101*		*67 - 147*	*06/10/11 13:37*	*06/10/11 18:56*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Acenaphthylene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Anthracene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Benzo (a) anthracene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Benzo (a) pyrene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Benzo (b) fluoranthene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Benzo (g,h,i) perylene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Benzo (k) fluoranthene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
4-Bromophenyl phenyl ether	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Butyl benzyl phthalate	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Carbazole	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
4-Chloro-3-methylphenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
4-Chloroaniline	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Bis(2-chloroethoxy)methane	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Bis(2-chloroethyl)ether	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Bis(2-chloroisopropyl)ether	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
2-Chloronaphthalene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
2-Chlorophenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
4-Chlorophenyl phenyl ether	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Chrysene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Dibenz (a,h) anthracene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Dibenzofuran	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Di-n-butyl phthalate	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
1,4-Dichlorobenzene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
1,2-Dichlorobenzene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
1,3-Dichlorobenzene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
3,3-Dichlorobenzidine	ND		0.648		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
2,4-Dichlorophenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00

Client Sample ID: F-07-(5-7) Lab Sample ID: NUF1519-05

Date Collected: 06/07/11 11:55 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 80.3**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
2,4-Dimethylphenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Dimethyl phthalate	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
4,6-Dinitro-2-methylphenol	ND		0.809		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
2,4-Dinitrophenol	ND		0.809		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
2,6-Dinitrotoluene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
2,4-Dinitrotoluene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Di-n-octyl phthalate	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Bis(2-ethylhexyl)phthalate	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Fluoranthene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Fluorene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Hexachlorobenzene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Hexachlorobutadiene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Hexachlorocyclopentadiene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Hexachloroethane	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Isophorone	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
2-Methylnaphthalene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
2-Methylphenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
3/4-Methylphenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Naphthalene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
3-Nitroaniline	ND		0.809		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
2-Nitroaniline	ND		0.809		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
4-Nitroaniline	ND		0.809		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Nitrobenzene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
4-Nitrophenol	ND		0.809		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
2-Nitrophenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
N-Nitrosodiphenylamine	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
N-Nitrosodi-n-propylamine	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Pentachlorophenol	ND		0.809		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Phenanthrene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Phenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
Pyrene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
1,2,4-Trichlorobenzene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
1-Methylnaphthalene	ND		0.0651		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
2,4,6-Trichlorophenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00
2,4,5-Trichlorophenol	ND		0.809		mg/kg		06/11/11 08:20	06/14/11 04:22	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*82*		*18 - 120*	*06/11/11 08:20*	*06/14/11 04:22*	*1.00*
2,4,6-Tribromophenol	*59*		*19 - 120*	*06/11/11 08:20*	*06/14/11 04:22*	*1.00*
Phenol-d5	*64*		*18 - 120*	*06/11/11 08:20*	*06/14/11 04:22*	*1.00*
2-Fluorobiphenyl	*64*		*14 - 120*	*06/11/11 08:20*	*06/14/11 04:22*	*1.00*
2-Fluorophenol	*64*		*17 - 120*	*06/11/11 08:20*	*06/14/11 04:22*	*1.00*
Nitrobenzene-d5	*53*		*17 - 120*	*06/11/11 08:20*	*06/14/11 04:22*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		3.88		mg/kg		06/13/11 09:25	06/14/11 00:10	1.00
TPH - Oil Range	ND		3.88		mg/kg		06/13/11 09:25	06/14/11 00:10	1.00

Client Sample ID: F-07-(5-7) Lab Sample ID: NUF1519-05

Date Collected: 06/07/11 11:55 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 80.3**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*53 - 140*	*06/13/11 09:25*	*06/14/11 00:10*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0327		mg/kg		06/11/11 07:20	06/14/11 01:55	1.00
PCB-1221	ND		0.0327		mg/kg		06/11/11 07:20	06/14/11 01:55	1.00
PCB-1232	ND		0.0327		mg/kg		06/11/11 07:20	06/14/11 01:55	1.00
PCB-1242	ND		0.0327		mg/kg		06/11/11 07:20	06/14/11 01:55	1.00
PCB-1248	ND		0.0327		mg/kg		06/11/11 07:20	06/14/11 01:55	1.00
PCB-1254	ND		0.0327		mg/kg		06/11/11 07:20	06/14/11 01:55	1.00
PCB-1260	ND		0.0327		mg/kg		06/11/11 07:20	06/14/11 01:55	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*96*		*19 - 147*	*06/11/11 07:20*	*06/14/11 01:55*	*1.00*
Decachlorobiphenyl	*116*		*20 - 150*	*06/11/11 07:20*	*06/14/11 01:55*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.55**		0.980		mg/kg		06/10/11 10:06	06/10/11 20:50	1.00
Barium	**106**		1.96		mg/kg		06/10/11 10:06	06/10/11 20:50	1.00
Cadmium	ND		0.980		mg/kg		06/10/11 10:06	06/10/11 20:50	1.00
Chromium	**19.3**		0.980		mg/kg		06/10/11 10:06	06/10/11 20:50	1.00
Lead	**7.47**		0.980		mg/kg		06/10/11 10:06	06/10/11 20:50	1.00
Selenium	ND		1.96		mg/kg		06/10/11 10:06	06/10/11 20:50	1.00
Silver	ND		0.980		mg/kg		06/10/11 10:06	06/10/11 20:50	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.10		mg/kg		06/14/11 09:30	06/15/11 11:01	1.0

Client Sample ID: F-07-(9-10) Lab Sample ID: NUF1519-06

Date Collected: 06/07/11 12:15 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 85.8**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0443		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Benzene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Bromobenzene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Bromochloromethane	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Bromodichloromethane	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Bromoform	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Bromomethane	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,2-Dibromo-3-chloropropane	ND		0.00443		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
2-Butanone	ND		0.0443		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
sec-Butylbenzene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
n-Butylbenzene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
tert-Butylbenzene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Carbon disulfide	ND		0.00443		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Carbon Tetrachloride	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Chlorobenzene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Chlorodibromomethane	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Chloroethane	ND		0.00443		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Chloroform	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Chloromethane	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
2-Chlorotoluene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
4-Chlorotoluene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,2-Dibromoethane (EDB)	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Dibromomethane	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,4-Dichlorobenzene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,3-Dichlorobenzene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,2-Dichlorobenzene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Dichlorodifluoromethane	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,1-Dichloroethane	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,2-Dichloroethane	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
cis-1,2-Dichloroethene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,1-Dichloroethene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
trans-1,2-Dichloroethene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,3-Dichloropropane	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,2-Dichloropropane	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
2,2-Dichloropropane	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
cis-1,3-Dichloropropene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
trans-1,3-Dichloropropene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,1-Dichloropropene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Ethylbenzene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Hexachlorobutadiene	ND		0.00443		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
2-Hexanone	ND		0.0443		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Isopropylbenzene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
p-Isopropyltoluene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Methyl tert-Butyl Ether	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Methylene Chloride	ND		0.00887		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
4-Methyl-2-pentanone	ND		0.0443		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Naphthalene	ND		0.00443		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
n-Propylbenzene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Styrene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,1,1,2-Tetrachloroethane	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00

Client Sample ID: F-07-(9-10) Lab Sample ID: NUF1519-06

Date Collected: 06/07/11 12:15 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 85.8**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Tetrachloroethene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Toluene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,2,3-Trichlorobenzene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,2,4-Trichlorobenzene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,1,2-Trichloroethane	ND		0.00443		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,1,1-Trichloroethane	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Trichloroethene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Trichlorofluoromethane	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,2,3-Trichloropropane	ND	L	0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,3,5-Trimethylbenzene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
1,2,4-Trimethylbenzene	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Vinyl chloride	ND		0.00177		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00
Xylenes, total	ND		0.00443		mg/kg		06/10/11 13:40	06/10/11 19:27	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*119*		*67 - 138*	*06/10/11 13:40*	*06/10/11 19:27*	*1.00*
Dibromofluoromethane	*102*		*75 - 125*	*06/10/11 13:40*	*06/10/11 19:27*	*1.00*
Toluene-d8	*99*		*76 - 129*	*06/10/11 13:40*	*06/10/11 19:27*	*1.00*
4-Bromofluorobenzene	*105*		*67 - 147*	*06/10/11 13:40*	*06/10/11 19:27*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Acenaphthylene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Anthracene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Benzo (a) anthracene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Benzo (a) pyrene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Benzo (b) fluoranthene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Benzo (g,h,i) perylene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Benzo (k) fluoranthene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
4-Bromophenyl phenyl ether	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Butyl benzyl phthalate	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Carbazole	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
4-Chloro-3-methylphenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
4-Chloroaniline	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Bis(2-chloroethoxy)methane	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Bis(2-chloroethyl)ether	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Bis(2-chloroisopropyl)ether	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
2-Chloronaphthalene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
2-Chlorophenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
4-Chlorophenyl phenyl ether	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Chrysene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Dibenz (a,h) anthracene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Dibenzofuran	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Di-n-butyl phthalate	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
1,4-Dichlorobenzene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
1,2-Dichlorobenzene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
1,3-Dichlorobenzene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
3,3-Dichlorobenzidine	ND		0.647		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
2,4-Dichlorophenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00

Client Sample ID: F-07-(9-10) Lab Sample ID: NUF1519-06

Date Collected: 06/07/11 12:15 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 85.8**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
2,4-Dimethylphenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Dimethyl phthalate	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
4,6-Dinitro-2-methylphenol	ND		0.808		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
2,4-Dinitrophenol	ND		0.808		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
2,6-Dinitrotoluene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
2,4-Dinitrotoluene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Di-n-octyl phthalate	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Bis(2-ethylhexyl)phthalate	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Fluoranthene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Fluorene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Hexachlorobenzene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Hexachlorobutadiene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Hexachlorocyclopentadiene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Hexachloroethane	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Isophorone	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
2-Methylnaphthalene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
2-Methylphenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
3/4-Methylphenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Naphthalene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
3-Nitroaniline	ND		0.808		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
2-Nitroaniline	ND		0.808		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
4-Nitroaniline	ND		0.808		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Nitrobenzene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
4-Nitrophenol	ND		0.808		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
2-Nitrophenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
N-Nitrosodiphenylamine	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
N-Nitrosodi-n-propylamine	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Pentachlorophenol	ND		0.808		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Phenanthrene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Phenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
Pyrene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
1,2,4-Trichlorobenzene	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
1-Methylnaphthalene	ND		0.0650		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
2,4,6-Trichlorophenol	ND		0.323		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00
2,4,5-Trichlorophenol	ND		0.808		mg/kg		06/11/11 08:20	06/14/11 04:43	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*77*		*18 - 120*	*06/11/11 08:20*	*06/14/11 04:43*	*1.00*
2,4,6-Tribromophenol	*49*		*19 - 120*	*06/11/11 08:20*	*06/14/11 04:43*	*1.00*
Phenol-d5	*62*		*18 - 120*	*06/11/11 08:20*	*06/14/11 04:43*	*1.00*
2-Fluorobiphenyl	*60*		*14 - 120*	*06/11/11 08:20*	*06/14/11 04:43*	*1.00*
2-Fluorophenol	*63*		*17 - 120*	*06/11/11 08:20*	*06/14/11 04:43*	*1.00*
Nitrobenzene-d5	*49*		*17 - 120*	*06/11/11 08:20*	*06/14/11 04:43*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		3.88		mg/kg		06/13/11 09:25	06/14/11 00:26	1.00
TPH - Oil Range	ND		3.88		mg/kg		06/13/11 09:25	06/14/11 00:26	1.00

Client Sample ID: F-07-(9-10) Lab Sample ID: NUF1519-06

Date Collected: 06/07/11 12:15 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 85.8**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*53 - 140*	*06/13/11 09:25*	*06/14/11 00:26*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0332		mg/kg		06/11/11 07:20	06/14/11 02:17	1.00
PCB-1221	ND		0.0332		mg/kg		06/11/11 07:20	06/14/11 02:17	1.00
PCB-1232	ND		0.0332		mg/kg		06/11/11 07:20	06/14/11 02:17	1.00
PCB-1242	ND		0.0332		mg/kg		06/11/11 07:20	06/14/11 02:17	1.00
PCB-1248	ND		0.0332		mg/kg		06/11/11 07:20	06/14/11 02:17	1.00
PCB-1254	**0.0697**		0.0332		mg/kg		06/11/11 07:20	06/14/11 02:17	1.00
PCB-1260	ND		0.0332		mg/kg		06/11/11 07:20	06/14/11 02:17	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*94*		*19 - 147*	*06/11/11 07:20*	*06/14/11 02:17*	*1.00*
Decachlorobiphenyl	*126*		*20 - 150*	*06/11/11 07:20*	*06/14/11 02:17*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.24**		0.973		mg/kg		06/10/11 10:06	06/10/11 20:53	1.00
Barium	**103**		1.95		mg/kg		06/10/11 10:06	06/10/11 20:53	1.00
Cadmium	ND		0.973		mg/kg		06/10/11 10:06	06/10/11 20:53	1.00
Chromium	**15.7**		0.973		mg/kg		06/10/11 10:06	06/10/11 20:53	1.00
Lead	**14.6**		0.973		mg/kg		06/10/11 10:06	06/10/11 20:53	1.00
Selenium	ND		1.95		mg/kg		06/10/11 10:06	06/10/11 20:53	1.00
Silver	ND		0.973		mg/kg		06/10/11 10:06	06/10/11 20:53	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.10		mg/kg		06/14/11 09:30	06/15/11 11:04	1.0

Client Sample ID: F-09-(2-3) Lab Sample ID: NUF1519-07

Date Collected: 06/07/11 10:35 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 85.2**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0581		0.0491		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Benzene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Bromobenzene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Bromochloromethane	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Bromodichloromethane	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Bromoform	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Bromomethane	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,2-Dibromo-3-chloropropane	ND		0.00491		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
2-Butanone	ND		0.0491		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
sec-Butylbenzene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
n-Butylbenzene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
tert-Butylbenzene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Carbon disulfide	ND		0.00491		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Carbon Tetrachloride	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Chlorobenzene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Chlorodibromomethane	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Chloroethane	ND		0.00491		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Chloroform	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Chloromethane	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
2-Chlorotoluene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
4-Chlorotoluene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,2-Dibromoethane (EDB)	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Dibromomethane	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,4-Dichlorobenzene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,3-Dichlorobenzene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,2-Dichlorobenzene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Dichlorodifluoromethane	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,1-Dichloroethane	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,2-Dichloroethane	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
cis-1,2-Dichloroethene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,1-Dichloroethene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
trans-1,2-Dichloroethene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,3-Dichloropropane	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,2-Dichloropropane	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
2,2-Dichloropropane	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
cis-1,3-Dichloropropene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
trans-1,3-Dichloropropene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,1-Dichloropropene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Ethylbenzene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Hexachlorobutadiene	ND		0.00491		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
2-Hexanone	ND		0.0491		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Isopropylbenzene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
p-Isopropyltoluene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Methyl tert-Butyl Ether	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Methylene Chloride	ND		0.00982		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
4-Methyl-2-pentanone	ND		0.0491		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Naphthalene	ND		0.00491		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
n-Propylbenzene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Styrene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,1,1,2-Tetrachloroethane	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00

Client Sample ID: F-09-(2-3) Lab Sample ID: NUF1519-07

Date Collected: 06/07/11 10:35 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 85.2**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Tetrachloroethene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Toluene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,2,3-Trichlorobenzene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,2,4-Trichlorobenzene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,1,2-Trichloroethane	ND		0.00491		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,1,1-Trichloroethane	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Trichloroethene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Trichlorofluoromethane	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,2,3-Trichloropropane	ND	L	0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,3,5-Trimethylbenzene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
1,2,4-Trimethylbenzene	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Vinyl chloride	ND		0.00196		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00
Xylenes, total	ND		0.00491		mg/kg		06/10/11 13:42	06/10/11 19:57	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*119*		*67 - 138*	*06/10/11 13:42*	*06/10/11 19:57*	*1.00*
Dibromofluoromethane	*103*		*75 - 125*	*06/10/11 13:42*	*06/10/11 19:57*	*1.00*
Toluene-d8	*101*		*76 - 129*	*06/10/11 13:42*	*06/10/11 19:57*	*1.00*
4-Bromofluorobenzene	*103*		*67 - 147*	*06/10/11 13:42*	*06/10/11 19:57*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Acenaphthylene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Anthracene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Benzo (a) anthracene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Benzo (a) pyrene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Benzo (b) fluoranthene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Benzo (g,h,i) perylene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Benzo (k) fluoranthene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
4-Bromophenyl phenyl ether	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Butyl benzyl phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Carbazole	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
4-Chloro-3-methylphenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
4-Chloroaniline	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Bis(2-chloroethoxy)methane	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Bis(2-chloroethyl)ether	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Bis(2-chloroisopropyl)ether	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
2-Chloronaphthalene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
2-Chlorophenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
4-Chlorophenyl phenyl ether	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Chrysene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Dibenz (a,h) anthracene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Dibenzofuran	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Di-n-butyl phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
1,4-Dichlorobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
1,2-Dichlorobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
1,3-Dichlorobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
3,3-Dichlorobenzidine	ND		0.660		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
2,4-Dichlorophenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00

Client Sample ID: F-09-(2-3) Lab Sample ID: NUF1519-07

Date Collected: 06/07/11 10:35 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 85.2**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
2,4-Dimethylphenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Dimethyl phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
4,6-Dinitro-2-methylphenol	ND		0.824		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
2,4-Dinitrophenol	ND		0.824		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
2,6-Dinitrotoluene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
2,4-Dinitrotoluene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Di-n-octyl phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Bis(2-ethylhexyl)phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Fluoranthene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Fluorene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Hexachlorobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Hexachlorobutadiene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Hexachlorocyclopentadiene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Hexachloroethane	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Isophorone	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
2-Methylnaphthalene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
2-Methylphenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
3/4-Methylphenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Naphthalene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
3-Nitroaniline	ND		0.824		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
2-Nitroaniline	ND		0.824		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
4-Nitroaniline	ND		0.824		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Nitrobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
4-Nitrophenol	ND		0.824		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
2-Nitrophenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
N-Nitrosodiphenylamine	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
N-Nitrosodi-n-propylamine	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Pentachlorophenol	ND		0.824		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Phenanthrene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Phenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
Pyrene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
1,2,4-Trichlorobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
1-Methylnaphthalene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
2,4,6-Trichlorophenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00
2,4,5-Trichlorophenol	ND		0.824		mg/kg		06/11/11 08:20	06/14/11 05:04	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*73*		*18 - 120*	*06/11/11 08:20*	*06/14/11 05:04*	*1.00*
2,4,6-Tribromophenol	*47*		*19 - 120*	*06/11/11 08:20*	*06/14/11 05:04*	*1.00*
Phenol-d5	*53*		*18 - 120*	*06/11/11 08:20*	*06/14/11 05:04*	*1.00*
2-Fluorobiphenyl	*53*		*14 - 120*	*06/11/11 08:20*	*06/14/11 05:04*	*1.00*
2-Fluorophenol	*52*		*17 - 120*	*06/11/11 08:20*	*06/14/11 05:04*	*1.00*
Nitrobenzene-d5	*44*		*17 - 120*	*06/11/11 08:20*	*06/14/11 05:04*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		4.00		mg/kg		06/13/11 09:25	06/14/11 00:42	1.00
TPH - Oil Range	ND		4.00		mg/kg		06/13/11 09:25	06/14/11 00:42	1.00

Client Sample ID: F-09-(2-3) Lab Sample ID: NUF1519-07

Date Collected: 06/07/11 10:35 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 85.2**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*53 - 140*	*06/13/11 09:25*	*06/14/11 00:42*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0333		mg/kg		06/11/11 07:20	06/14/11 02:39	1.00
PCB-1221	ND		0.0333		mg/kg		06/11/11 07:20	06/14/11 02:39	1.00
PCB-1232	ND		0.0333		mg/kg		06/11/11 07:20	06/14/11 02:39	1.00
PCB-1242	ND		0.0333		mg/kg		06/11/11 07:20	06/14/11 02:39	1.00
PCB-1248	ND		0.0333		mg/kg		06/11/11 07:20	06/14/11 02:39	1.00
PCB-1254	ND		0.0333		mg/kg		06/11/11 07:20	06/14/11 02:39	1.00
PCB-1260	ND		0.0333		mg/kg		06/11/11 07:20	06/14/11 02:39	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*92*		*19 - 147*	*06/11/11 07:20*	*06/14/11 02:39*	*1.00*
Decachlorobiphenyl	*110*		*20 - 150*	*06/11/11 07:20*	*06/14/11 02:39*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.37**		0.969		mg/kg		06/10/11 10:06	06/10/11 20:57	1.00
Barium	**133**		1.94		mg/kg		06/10/11 10:06	06/10/11 20:57	1.00
Cadmium	ND		0.969		mg/kg		06/10/11 10:06	06/10/11 20:57	1.00
Chromium	**19.3**		0.969		mg/kg		06/10/11 10:06	06/10/11 20:57	1.00
Lead	**13.5**		0.969		mg/kg		06/10/11 10:06	06/10/11 20:57	1.00
Selenium	ND		1.94		mg/kg		06/10/11 10:06	06/10/11 20:57	1.00
Silver	ND		0.969		mg/kg		06/10/11 10:06	06/10/11 20:57	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.097		mg/kg		06/14/11 09:30	06/15/11 11:07	1.0

Client Sample ID: F-03-(7-9) Lab Sample ID: NUF1519-08

Date Collected: 06/07/11 13:15 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 79.2**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0421		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Benzene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Bromobenzene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Bromochloromethane	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Bromodichloromethane	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Bromoform	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Bromomethane	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,2-Dibromo-3-chloropropane	ND		0.00421		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
2-Butanone	ND		0.0421		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
sec-Butylbenzene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
n-Butylbenzene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
tert-Butylbenzene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Carbon disulfide	ND		0.00421		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Carbon Tetrachloride	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Chlorobenzene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Chlorodibromomethane	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Chloroethane	ND		0.00421		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Chloroform	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Chloromethane	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
2-Chlorotoluene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
4-Chlorotoluene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,2-Dibromoethane (EDB)	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Dibromomethane	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,4-Dichlorobenzene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,3-Dichlorobenzene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,2-Dichlorobenzene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Dichlorodifluoromethane	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,1-Dichloroethane	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,2-Dichloroethane	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
cis-1,2-Dichloroethene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,1-Dichloroethene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
trans-1,2-Dichloroethene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,3-Dichloropropane	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,2-Dichloropropane	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
2,2-Dichloropropane	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
cis-1,3-Dichloropropene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
trans-1,3-Dichloropropene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,1-Dichloropropene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Ethylbenzene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Hexachlorobutadiene	ND		0.00421		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
2-Hexanone	ND		0.0421		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Isopropylbenzene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
p-Isopropyltoluene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Methyl tert-Butyl Ether	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Methylene Chloride	ND		0.00842		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
4-Methyl-2-pentanone	ND		0.0421		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Naphthalene	ND		0.00421		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
n-Propylbenzene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Styrene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,1,1,2-Tetrachloroethane	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00

Client Sample ID: F-03-(7-9) Lab Sample ID: NUF1519-08

Date Collected: 06/07/11 13:15 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 79.2**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Tetrachloroethene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Toluene	**0.00460**		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,2,3-Trichlorobenzene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,2,4-Trichlorobenzene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,1,2-Trichloroethane	ND		0.00421		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,1,1-Trichloroethane	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Trichloroethene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Trichlorofluoromethane	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,2,3-Trichloropropane	ND	L	0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,3,5-Trimethylbenzene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
1,2,4-Trimethylbenzene	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Vinyl chloride	ND		0.00168		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00
Xylenes, total	ND		0.00421		mg/kg		06/10/11 13:43	06/10/11 20:28	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*119*		*67 - 138*	*06/10/11 13:43*	*06/10/11 20:28*	*1.00*
Dibromofluoromethane	*102*		*75 - 125*	*06/10/11 13:43*	*06/10/11 20:28*	*1.00*
Toluene-d8	*103*		*76 - 129*	*06/10/11 13:43*	*06/10/11 20:28*	*1.00*
4-Bromofluorobenzene	*108*		*67 - 147*	*06/10/11 13:43*	*06/10/11 20:28*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Acenaphthylene	ND		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Anthracene	ND		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Benzo (a) anthracene	**0.105**		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Benzo (a) pyrene	**0.0932**		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Benzo (b) fluoranthene	**0.0760**		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Benzo (g,h,i) perylene	**0.0705**		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Benzo (k) fluoranthene	ND		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
4-Bromophenyl phenyl ether	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Butyl benzyl phthalate	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Carbazole	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
4-Chloro-3-methylphenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
4-Chloroaniline	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Bis(2-chloroethoxy)methane	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Bis(2-chloroethyl)ether	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Bis(2-chloroisopropyl)ether	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
2-Chloronaphthalene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
2-Chlorophenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
4-Chlorophenyl phenyl ether	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Chrysene	**0.107**		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Dibenz (a,h) anthracene	ND		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Dibenzofuran	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Di-n-butyl phthalate	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
1,4-Dichlorobenzene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
1,2-Dichlorobenzene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
1,3-Dichlorobenzene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
3,3-Dichlorobenzidine	ND		0.650		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
2,4-Dichlorophenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00

Client Sample ID: F-03-(7-9) Lab Sample ID: NUF1519-08

Date Collected: 06/07/11 13:15 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 79.2**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
2,4-Dimethylphenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Dimethyl phthalate	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
4,6-Dinitro-2-methylphenol	ND		0.811		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
2,4-Dinitrophenol	ND		0.811		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
2,6-Dinitrotoluene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
2,4-Dinitrotoluene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Di-n-octyl phthalate	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Bis(2-ethylhexyl)phthalate	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Fluoranthene	**0.123**		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Fluorene	ND		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Hexachlorobenzene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Hexachlorobutadiene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Hexachlorocyclopentadiene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Hexachloroethane	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Isophorone	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
2-Methylnaphthalene	ND		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
2-Methylphenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
3/4-Methylphenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Naphthalene	ND		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
3-Nitroaniline	ND		0.811		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
2-Nitroaniline	ND		0.811		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
4-Nitroaniline	ND		0.811		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Nitrobenzene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
4-Nitrophenol	ND		0.811		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
2-Nitrophenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
N-Nitrosodiphenylamine	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
N-Nitrosodi-n-propylamine	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Pentachlorophenol	ND		0.811		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Phenanthrene	**0.0753**		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Phenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
Pyrene	**0.204**		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
1,2,4-Trichlorobenzene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
1-Methylnaphthalene	ND		0.0653		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
2,4,6-Trichlorophenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00
2,4,5-Trichlorophenol	ND		0.811		mg/kg		06/11/11 08:20	06/14/11 05:24	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*82*		*18 - 120*	*06/11/11 08:20*	*06/14/11 05:24*	*1.00*
2,4,6-Tribromophenol	*53*		*19 - 120*	*06/11/11 08:20*	*06/14/11 05:24*	*1.00*
Phenol-d5	*67*		*18 - 120*	*06/11/11 08:20*	*06/14/11 05:24*	*1.00*
2-Fluorobiphenyl	*63*		*14 - 120*	*06/11/11 08:20*	*06/14/11 05:24*	*1.00*
2-Fluorophenol	*65*		*17 - 120*	*06/11/11 08:20*	*06/14/11 05:24*	*1.00*
Nitrobenzene-d5	*57*		*17 - 120*	*06/11/11 08:20*	*06/14/11 05:24*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		3.93		mg/kg		06/13/11 09:25	06/14/11 01:15	1.00
TPH - Oil Range	**5.70**		3.93		mg/kg		06/13/11 09:25	06/14/11 01:15	1.00

Client Sample ID: F-03-(7-9) Lab Sample ID: NUF1519-08

Date Collected: 06/07/11 13:15 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 79.2**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*53 - 140*	*06/13/11 09:25*	*06/14/11 01:15*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0330		mg/kg		06/11/11 07:20	06/14/11 03:00	1.00
PCB-1221	ND		0.0330		mg/kg		06/11/11 07:20	06/14/11 03:00	1.00
PCB-1232	ND		0.0330		mg/kg		06/11/11 07:20	06/14/11 03:00	1.00
PCB-1242	ND		0.0330		mg/kg		06/11/11 07:20	06/14/11 03:00	1.00
PCB-1248	ND		0.0330		mg/kg		06/11/11 07:20	06/14/11 03:00	1.00
PCB-1254	ND		0.0330		mg/kg		06/11/11 07:20	06/14/11 03:00	1.00
PCB-1260	ND		0.0330		mg/kg		06/11/11 07:20	06/14/11 03:00	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*92*		*19 - 147*	*06/11/11 07:20*	*06/14/11 03:00*	*1.00*
Decachlorobiphenyl	*108*		*20 - 150*	*06/11/11 07:20*	*06/14/11 03:00*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.75**		0.952		mg/kg		06/10/11 10:06	06/10/11 21:00	1.00
Barium	**213**		1.90		mg/kg		06/10/11 10:06	06/10/11 21:00	1.00
Cadmium	ND		0.952		mg/kg		06/10/11 10:06	06/10/11 21:00	1.00
Chromium	**12.6**		0.952		mg/kg		06/10/11 10:06	06/10/11 21:00	1.00
Lead	**362**		0.952		mg/kg		06/10/11 10:06	06/10/11 21:00	1.00
Selenium	ND		1.90		mg/kg		06/10/11 10:06	06/10/11 21:00	1.00
Silver	ND		0.952		mg/kg		06/10/11 10:06	06/10/11 21:00	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.098		mg/kg		06/14/11 09:30	06/15/11 11:09	1.0

Client Sample ID: F-03-(9.5-11) Lab Sample ID: NUF1519-09

Date Collected: 06/07/11 13:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 79.4**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0455		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Benzene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Bromobenzene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Bromochloromethane	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Bromodichloromethane	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Bromoform	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Bromomethane	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,2-Dibromo-3-chloropropane	ND		0.00455		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
2-Butanone	ND		0.0455		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
sec-Butylbenzene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
n-Butylbenzene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
tert-Butylbenzene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Carbon disulfide	ND		0.00455		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Carbon Tetrachloride	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Chlorobenzene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Chlorodibromomethane	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Chloroethane	ND		0.00455		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Chloroform	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Chloromethane	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
2-Chlorotoluene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
4-Chlorotoluene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,2-Dibromoethane (EDB)	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Dibromomethane	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,4-Dichlorobenzene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,3-Dichlorobenzene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,2-Dichlorobenzene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Dichlorodifluoromethane	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,1-Dichloroethane	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,2-Dichloroethane	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
cis-1,2-Dichloroethene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,1-Dichloroethene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
trans-1,2-Dichloroethene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,3-Dichloropropane	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,2-Dichloropropane	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
2,2-Dichloropropane	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
cis-1,3-Dichloropropene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
trans-1,3-Dichloropropene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,1-Dichloropropene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Ethylbenzene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Hexachlorobutadiene	ND		0.00455		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
2-Hexanone	ND		0.0455		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Isopropylbenzene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
p-Isopropyltoluene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Methyl tert-Butyl Ether	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Methylene Chloride	ND		0.00911		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
4-Methyl-2-pentanone	ND		0.0455		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Naphthalene	ND		0.00455		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
n-Propylbenzene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Styrene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,1,1,2-Tetrachloroethane	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00

Client Sample ID: F-03-(9.5-11) Lab Sample ID: NUF1519-09

Date Collected: 06/07/11 13:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 79.4**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Tetrachloroethene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Toluene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,2,3-Trichlorobenzene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,2,4-Trichlorobenzene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,1,2-Trichloroethane	ND		0.00455		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,1,1-Trichloroethane	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Trichloroethene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Trichlorofluoromethane	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,2,3-Trichloropropane	ND	L	0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,3,5-Trimethylbenzene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
1,2,4-Trimethylbenzene	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Vinyl chloride	ND		0.00182		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00
Xylenes, total	ND		0.00455		mg/kg		06/10/11 13:45	06/10/11 16:22	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*111*		*67 - 138*	*06/10/11 13:45*	*06/10/11 16:22*	*1.00*
Dibromofluoromethane	*98*		*75 - 125*	*06/10/11 13:45*	*06/10/11 16:22*	*1.00*
Toluene-d8	*105*		*76 - 129*	*06/10/11 13:45*	*06/10/11 16:22*	*1.00*
4-Bromofluorobenzene	*116*		*67 - 147*	*06/10/11 13:45*	*06/10/11 16:22*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Acenaphthylene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Anthracene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Benzo (a) anthracene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Benzo (a) pyrene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Benzo (b) fluoranthene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Benzo (g,h,i) perylene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Benzo (k) fluoranthene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
4-Bromophenyl phenyl ether	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Butyl benzyl phthalate	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Carbazole	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
4-Chloro-3-methylphenol	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
4-Chloroaniline	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Bis(2-chloroethoxy)methane	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Bis(2-chloroethyl)ether	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Bis(2-chloroisopropyl)ether	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
2-Chloronaphthalene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
2-Chlorophenol	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
4-Chlorophenyl phenyl ether	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Chrysene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Dibenz (a,h) anthracene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Dibenzofuran	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Di-n-butyl phthalate	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
1,4-Dichlorobenzene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
1,2-Dichlorobenzene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
1,3-Dichlorobenzene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
3,3-Dichlorobenzidine	ND		0.655		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
2,4-Dichlorophenol	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00

Client Sample ID: F-03-(9.5-11) Lab Sample ID: NUF1519-09

Date Collected: 06/07/11 13:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 79.4**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
2,4-Dimethylphenol	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Dimethyl phthalate	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
4,6-Dinitro-2-methylphenol	ND		0.818		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
2,4-Dinitrophenol	ND		0.818		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
2,6-Dinitrotoluene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
2,4-Dinitrotoluene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Di-n-octyl phthalate	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Bis(2-ethylhexyl)phthalate	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Fluoranthene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Fluorene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Hexachlorobenzene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Hexachlorobutadiene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Hexachlorocyclopentadiene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Hexachloroethane	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Isophorone	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
2-Methylnaphthalene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
2-Methylphenol	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
3/4-Methylphenol	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Naphthalene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
3-Nitroaniline	ND		0.818		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
2-Nitroaniline	ND		0.818		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
4-Nitroaniline	ND		0.818		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Nitrobenzene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
4-Nitrophenol	ND		0.818		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
2-Nitrophenol	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
N-Nitrosodiphenylamine	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
N-Nitrosodi-n-propylamine	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Pentachlorophenol	ND		0.818		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Phenanthrene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Phenol	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
Pyrene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
1,2,4-Trichlorobenzene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
1-Methylnaphthalene	ND		0.0658		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
2,4,6-Trichlorophenol	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00
2,4,5-Trichlorophenol	ND		0.818		mg/kg		06/11/11 08:20	06/14/11 05:45	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*78*		*18 - 120*	*06/11/11 08:20*	*06/14/11 05:45*	*1.00*
2,4,6-Tribromophenol	*44*		*19 - 120*	*06/11/11 08:20*	*06/14/11 05:45*	*1.00*
Phenol-d5	*62*		*18 - 120*	*06/11/11 08:20*	*06/14/11 05:45*	*1.00*
2-Fluorobiphenyl	*56*		*14 - 120*	*06/11/11 08:20*	*06/14/11 05:45*	*1.00*
2-Fluorophenol	*60*		*17 - 120*	*06/11/11 08:20*	*06/14/11 05:45*	*1.00*
Nitrobenzene-d5	*48*		*17 - 120*	*06/11/11 08:20*	*06/14/11 05:45*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		3.98		mg/kg		06/13/11 09:25	06/14/11 00:58	1.00
TPH - Oil Range	ND		3.98		mg/kg		06/13/11 09:25	06/14/11 00:58	1.00

Client Sample ID: F-03-(9.5-11) Lab Sample ID: NUF1519-09

Date Collected: 06/07/11 13:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 79.4**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*53 - 140*	*06/13/11 09:25*	*06/14/11 00:58*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0331		mg/kg		06/11/11 07:20	06/14/11 03:22	1.00
PCB-1221	ND		0.0331		mg/kg		06/11/11 07:20	06/14/11 03:22	1.00
PCB-1232	ND		0.0331		mg/kg		06/11/11 07:20	06/14/11 03:22	1.00
PCB-1242	ND		0.0331		mg/kg		06/11/11 07:20	06/14/11 03:22	1.00
PCB-1248	ND		0.0331		mg/kg		06/11/11 07:20	06/14/11 03:22	1.00
PCB-1254	ND		0.0331		mg/kg		06/11/11 07:20	06/14/11 03:22	1.00
PCB-1260	ND		0.0331		mg/kg		06/11/11 07:20	06/14/11 03:22	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*98*		*19 - 147*	*06/11/11 07:20*	*06/14/11 03:22*	*1.00*
Decachlorobiphenyl	*114*		*20 - 150*	*06/11/11 07:20*	*06/14/11 03:22*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.91**		1.01		mg/kg		06/10/11 10:06	06/10/11 21:03	1.00
Barium	**91.9**		2.02		mg/kg		06/10/11 10:06	06/10/11 21:03	1.00
Cadmium	ND		1.01		mg/kg		06/10/11 10:06	06/10/11 21:03	1.00
Chromium	**20.7**		1.01		mg/kg		06/10/11 10:06	06/10/11 21:03	1.00
Lead	**13.8**		1.01		mg/kg		06/10/11 10:06	06/10/11 21:03	1.00
Selenium	ND		2.02		mg/kg		06/10/11 10:06	06/10/11 21:03	1.00
Silver	ND		1.01		mg/kg		06/10/11 10:06	06/10/11 21:03	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.096		mg/kg		06/14/11 09:30	06/15/11 11:11	1.0

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11F2699-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010244 **Prep Batch: 11F2699_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Benzene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Bromobenzene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Bromochloromethane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Bromodichloromethane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Bromoform	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Bromomethane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,2-Dibromo-3-chloropropane	ND		0.00500		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
2-Butanone	ND		0.0500		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
sec-Butylbenzene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
n-Butylbenzene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
tert-Butylbenzene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Carbon disulfide	ND		0.00500		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Carbon Tetrachloride	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Chlorobenzene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Chlorodibromomethane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Chloroethane	ND		0.00500		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Chloroform	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Chloromethane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
2-Chlorotoluene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
4-Chlorotoluene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,2-Dibromoethane (EDB)	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Dibromomethane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,4-Dichlorobenzene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,3-Dichlorobenzene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,2-Dichlorobenzene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Dichlorodifluoromethane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,1-Dichloroethane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,2-Dichloroethane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
cis-1,2-Dichloroethene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,1-Dichloroethene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
trans-1,2-Dichloroethene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,3-Dichloropropane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,2-Dichloropropane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
2,2-Dichloropropane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
cis-1,3-Dichloropropene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
trans-1,3-Dichloropropene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,1-Dichloropropene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Ethylbenzene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Hexachlorobutadiene	ND		0.00500		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
2-Hexanone	ND		0.0500		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Isopropylbenzene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
p-Isopropyltoluene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Methyl tert-Butyl Ether	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Methylene Chloride	ND		0.0100		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
4-Methyl-2-pentanone	ND		0.0500		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Naphthalene	ND		0.00500		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
n-Propylbenzene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Styrene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2699-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010244 **Prep Batch: 11F2699_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Tetrachloroethene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Toluene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,2,3-Trichlorobenzene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,2,4-Trichlorobenzene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,1,2-Trichloroethane	ND		0.00500		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,1,1-Trichloroethane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Trichloroethene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Trichlorofluoromethane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,2,3-Trichloropropane	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,3,5-Trimethylbenzene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
1,2,4-Trimethylbenzene	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Vinyl chloride	ND		0.00200		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00
Xylenes, total	ND		0.00500		mg/kg		06/10/11 00:33	06/10/11 13:46	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*122*		*67 - 138*	*06/10/11 00:33*	*06/10/11 13:46*	*1.00*
Dibromofluoromethane	*100*		*75 - 125*	*06/10/11 00:33*	*06/10/11 13:46*	*1.00*
Toluene-d8	*98*		*76 - 129*	*06/10/11 00:33*	*06/10/11 13:46*	*1.00*
4-Bromofluorobenzene	*104*		*67 - 147*	*06/10/11 00:33*	*06/10/11 13:46*	*1.00*

Lab Sample ID: 11F2699-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010244 **Prep Batch: 11F2699_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.50		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Benzene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Bromobenzene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Bromochloromethane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Bromodichloromethane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Bromoform	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Bromomethane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,2-Dibromo-3-chloropropane	ND		0.250		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
2-Butanone	ND		2.50		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
sec-Butylbenzene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
n-Butylbenzene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
tert-Butylbenzene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Carbon disulfide	ND		0.250		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Carbon Tetrachloride	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Chlorobenzene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Chlorodibromomethane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Chloroethane	ND		0.250		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Chloroform	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Chloromethane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
2-Chlorotoluene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
4-Chlorotoluene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,2-Dibromoethane (EDB)	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2699-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010244 **Prep Batch: 11F2699_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,4-Dichlorobenzene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,3-Dichlorobenzene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,2-Dichlorobenzene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Dichlorodifluoromethane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,1-Dichloroethane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,2-Dichloroethane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
cis-1,2-Dichloroethene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,1-Dichloroethene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
trans-1,2-Dichloroethene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,3-Dichloropropane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,2-Dichloropropane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
2,2-Dichloropropane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
cis-1,3-Dichloropropene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
trans-1,3-Dichloropropene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,1-Dichloropropene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Ethylbenzene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Hexachlorobutadiene	ND		0.250		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
2-Hexanone	ND		2.50		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Isopropylbenzene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
p-Isopropyltoluene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Methyl tert-Butyl Ether	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Methylene Chloride	ND		0.500		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
4-Methyl-2-pentanone	ND		2.50		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Naphthalene	ND		0.250		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
n-Propylbenzene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Styrene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,1,1,2-Tetrachloroethane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,1,2,2-Tetrachloroethane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Tetrachloroethene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Toluene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,2,3-Trichlorobenzene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,2,4-Trichlorobenzene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,1,2-Trichloroethane	ND		0.250		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,1,1-Trichloroethane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Trichloroethene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Trichlorofluoromethane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,2,3-Trichloropropane	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,3,5-Trimethylbenzene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
1,2,4-Trimethylbenzene	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Vinyl chloride	ND		0.100		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0
Xylenes, total	ND		0.250		mg/kg		06/10/11 00:33	06/10/11 13:15	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*123*		*67 - 138*	*06/10/11 00:33*	*06/10/11 13:15*	*50.0*
Dibromofluoromethane	*102*		*75 - 125*	*06/10/11 00:33*	*06/10/11 13:15*	*50.0*
Toluene-d8	*99*		*76 - 129*	*06/10/11 00:33*	*06/10/11 13:15*	*50.0*
4-Bromofluorobenzene	*106*		*67 - 147*	*06/10/11 00:33*	*06/10/11 13:15*	*50.0*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2699-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010244 **Prep Batch: 11F2699_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	360		ug/kg		144	60 - 150
Benzene	50.0	52.5		ug/kg		105	78 - 126
Bromobenzene	50.0	55.6		ug/kg		111	79 - 126
Bromochloromethane	50.0	49.7		ug/kg		99	78 - 126
Bromodichloromethane	50.0	57.7		ug/kg		115	75 - 129
Bromoform	50.0	56.1		ug/kg		112	74 - 133
Bromomethane	50.0	48.5		ug/kg		97	50 - 150
1,2-Dibromo-3-chloropropane	50.0	61.7		ug/kg		123	62 - 150
2-Butanone	250	337		ug/kg		135	68 - 149
sec-Butylbenzene	50.0	54.0		ug/kg		108	76 - 135
n-Butylbenzene	50.0	55.5		ug/kg		111	73 - 143
tert-Butylbenzene	50.0	51.0		ug/kg		102	80 - 129
Carbon disulfide	50.0	47.8		ug/kg		96	80 - 132
Carbon Tetrachloride	50.0	55.4		ug/kg		111	70 - 138
Chlorobenzene	50.0	51.5		ug/kg		103	80 - 123
Chlorodibromomethane	50.0	59.0		ug/kg		118	80 - 127
Chloroethane	50.0	48.7		ug/kg		97	55 - 150
Chloroform	50.0	55.2		ug/kg		110	70 - 127
Chloromethane	50.0	38.9		ug/kg		78	36 - 137
2-Chlorotoluene	50.0	54.2		ug/kg		108	80 - 130
4-Chlorotoluene	50.0	55.4		ug/kg		111	77 - 132
1,2-Dibromoethane (EDB)	50.0	60.5		ug/kg		121	80 - 131
Dibromomethane	50.0	57.2		ug/kg		114	78 - 128
1,4-Dichlorobenzene	50.0	51.7		ug/kg		103	80 - 129
1,3-Dichlorobenzene	50.0	51.1		ug/kg		102	80 - 131
1,2-Dichlorobenzene	50.0	52.9		ug/kg		106	80 - 127
Dichlorodifluoromethane	50.0	28.3		ug/kg		57	30 - 150
1,1-Dichloroethane	50.0	56.2		ug/kg		112	71 - 126
1,2-Dichloroethane	50.0	61.5		ug/kg		123	70 - 139
cis-1,2-Dichloroethene	50.0	57.5		ug/kg		115	75 - 126
1,1-Dichloroethene	50.0	50.6		ug/kg		101	70 - 125
trans-1,2-Dichloroethene	50.0	51.8		ug/kg		104	73 - 128
1,3-Dichloropropane	50.0	58.6		ug/kg		117	79 - 128
1,2-Dichloropropane	50.0	51.3		ug/kg		103	75 - 120
2,2-Dichloropropane	50.0	56.8		ug/kg		114	60 - 139
cis-1,3-Dichloropropene	50.0	60.2		ug/kg		120	74 - 136
trans-1,3-Dichloropropene	50.0	60.1		ug/kg		120	73 - 128
1,1-Dichloropropene	50.0	54.1		ug/kg		108	78 - 125
Ethylbenzene	50.0	53.4		ug/kg		107	79 - 130
Hexachlorobutadiene	50.0	51.5		ug/kg		103	75 - 150
2-Hexanone	250	328		ug/kg		131	65 - 150
Isopropylbenzene	50.0	57.1		ug/kg		114	65 - 121
p-Isopropyltoluene	50.0	51.1		ug/kg		102	76 - 133
Methyl tert-Butyl Ether	50.0	60.2		ug/kg		120	70 - 128
Methylene Chloride	50.0	66.4		ug/kg		133	69 - 140
4-Methyl-2-pentanone	250	318		ug/kg		127	67 - 147
Naphthalene	50.0	62.1		ug/kg		124	72 - 150
n-Propylbenzene	50.0	54.3		ug/kg		109	76 - 133
Styrene	50.0	54.8		ug/kg		110	80 - 140

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2699-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010244 **Prep Batch: 11F2699_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	51.2		ug/kg		102	80 - 132
1,1,2,2-Tetrachloroethane	50.0	66.2		ug/kg		132	75 - 135
Tetrachloroethene	50.0	47.3		ug/kg		95	76 - 130
Toluene	50.0	52.1		ug/kg		104	76 - 126
1,2,3-Trichlorobenzene	50.0	57.4		ug/kg		115	75 - 150
1,2,4-Trichlorobenzene	50.0	57.0		ug/kg		114	64 - 150
1,1,2-Trichloroethane	50.0	58.6		ug/kg		117	73 - 133
1,1,1-Trichloroethane	50.0	54.4		ug/kg		109	70 - 132
Trichloroethene	50.0	43.8		ug/kg		88	79 - 129
Trichlorofluoromethane	50.0	45.9		ug/kg		92	52 - 148
1,2,3-Trichloropropane	50.0	63.9	L1	ug/kg		128	70 - 125
1,3,5-Trimethylbenzene	50.0	53.4		ug/kg		107	80 - 134
1,2,4-Trimethylbenzene	50.0	51.1		ug/kg		102	80 - 132
Vinyl chloride	50.0	43.0		ug/kg		86	53 - 142
Xylenes, total	150	157		ug/kg		105	80 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*130*		*67 - 138*
Dibromofluoromethane	*102*		*75 - 125*
Toluene-d8	*100*		*76 - 129*
4-Bromofluorobenzene	*107*		*67 - 147*

Lab Sample ID: 11F2699-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010244 **Prep Batch: 11F2699_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	250	350		ug/kg		140	60 - 150	3	50
Benzene	50.0	51.6		ug/kg		103	78 - 126	2	50
Bromobenzene	50.0	54.7		ug/kg		109	79 - 126	2	50
Bromochloromethane	50.0	48.1		ug/kg		96	78 - 126	3	50
Bromodichloromethane	50.0	56.1		ug/kg		112	75 - 129	3	50
Bromoform	50.0	55.9		ug/kg		112	74 - 133	0.3	43
Bromomethane	50.0	48.2		ug/kg		96	50 - 150	0.6	46
1,2-Dibromo-3-chloropropane	50.0	58.6		ug/kg		117	62 - 150	5	45
2-Butanone	250	338		ug/kg		135	68 - 149	0.3	50
sec-Butylbenzene	50.0	52.6		ug/kg		105	76 - 135	3	50
n-Butylbenzene	50.0	55.4		ug/kg		111	73 - 143	0.1	50
tert-Butylbenzene	50.0	48.8		ug/kg		98	80 - 129	4	50
Carbon disulfide	50.0	48.4		ug/kg		97	80 - 132	1	48
Carbon Tetrachloride	50.0	53.6		ug/kg		107	70 - 138	3	44
Chlorobenzene	50.0	51.0		ug/kg		102	80 - 123	1	50
Chlorodibromomethane	50.0	58.4		ug/kg		117	80 - 127	1	48
Chloroethane	50.0	48.9		ug/kg		98	55 - 150	0.4	50
Chloroform	50.0	53.1		ug/kg		106	70 - 127	4	50
Chloromethane	50.0	41.4		ug/kg		83	36 - 137	6	44
2-Chlorotoluene	50.0	52.8		ug/kg		106	80 - 130	3	50
4-Chlorotoluene	50.0	53.1		ug/kg		106	77 - 132	4	50
1,2-Dibromoethane (EDB)	50.0	59.4		ug/kg		119	80 - 131	2	45

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2699-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010244 **Prep Batch: 11F2699_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dibromomethane	50.0	56.6		ug/kg		113	78 - 128	1	50
1,4-Dichlorobenzene	50.0	51.2		ug/kg		102	80 - 129	1	50
1,3-Dichlorobenzene	50.0	50.3		ug/kg		101	80 - 131	2	50
1,2-Dichlorobenzene	50.0	51.5		ug/kg		103	80 - 127	3	50
Dichlorodifluoromethane	50.0	37.5		ug/kg		75	30 - 150	28	50
1,1-Dichloroethane	50.0	55.3		ug/kg		111	71 - 126	2	50
1,2-Dichloroethane	50.0	60.9		ug/kg		122	70 - 139	0.9	50
cis-1,2-Dichloroethene	50.0	55.9		ug/kg		112	75 - 126	3	50
1,1-Dichloroethene	50.0	50.0		ug/kg		100	70 - 125	1	50
trans-1,2-Dichloroethene	50.0	54.5		ug/kg		109	73 - 128	5	40
1,3-Dichloropropane	50.0	57.9		ug/kg		116	79 - 128	1	42
1,2-Dichloropropane	50.0	48.9		ug/kg		98	75 - 120	5	50
2,2-Dichloropropane	50.0	54.8		ug/kg		110	60 - 139	3	39
cis-1,3-Dichloropropene	50.0	60.3		ug/kg		121	74 - 136	0.2	50
trans-1,3-Dichloropropene	50.0	58.1		ug/kg		116	73 - 128	3	48
1,1-Dichloropropene	50.0	52.9		ug/kg		106	78 - 125	2	50
Ethylbenzene	50.0	52.3		ug/kg		105	79 - 130	2	50
Hexachlorobutadiene	50.0	53.0		ug/kg		106	75 - 150	3	50
2-Hexanone	250	323		ug/kg		129	65 - 150	1	50
Isopropylbenzene	50.0	56.6		ug/kg		113	65 - 121	1	50
p-Isopropyltoluene	50.0	50.1		ug/kg		100	76 - 133	2	50
Methyl tert-Butyl Ether	50.0	59.4		ug/kg		119	70 - 128	1	50
Methylene Chloride	50.0	64.9		ug/kg		130	69 - 140	2	50
4-Methyl-2-pentanone	250	314		ug/kg		126	67 - 147	1	45
Naphthalene	50.0	62.3		ug/kg		125	72 - 150	0.4	50
n-Propylbenzene	50.0	53.0		ug/kg		106	76 - 133	2	50
Styrene	50.0	54.3		ug/kg		109	80 - 140	0.9	50
1,1,1,2-Tetrachloroethane	50.0	50.6		ug/kg		101	80 - 132	1	50
1,1,2,2-Tetrachloroethane	50.0	63.1		ug/kg		126	75 - 135	5	45
Tetrachloroethene	50.0	46.0		ug/kg		92	76 - 130	3	50
Toluene	50.0	51.0		ug/kg		102	76 - 126	2	50
1,2,3-Trichlorobenzene	50.0	59.1		ug/kg		118	75 - 150	3	50
1,2,4-Trichlorobenzene	50.0	58.0		ug/kg		116	64 - 150	2	50
1,1,2-Trichloroethane	50.0	57.1		ug/kg		114	73 - 133	3	50
1,1,1-Trichloroethane	50.0	54.2		ug/kg		108	70 - 132	0.5	41
Trichloroethene	50.0	43.1		ug/kg		86	79 - 129	2	50
Trichlorofluoromethane	50.0	46.0		ug/kg		92	52 - 148	0.3	47
1,2,3-Trichloropropane	50.0	61.1		ug/kg		122	70 - 125	5	47
1,3,5-Trimethylbenzene	50.0	51.5		ug/kg		103	80 - 134	4	50
1,2,4-Trimethylbenzene	50.0	51.2		ug/kg		102	80 - 132	0.3	50
Vinyl chloride	50.0	45.4		ug/kg		91	53 - 142	5	39
Xylenes, total	150	155		ug/kg		104	80 - 130	1	50

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*130*		*67 - 138*
Dibromofluoromethane	*105*		*75 - 125*
Toluene-d8	*99*		*76 - 129*
4-Bromofluorobenzene	*107*		*67 - 147*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2699-MS1 **Client Sample ID: F-03-(9.5-11)**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010244 **Prep Batch: 11F2699_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	0.0379		0.235	0.407		mg/kg		157	29 - 181
Benzene	ND		0.0470	0.0495		mg/kg		105	42 - 141
Bromobenzene	ND		0.0470	0.0558		mg/kg		119	19 - 154
Bromochloromethane	ND		0.0470	0.0484		mg/kg		103	41 - 146
Bromodichloromethane	ND		0.0470	0.0512		mg/kg		109	32 - 155
Bromoform	ND		0.0470	0.0493		mg/kg		105	10 - 155
Bromomethane	ND		0.0470	0.0417		mg/kg		89	10 - 199
1,2-Dibromo-3-chloropropane	ND		0.0470	0.0540		mg/kg		115	10 - 167
2-Butanone	ND		0.235	0.336		mg/kg		143	38 - 161
sec-Butylbenzene	ND		0.0470	0.0573		mg/kg		122	10 - 170
n-Butylbenzene	ND		0.0470	0.0601		mg/kg		128	10 - 183
tert-Butylbenzene	ND		0.0470	0.0551		mg/kg		117	11 - 165
Carbon disulfide	ND		0.0470	0.0469		mg/kg		100	50 - 136
Carbon Tetrachloride	ND		0.0470	0.0502		mg/kg		107	30 - 159
Chlorobenzene	ND		0.0470	0.0499		mg/kg		106	25 - 151
Chlorodibromomethane	ND		0.0470	0.0556		mg/kg		118	27 - 150
Chloroethane	ND		0.0470	0.0455		mg/kg		97	15 - 197
Chloroform	0.000619		0.0470	0.0494		mg/kg		104	33 - 148
Chloromethane	ND		0.0470	0.0404		mg/kg		86	10 - 166
2-Chlorotoluene	ND		0.0470	0.0553		mg/kg		118	25 - 166
4-Chlorotoluene	ND		0.0470	0.0573		mg/kg		122	19 - 163
1,2-Dibromoethane (EDB)	ND		0.0470	0.0564		mg/kg		120	30 - 155
Dibromomethane	ND		0.0470	0.0529		mg/kg		113	30 - 149
1,4-Dichlorobenzene	ND		0.0470	0.0512		mg/kg		109	10 - 170
1,3-Dichlorobenzene	ND		0.0470	0.0512		mg/kg		109	10 - 173
1,2-Dichlorobenzene	ND		0.0470	0.0485		mg/kg		103	10 - 168
Dichlorodifluoromethane	ND		0.0470	0.0367		mg/kg		78	10 - 188
1,1-Dichloroethane	ND		0.0470	0.0514		mg/kg		109	51 - 135
1,2-Dichloroethane	ND		0.0470	0.0538		mg/kg		114	32 - 155
cis-1,2-Dichloroethene	ND		0.0470	0.0521		mg/kg		111	32 - 150
1,1-Dichloroethene	ND		0.0470	0.0484		mg/kg		103	46 - 141
trans-1,2-Dichloroethene	ND		0.0470	0.0508		mg/kg		108	41 - 146
1,3-Dichloropropane	ND		0.0470	0.0544		mg/kg		116	35 - 148
1,2-Dichloropropane	ND		0.0470	0.0466		mg/kg		99	34 - 139
2,2-Dichloropropane	ND		0.0470	0.0497		mg/kg		106	29 - 152
cis-1,3-Dichloropropene	ND		0.0470	0.0548		mg/kg		117	23 - 152
trans-1,3-Dichloropropene	ND		0.0470	0.0550		mg/kg		117	24 - 151
1,1-Dichloropropene	ND		0.0470	0.0505		mg/kg		108	40 - 151
Ethylbenzene	ND		0.0470	0.0505		mg/kg		107	21 - 165
Hexachlorobutadiene	ND		0.0470	0.0508		mg/kg		108	10 - 173
2-Hexanone	ND		0.235	0.307		mg/kg		131	13 - 174
Isopropylbenzene	ND		0.0470	0.0536		mg/kg		114	20 - 139
p-Isopropyltoluene	ND		0.0470	0.0540		mg/kg		115	10 - 164
Methyl tert-Butyl Ether	ND		0.0470	0.0550		mg/kg		117	34 - 154
Methylene Chloride	0.00241		0.0470	0.0659		mg/kg		135	36 - 163
4-Methyl-2-pentanone	ND		0.235	0.312		mg/kg		133	19 - 176
Naphthalene	ND		0.0470	0.0248		mg/kg		53	10 - 160
n-Propylbenzene	ND		0.0470	0.0589		mg/kg		125	16 - 174
Styrene	ND		0.0470	0.00808		mg/kg		17	10 - 177

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2699-MS1 **Client Sample ID: F-03-(9.5-11)**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010244 **Prep Batch: 11F2699_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	ND		0.0470	0.0484		mg/kg		103	31 - 150
1,1,2,2-Tetrachloroethane	ND		0.0470	0.0657		mg/kg		140	27 - 163
Tetrachloroethene	ND		0.0470	0.0490		mg/kg		104	33 - 155
Toluene	ND		0.0470	0.0508		mg/kg		108	45 - 145
1,2,3-Trichlorobenzene	ND		0.0470	0.0372		mg/kg		79	10 - 182
1,2,4-Trichlorobenzene	ND		0.0470	0.0434		mg/kg		92	10 - 175
1,1,2-Trichloroethane	ND		0.0470	0.0552		mg/kg		117	43 - 145
1,1,1-Trichloroethane	ND		0.0470	0.0493		mg/kg		105	39 - 148
Trichloroethene	ND		0.0470	0.0429		mg/kg		91	39 - 150
Trichlorofluoromethane	ND		0.0470	0.0448		mg/kg		95	25 - 174
1,2,3-Trichloropropane	ND	L	0.0470	0.0627		mg/kg		134	10 - 152
1,3,5-Trimethylbenzene	ND		0.0470	0.0555		mg/kg		118	38 - 148
1,2,4-Trimethylbenzene	ND		0.0470	0.0524		mg/kg		111	22 - 164
Vinyl chloride	ND		0.0470	0.0441		mg/kg		94	32 - 163
Xylenes, total	ND		0.141	0.149		mg/kg		106	31 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*123*		*67 - 138*
Dibromofluoromethane	*102*		*75 - 125*
Toluene-d8	*101*		*76 - 129*
4-Bromofluorobenzene	*112*		*67 - 147*

Lab Sample ID: 11F2699-MSD1 **Client Sample ID: F-03-(9.5-11)**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010244 **Prep Batch: 11F2699_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	0.0379		0.232	0.353		mg/kg		136	29 - 181	14	50
Benzene	ND		0.0464	0.0493		mg/kg		106	42 - 141	0.3	50
Bromobenzene	ND		0.0464	0.0548		mg/kg		118	19 - 154	2	50
Bromochloromethane	ND		0.0464	0.0473		mg/kg		102	41 - 146	2	50
Bromodichloromethane	ND		0.0464	0.0517		mg/kg		112	32 - 155	1	50
Bromoform	ND		0.0464	0.0483		mg/kg		104	10 - 155	2	43
Bromomethane	ND		0.0464	0.0470		mg/kg		101	10 - 199	12	46
1,2-Dibromo-3-chloropropane	ND		0.0464	0.0503		mg/kg		108	10 - 167	7	45
2-Butanone	ND		0.232	0.305		mg/kg		131	38 - 161	10	50
sec-Butylbenzene	ND		0.0464	0.0563		mg/kg		121	10 - 170	2	50
n-Butylbenzene	ND		0.0464	0.0584		mg/kg		126	10 - 183	3	50
tert-Butylbenzene	ND		0.0464	0.0544		mg/kg		117	11 - 165	1	50
Carbon disulfide	ND		0.0464	0.0508		mg/kg		109	50 - 136	8	48
Carbon Tetrachloride	ND		0.0464	0.0500		mg/kg		108	30 - 159	0.3	44
Chlorobenzene	ND		0.0464	0.0488		mg/kg		105	25 - 151	2	50
Chlorodibromomethane	ND		0.0464	0.0559		mg/kg		120	27 - 150	0.4	48
Chloroethane	ND		0.0464	0.0461		mg/kg		99	15 - 197	1	50
Chloroform	0.000619		0.0464	0.0497		mg/kg		106	33 - 148	0.6	50
Chloromethane	ND		0.0464	0.0401		mg/kg		87	10 - 166	0.6	44
2-Chlorotoluene	ND		0.0464	0.0565		mg/kg		122	25 - 166	2	50
4-Chlorotoluene	ND		0.0464	0.0568		mg/kg		122	19 - 163	0.9	50
1,2-Dibromoethane (EDB)	ND		0.0464	0.0561		mg/kg		121	30 - 155	0.6	45

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2699-MSD1 **Client Sample ID: F-03-(9.5-11)**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010244 **Prep Batch: 11F2699_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dibromomethane	ND		0.0464	0.0518		mg/kg		112	30 - 149	2	50
1,4-Dichlorobenzene	ND		0.0464	0.0514		mg/kg		111	10 - 170	0.4	50
1,3-Dichlorobenzene	ND		0.0464	0.0507		mg/kg		109	10 - 173	1	50
1,2-Dichlorobenzene	ND		0.0464	0.0482		mg/kg		104	10 - 168	0.6	50
Dichlorodifluoromethane	ND		0.0464	0.0347		mg/kg		75	10 - 188	6	50
1,1-Dichloroethane	ND		0.0464	0.0510		mg/kg		110	51 - 135	0.9	50
1,2-Dichloroethane	ND		0.0464	0.0532		mg/kg		115	32 - 155	1	50
cis-1,2-Dichloroethene	ND		0.0464	0.0514		mg/kg		111	32 - 150	1	50
1,1-Dichloroethene	ND		0.0464	0.0509		mg/kg		110	46 - 141	5	50
trans-1,2-Dichloroethene	ND		0.0464	0.0509		mg/kg		110	41 - 146	0.2	40
1,3-Dichloropropane	ND		0.0464	0.0539		mg/kg		116	35 - 148	0.9	42
1,2-Dichloropropane	ND		0.0464	0.0473		mg/kg		102	34 - 139	1	50
2,2-Dichloropropane	ND		0.0464	0.0500		mg/kg		108	29 - 152	0.5	39
cis-1,3-Dichloropropene	ND		0.0464	0.0584		mg/kg		126	23 - 152	6	50
trans-1,3-Dichloropropene	ND		0.0464	0.0552		mg/kg		119	24 - 151	0.3	48
1,1-Dichloropropene	ND		0.0464	0.0510		mg/kg		110	40 - 151	0.9	50
Ethylbenzene	ND		0.0464	0.0502		mg/kg		108	21 - 165	0.5	50
Hexachlorobutadiene	ND		0.0464	0.0514		mg/kg		111	10 - 173	1	50
2-Hexanone	ND		0.232	0.285		mg/kg		123	13 - 174	7	50
Isopropylbenzene	ND		0.0464	0.0531		mg/kg		115	20 - 139	0.9	50
p-Isopropyltoluene	ND		0.0464	0.0528		mg/kg		114	10 - 164	2	50
Methyl tert-Butyl Ether	ND		0.0464	0.0533		mg/kg		115	34 - 154	3	50
Methylene Chloride	0.00241		0.0464	0.0645		mg/kg		134	36 - 163	2	50
4-Methyl-2-pentanone	ND		0.232	0.281		mg/kg		121	19 - 176	10	45
Naphthalene	ND		0.0464	0.0242		mg/kg		52	10 - 160	3	50
n-Propylbenzene	ND		0.0464	0.0581		mg/kg		125	16 - 174	1	50
Styrene	ND		0.0464	0.00442	PX	mg/kg		10	10 - 177	58	50
1,1,1,2-Tetrachloroethane	ND		0.0464	0.0480		mg/kg		104	31 - 150	0.8	50
1,1,2,2-Tetrachloroethane	ND		0.0464	0.0632		mg/kg		136	27 - 163	4	45
Tetrachloroethene	ND		0.0464	0.0479		mg/kg		103	33 - 155	2	50
Toluene	ND		0.0464	0.0505		mg/kg		109	45 - 145	0.7	50
1,2,3-Trichlorobenzene	ND		0.0464	0.0379		mg/kg		82	10 - 182	2	50
1,2,4-Trichlorobenzene	ND		0.0464	0.0441		mg/kg		95	10 - 175	1	50
1,1,2-Trichloroethane	ND		0.0464	0.0553		mg/kg		119	43 - 145	0.3	50
1,1,1-Trichloroethane	ND		0.0464	0.0498		mg/kg		107	39 - 148	1	41
Trichloroethene	ND		0.0464	0.0426		mg/kg		92	39 - 150	0.6	50
Trichlorofluoromethane	ND		0.0464	0.0458		mg/kg		99	25 - 174	2	47
1,2,3-Trichloropropane	ND	L	0.0464	0.0588		mg/kg		127	10 - 152	6	47
1,3,5-Trimethylbenzene	ND		0.0464	0.0548		mg/kg		118	38 - 148	1	50
1,2,4-Trimethylbenzene	ND		0.0464	0.0500		mg/kg		108	22 - 164	5	50
Vinyl chloride	ND		0.0464	0.0432		mg/kg		93	32 - 163	2	39
Xylenes, total	ND		0.139	0.146		mg/kg		105	31 - 159	2	50

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*120*		*67 - 138*
Dibromofluoromethane	*103*		*75 - 125*
Toluene-d8	*101*		*76 - 129*
4-Bromofluorobenzene	*112*		*67 - 147*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Lab Sample ID: 11F2595-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Acenaphthylene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Anthracene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Benzo (a) anthracene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Benzo (a) pyrene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Benzo (b) fluoranthene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Benzo (g,h,i) perylene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Benzo (k) fluoranthene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
4-Bromophenyl phenyl ether	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Butyl benzyl phthalate	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Carbazole	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
4-Chloro-3-methylphenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
4-Chloroaniline	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Bis(2-chloroethoxy)methane	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Bis(2-chloroethyl)ether	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Bis(2-chloroisopropyl)ether	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2-Chloronaphthalene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2-Chlorophenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
4-Chlorophenyl phenyl ether	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Chrysene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Dibenz (a,h) anthracene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Dibenzofuran	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Di-n-butyl phthalate	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
1,4-Dichlorobenzene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
1,2-Dichlorobenzene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
1,3-Dichlorobenzene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
3,3-Dichlorobenzidine	ND		0.667		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2,4-Dichlorophenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Diethyl phthalate	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2,4-Dimethylphenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Dimethyl phthalate	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
4,6-Dinitro-2-methylphenol	ND		0.833		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2,4-Dinitrophenol	ND		0.833		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2,6-Dinitrotoluene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2,4-Dinitrotoluene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Di-n-octyl phthalate	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Bis(2-ethylhexyl)phthalate	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Fluoranthene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Fluorene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Hexachlorobenzene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Hexachlorobutadiene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Hexachlorocyclopentadiene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Hexachloroethane	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Isophorone	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2-Methylnaphthalene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2-Methylphenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
3/4-Methylphenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Naphthalene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F2595-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.833		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2-Nitroaniline	ND		0.833		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
4-Nitroaniline	ND		0.833		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Nitrobenzene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
4-Nitrophenol	ND		0.833		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2-Nitrophenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
N-Nitrosodiphenylamine	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
N-Nitrosodi-n-propylamine	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Pentachlorophenol	ND		0.833		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Phenanthrene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Phenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Pyrene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Pyridine	ND		0.667		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
1,2,4-Trichlorobenzene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
1-Methylnaphthalene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2,4,6-Trichlorophenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2,4,5-Trichlorophenol	ND		0.833		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*90*		*18 - 120*	*06/11/11 08:20*	*06/13/11 22:09*	*1.00*
2,4,6-Tribromophenol	*68*		*19 - 120*	*06/11/11 08:20*	*06/13/11 22:09*	*1.00*
Phenol-d5	*82*		*18 - 120*	*06/11/11 08:20*	*06/13/11 22:09*	*1.00*
2-Fluorobiphenyl	*66*		*14 - 120*	*06/11/11 08:20*	*06/13/11 22:09*	*1.00*
2-Fluorophenol	*79*		*17 - 120*	*06/11/11 08:20*	*06/13/11 22:09*	*1.00*
Nitrobenzene-d5	*71*		*17 - 120*	*06/11/11 08:20*	*06/13/11 22:09*	*1.00*

Lab Sample ID: 11F2595-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.67	1.23		mg/kg		74	49 - 120
Acenaphthylene	1.67	1.25		mg/kg		75	52 - 120
Anthracene	1.67	1.29		mg/kg		77	58 - 120
Benzo (a) anthracene	1.67	1.34		mg/kg		80	57 - 120
Benzo (a) pyrene	1.67	1.34		mg/kg		80	55 - 120
Benzo (b) fluoranthene	1.67	1.27		mg/kg		76	51 - 123
Benzo (g,h,i) perylene	1.67	1.30		mg/kg		78	49 - 121
Benzo (k) fluoranthene	1.67	1.34		mg/kg		80	42 - 129
4-Bromophenyl phenyl ether	1.67	1.34		mg/kg		80	49 - 120
Butyl benzyl phthalate	1.67	1.54		mg/kg		92	59 - 124
Carbazole	1.67	1.34		mg/kg		80	54 - 120
4-Chloro-3-methylphenol	1.67	1.45		mg/kg		87	49 - 120
4-Chloroaniline	1.67	1.32		mg/kg		79	41 - 120
Bis(2-chloroethoxy)methane	1.67	1.36		mg/kg		81	37 - 120
Bis(2-chloroethyl)ether	1.67	1.41		mg/kg		85	29 - 120
Bis(2-chloroisopropyl)ether	1.67	1.44		mg/kg		86	28 - 120
2-Chloronaphthalene	1.67	1.11		mg/kg		67	45 - 120
2-Chlorophenol	1.67	1.46		mg/kg		88	42 - 120

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F2595-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4-Chlorophenyl phenyl ether	1.67	1.30		mg/kg		78	52 - 120
Chrysene	1.67	1.26		mg/kg		76	55 - 120
Dibenz (a,h) anthracene	1.67	1.31		mg/kg		78	50 - 123
Dibenzofuran	1.67	1.22		mg/kg		73	54 - 120
Di-n-butyl phthalate	1.67	1.38		mg/kg		82	58 - 120
1,4-Dichlorobenzene	1.67	1.23		mg/kg		74	15 - 120
1,2-Dichlorobenzene	1.67	1.26		mg/kg		76	17 - 120
1,3-Dichlorobenzene	1.67	1.24		mg/kg		74	13 - 120
3,3-Dichlorobenzidine	1.67	1.36		mg/kg		82	54 - 120
2,4-Dichlorophenol	1.67	1.34		mg/kg		80	43 - 120
Diethyl phthalate	1.67	1.30		mg/kg		78	52 - 120
2,4-Dimethylphenol	1.67	1.26		mg/kg		76	47 - 120
Dimethyl phthalate	1.67	1.28		mg/kg		77	55 - 120
4,6-Dinitro-2-methylphenol	1.67	1.37		mg/kg		82	27 - 134
2,4-Dinitrophenol	1.67	1.19		mg/kg		71	15 - 145
2,6-Dinitrotoluene	1.67	1.36		mg/kg		82	56 - 120
2,4-Dinitrotoluene	1.67	1.29		mg/kg		78	55 - 122
Di-n-octyl phthalate	1.67	1.55		mg/kg		93	48 - 131
Bis(2-ethylhexyl)phthalate	1.67	1.56		mg/kg		94	51 - 127
Fluoranthene	1.67	1.29		mg/kg		77	58 - 120
Fluorene	1.67	1.26		mg/kg		76	54 - 120
Hexachlorobenzene	1.67	1.31		mg/kg		79	56 - 120
Hexachlorobutadiene	1.67	1.35		mg/kg		81	19 - 120
Hexachlorocyclopentadiene	1.67	1.06		mg/kg		63	11 - 120
Hexachloroethane	1.67	1.40		mg/kg		84	14 - 120
Indeno (1,2,3-cd) pyrene	1.67	1.29		mg/kg		77	50 - 122
Isophorone	1.67	1.28		mg/kg		77	43 - 120
2-Methylnaphthalene	1.67	1.24		mg/kg		75	36 - 120
2-Methylphenol	1.67	1.38		mg/kg		83	47 - 120
3/4-Methylphenol	1.67	1.45		mg/kg		87	53 - 135
Naphthalene	1.67	1.31		mg/kg		79	28 - 120
3-Nitroaniline	1.67	1.37		mg/kg		82	54 - 120
2-Nitroaniline	1.67	1.37		mg/kg		82	59 - 120
4-Nitroaniline	1.67	1.35		mg/kg		81	55 - 121
Nitrobenzene	1.67	1.16		mg/kg		70	30 - 120
4-Nitrophenol	1.67	1.39		mg/kg		84	44 - 133
2-Nitrophenol	1.67	1.37		mg/kg		82	36 - 120
N-Nitrosodiphenylamine	1.67	1.54		mg/kg		93	56 - 120
N-Nitrosodi-n-propylamine	1.67	1.50		mg/kg		90	45 - 120
Pentachlorophenol	1.67	1.54		mg/kg		92	42 - 135
Phenanthrene	1.67	1.34		mg/kg		80	56 - 120
Phenol	1.67	1.48		mg/kg		89	45 - 120
Pyrene	1.67	1.33		mg/kg		80	56 - 120
Pyridine	1.67	1.12		mg/kg		67	26 - 120
1,2,4-Trichlorobenzene	1.67	1.10		mg/kg		66	22 - 120
1-Methylnaphthalene	1.67	1.12		mg/kg		67	36 - 120
2,4,6-Trichlorophenol	1.67	1.32		mg/kg		79	50 - 120
2,4,5-Trichlorophenol	1.67	1.23		mg/kg		74	54 - 120

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F2595-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*82*		*18 - 120*
2,4,6-Tribromophenol	*64*		*19 - 120*
Phenol-d5	*75*		*18 - 120*
2-Fluorobiphenyl	*62*		*14 - 120*
2-Fluorophenol	*72*		*17 - 120*
Nitrobenzene-d5	*63*		*17 - 120*

Lab Sample ID: 11F2595-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene			1.67	1.10		mg/kg		66	49 - 120	11	40
Acenaphthylene			1.67	1.13		mg/kg		68	52 - 120	10	30
Anthracene			1.67	1.15		mg/kg		69	58 - 120	11	50
Benzo (a) anthracene			1.67	1.19		mg/kg		71	57 - 120	12	30
Benzo (a) pyrene			1.67	1.17		mg/kg		70	55 - 120	13	33
Benzo (b) fluoranthene			1.67	1.10		mg/kg		66	51 - 123	14	42
Benzo (g,h,i) perylene			1.67	1.12		mg/kg		67	49 - 121	15	32
Benzo (k) fluoranthene			1.67	1.18		mg/kg		71	42 - 129	12	39
4-Bromophenyl phenyl ether			1.67	1.12		mg/kg		67	49 - 120	18	31
Butyl benzyl phthalate			1.67	1.36		mg/kg		82	59 - 124	12	37
Carbazole			1.67	1.22		mg/kg		73	54 - 120	10	29
4-Chloro-3-methylphenol			1.67	1.28		mg/kg		76	49 - 120	13	34
4-Chloroaniline			1.67	1.16		mg/kg		70	41 - 120	13	43
Bis(2-chloroethoxy)methane			1.67	1.18		mg/kg		71	37 - 120	14	41
Bis(2-chloroethyl)ether			1.67	1.22		mg/kg		73	29 - 120	15	41
Bis(2-chloroisopropyl)ether			1.67	1.25		mg/kg		75	28 - 120	14	50
2-Chloronaphthalene			1.67	0.971		mg/kg		58	45 - 120	13	34
2-Chlorophenol			1.67	1.25		mg/kg		75	42 - 120	16	45
4-Chlorophenyl phenyl ether			1.67	1.15		mg/kg		69	52 - 120	12	31
Chrysene			1.67	1.13		mg/kg		68	55 - 120	11	34
Dibenz (a,h) anthracene			1.67	1.13		mg/kg		68	50 - 123	15	31
Dibenzofuran			1.67	1.11		mg/kg		67	54 - 120	9	39
Di-n-butyl phthalate			1.67	1.25		mg/kg		75	58 - 120	10	29
1,4-Dichlorobenzene			1.67	1.06		mg/kg		64	15 - 120	15	50
1,2-Dichlorobenzene			1.67	1.09		mg/kg		65	17 - 120	15	50
1,3-Dichlorobenzene			1.67	1.06		mg/kg		64	13 - 120	15	50
3,3-Dichlorobenzidine			1.67	1.22		mg/kg		73	54 - 120	11	35
2,4-Dichlorophenol			1.67	1.17		mg/kg		70	43 - 120	14	35
Diethyl phthalate			1.67	1.20		mg/kg		72	52 - 120	8	33
2,4-Dimethylphenol			1.67	1.20		mg/kg		72	47 - 120	4	50
Dimethyl phthalate			1.67	1.16		mg/kg		70	55 - 120	10	31
4,6-Dinitro-2-methylphenol			1.67	1.20		mg/kg		72	27 - 134	14	50
2,4-Dinitrophenol			1.67	1.14		mg/kg		69	15 - 145	4	50
2,6-Dinitrotoluene			1.67	1.20		mg/kg		72	56 - 120	13	34
2,4-Dinitrotoluene			1.67	1.19		mg/kg		72	55 - 122	8	31
Di-n-octyl phthalate			1.67	1.40		mg/kg		84	48 - 131	10	31
Bis(2-ethylhexyl)phthalate			1.67	1.38		mg/kg		83	51 - 127	12	32

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F2595-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Fluoranthene	1.67	1.21		mg/kg		73	58 - 120	6	35
Fluorene	1.67	1.13		mg/kg		68	54 - 120	11	37
Hexachlorobenzene	1.67	1.12		mg/kg		67	56 - 120	16	28
Hexachlorobutadiene	1.67	1.15		mg/kg		69	19 - 120	16	50
Hexachlorocyclopentadiene	1.67	0.863		mg/kg		52	11 - 120	20	50
Hexachloroethane	1.67	1.22		mg/kg		73	14 - 120	14	50
Indeno (1,2,3-cd) pyrene	1.67	1.12		mg/kg		67	50 - 122	14	32
Isophorone	1.67	1.14		mg/kg		68	43 - 120	11	36
2-Methylnaphthalene	1.67	1.10		mg/kg		66	36 - 120	12	50
2-Methylphenol	1.67	1.25		mg/kg		75	47 - 120	10	41
3/4-Methylphenol	1.67	1.31		mg/kg		79	53 - 135	10	39
Naphthalene	1.67	1.17		mg/kg		70	28 - 120	12	34
3-Nitroaniline	1.67	1.23		mg/kg		74	54 - 120	11	35
2-Nitroaniline	1.67	1.21		mg/kg		73	59 - 120	12	28
4-Nitroaniline	1.67	1.23		mg/kg		74	55 - 121	10	36
Nitrobenzene	1.67	0.998		mg/kg		60	30 - 120	15	44
4-Nitrophenol	1.67	1.24		mg/kg		74	44 - 133	12	47
2-Nitrophenol	1.67	1.17		mg/kg		70	36 - 120	16	43
N-Nitrosodiphenylamine	1.67	1.34		mg/kg		81	56 - 120	14	30
N-Nitrosodi-n-propylamine	1.67	1.31		mg/kg		78	45 - 120	14	41
Pentachlorophenol	1.67	1.40		mg/kg		84	42 - 135	10	32
Phenanthrene	1.67	1.18		mg/kg		71	56 - 120	12	32
Phenol	1.67	1.32		mg/kg		79	45 - 120	12	42
Pyrene	1.67	1.14		mg/kg		69	56 - 120	15	40
Pyridine	1.67	1.04		mg/kg		63	26 - 120	7	50
1,2,4-Trichlorobenzene	1.67	0.932		mg/kg		56	22 - 120	17	46
1-Methylnaphthalene	1.67	1.00		mg/kg		60	36 - 120	11	45
2,4,6-Trichlorophenol	1.67	1.12		mg/kg		67	50 - 120	17	34
2,4,5-Trichlorophenol	1.67	1.06		mg/kg		64	54 - 120	15	33

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
Terphenyl-d14	*70*		*18 - 120*
2,4,6-Tribromophenol	*55*		*19 - 120*
Phenol-d5	*65*		*18 - 120*
2-Fluorobiphenyl	*53*		*14 - 120*
2-Fluorophenol	*60*		*17 - 120*
Nitrobenzene-d5	*53*		*17 - 120*

Lab Sample ID: 11F2595-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	ND		1.65	1.20		mg/kg		73	42 - 120
Acenaphthylene	0.0350		1.65	1.21		mg/kg		72	32 - 120
Anthracene	0.0550		1.65	1.45		mg/kg		85	10 - 200
Benzo (a) anthracene	0.151		1.65	1.37		mg/kg		74	41 - 120
Benzo (a) pyrene	0.134		1.65	1.31		mg/kg		72	33 - 121
Benzo (b) fluoranthene	0.277		1.65	1.51		mg/kg		75	26 - 137

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F2595-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Benzo (g,h,i) perylene	0.105		1.65	1.26		mg/kg		70	21 - 124
Benzo (k) fluoranthene	0.143		1.65	1.24		mg/kg		67	14 - 140
4-Bromophenyl phenyl ether	ND		1.65	1.28		mg/kg		78	39 - 120
Butyl benzyl phthalate	ND		1.65	1.53		mg/kg		93	47 - 124
Carbazole	ND		1.65	1.28		mg/kg		78	37 - 120
4-Chloro-3-methylphenol	ND		1.65	1.46		mg/kg		89	38 - 120
4-Chloroaniline	ND		1.65	1.18		mg/kg		72	20 - 120
Bis(2-chloroethoxy)methane	ND		1.65	1.36		mg/kg		83	32 - 120
Bis(2-chloroethyl)ether	ND		1.65	1.35		mg/kg		82	25 - 120
Bis(2-chloroisopropyl)ether	ND		1.65	1.44		mg/kg		88	23 - 120
2-Chloronaphthalene	ND		1.65	1.07		mg/kg		65	39 - 120
2-Chlorophenol	ND		1.65	1.47		mg/kg		89	28 - 120
4-Chlorophenyl phenyl ether	ND		1.65	1.26		mg/kg		76	43 - 120
Chrysene	0.276		1.65	1.45		mg/kg		71	28 - 123
Dibenz (a,h) anthracene	0.0527		1.65	1.24		mg/kg		72	25 - 127
Dibenzofuran	0.0540		1.65	1.23		mg/kg		72	40 - 120
Di-n-butyl phthalate	ND		1.65	1.34		mg/kg		81	32 - 124
1,4-Dichlorobenzene	ND		1.65	1.23		mg/kg		75	10 - 120
1,2-Dichlorobenzene	ND		1.65	1.25		mg/kg		76	10 - 120
1,3-Dichlorobenzene	ND		1.65	1.23		mg/kg		75	10 - 120
3,3-Dichlorobenzidine	ND		1.65	0.493		mg/kg		30	13 - 120
2,4-Dichlorophenol	ND		1.65	1.41		mg/kg		85	33 - 120
Diethyl phthalate	ND		1.65	1.22		mg/kg		74	34 - 120
2,4-Dimethylphenol	ND		1.65	1.41		mg/kg		86	29 - 120
Dimethyl phthalate	ND		1.65	1.18		mg/kg		72	43 - 120
4,6-Dinitro-2-methylphenol	ND		1.65	1.08		mg/kg		66	10 - 134
2,4-Dinitrophenol	ND		1.65	0.746		mg/kg		45	10 - 145
2,6-Dinitrotoluene	ND		1.65	1.27		mg/kg		77	43 - 120
2,4-Dinitrotoluene	ND		1.65	1.22		mg/kg		74	42 - 122
Di-n-octyl phthalate	ND		1.65	1.70		mg/kg		103	34 - 135
Bis(2-ethylhexyl)phthalate	0.210		1.65	1.79		mg/kg		96	40 - 127
Fluoranthene	0.226		1.65	1.40		mg/kg		71	38 - 120
Fluorene	0.0360		1.65	1.23		mg/kg		72	41 - 120
Hexachlorobenzene	ND		1.65	1.26		mg/kg		76	44 - 120
Hexachlorobutadiene	ND		1.65	1.44		mg/kg		88	17 - 120
Hexachlorocyclopentadiene	ND		1.65	0.973		mg/kg		59	10 - 120
Hexachloroethane	ND		1.65	1.41		mg/kg		86	10 - 120
Indeno (1,2,3-cd) pyrene	0.0939		1.65	1.26		mg/kg		71	25 - 123
Isophorone	ND		1.65	1.25		mg/kg		76	32 - 120
2-Methylnaphthalene	0.107		1.65	1.40		mg/kg		79	11 - 120
2-Methylphenol	ND		1.65	1.41		mg/kg		86	41 - 120
3/4-Methylphenol	ND		1.65	1.46		mg/kg		89	36 - 127
Naphthalene	0.0576		1.65	1.39		mg/kg		81	25 - 120
3-Nitroaniline	ND		1.65	1.13		mg/kg		69	36 - 120
2-Nitroaniline	ND		1.65	1.31		mg/kg		80	46 - 120
4-Nitroaniline	ND		1.65	1.06		mg/kg		65	35 - 121
Nitrobenzene	ND		1.65	1.16		mg/kg		71	26 - 120
4-Nitrophenol	ND		1.65	1.26		mg/kg		76	19 - 136
2-Nitrophenol	ND		1.65	1.44		mg/kg		87	26 - 120
N-Nitrosodiphenylamine	ND		1.65	1.49		mg/kg		91	43 - 120

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F2595-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
N-Nitrosodi-n-propylamine	ND		1.65	1.44		mg/kg		88	34 - 120
Pentachlorophenol	ND		1.65	1.29		mg/kg		78	15 - 135
Phenanthrene	0.239		1.65	1.39		mg/kg		70	37 - 120
Phenol	ND		1.65	1.49		mg/kg		90	38 - 120
Pyrene	0.219		1.65	1.41		mg/kg		73	29 - 125
Pyridine	ND		1.65	1.15		mg/kg		70	10 - 120
1,2,4-Trichlorobenzene	ND		1.65	1.15		mg/kg		70	22 - 120
1-Methylnaphthalene	0.104		1.65	1.25		mg/kg		69	19 - 120
2,4,6-Trichlorophenol	ND		1.65	1.29		mg/kg		78	32 - 120
2,4,5-Trichlorophenol	ND		1.65	1.15		mg/kg		70	39 - 120

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
Terphenyl-d14	*79*		*18 - 120*
2,4,6-Tribromophenol	*63*		*19 - 120*
Phenol-d5	*76*		*18 - 120*
2-Fluorobiphenyl	*59*		*14 - 120*
2-Fluorophenol	*72*		*17 - 120*
Nitrobenzene-d5	*65*		*17 - 120*

Lab Sample ID: 11F2595-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		1.64	1.10		mg/kg		67	42 - 120	8	40
Acenaphthylene	0.0350		1.64	1.11		mg/kg		65	32 - 120	9	30
Anthracene	0.0550		1.64	1.12		mg/kg		65	10 - 200	26	50
Benzo (a) anthracene	0.151		1.64	1.31		mg/kg		71	41 - 120	4	30
Benzo (a) pyrene	0.134		1.64	1.28		mg/kg		70	33 - 121	3	33
Benzo (b) fluoranthene	0.277		1.64	1.65		mg/kg		84	26 - 137	9	42
Benzo (g,h,i) perylene	0.105		1.64	1.23		mg/kg		69	21 - 124	2	32
Benzo (k) fluoranthene	0.143		1.64	1.02		mg/kg		53	14 - 140	20	39
4-Bromophenyl phenyl ether	ND		1.64	1.18		mg/kg		72	39 - 120	8	31
Butyl benzyl phthalate	ND		1.64	1.44		mg/kg		88	47 - 124	6	37
Carbazole	ND		1.64	1.12		mg/kg		68	37 - 120	13	29
4-Chloro-3-methylphenol	ND		1.64	1.27		mg/kg		77	38 - 120	14	34
4-Chloroaniline	ND		1.64	0.992		mg/kg		60	20 - 120	17	43
Bis(2-chloroethoxy)methane	ND		1.64	1.24		mg/kg		75	32 - 120	9	41
Bis(2-chloroethyl)ether	ND		1.64	1.22		mg/kg		74	25 - 120	10	41
Bis(2-chloroisopropyl)ether	ND		1.64	1.27		mg/kg		78	23 - 120	12	50
2-Chloronaphthalene	ND		1.64	0.985		mg/kg		60	39 - 120	8	34
2-Chlorophenol	ND		1.64	1.27		mg/kg		77	28 - 120	15	45
4-Chlorophenyl phenyl ether	ND		1.64	1.11		mg/kg		68	43 - 120	12	31
Chrysene	0.276		1.64	1.39		mg/kg		68	28 - 123	4	34
Dibenz (a,h) anthracene	0.0527		1.64	1.17		mg/kg		68	25 - 127	6	31
Dibenzofuran	0.0540		1.64	1.12		mg/kg		65	40 - 120	10	39
Di-n-butyl phthalate	ND		1.64	1.19		mg/kg		72	32 - 124	12	29
1,4-Dichlorobenzene	ND		1.64	1.05		mg/kg		64	10 - 120	16	50
1,2-Dichlorobenzene	ND		1.64	1.09		mg/kg		66	10 - 120	14	50

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F2595-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,3-Dichlorobenzene	ND		1.64	1.08		mg/kg		66	10 - 120	13	50
3,3-Dichlorobenzidine	ND		1.64	0.297	M8 R2	mg/kg		18	13 - 120	50	35
2,4-Dichlorophenol	ND		1.64	1.21		mg/kg		74	33 - 120	15	35
Diethyl phthalate	ND		1.64	1.10		mg/kg		67	34 - 120	11	33
2,4-Dimethylphenol	ND		1.64	1.22		mg/kg		74	29 - 120	14	50
Dimethyl phthalate	ND		1.64	1.08		mg/kg		66	43 - 120	9	31
4,6-Dinitro-2-methylphenol	ND		1.64	0.872		mg/kg		53	10 - 134	21	50
2,4-Dinitrophenol	ND		1.64	0.601		mg/kg		37	10 - 145	22	50
2,6-Dinitrotoluene	ND		1.64	1.12		mg/kg		68	43 - 120	13	34
2,4-Dinitrotoluene	ND		1.64	1.05		mg/kg		64	42 - 122	14	31
Di-n-octyl phthalate	ND		1.64	1.48		mg/kg		90	34 - 135	13	31
Bis(2-ethylhexyl)phthalate	0.210		1.64	1.57		mg/kg		83	40 - 127	13	32
Fluoranthene	0.226		1.64	1.19		mg/kg		59	38 - 120	16	35
Fluorene	0.0360		1.64	1.10		mg/kg		65	41 - 120	11	37
Hexachlorobenzene	ND		1.64	1.16		mg/kg		71	44 - 120	8	28
Hexachlorobutadiene	ND		1.64	1.28		mg/kg		78	17 - 120	12	50
Hexachlorocyclopentadiene	ND		1.64	0.841		mg/kg		51	10 - 120	15	50
Hexachloroethane	ND		1.64	1.24		mg/kg		75	10 - 120	13	50
Indeno (1,2,3-cd) pyrene	0.0939		1.64	1.21		mg/kg		68	25 - 123	3	32
Isophorone	ND		1.64	1.15		mg/kg		70	32 - 120	8	36
2-Methylnaphthalene	0.107		1.64	1.22		mg/kg		68	11 - 120	14	50
2-Methylphenol	ND		1.64	1.22		mg/kg		74	41 - 120	15	41
3/4-Methylphenol	ND		1.64	1.28		mg/kg		78	36 - 127	13	39
Naphthalene	0.0576		1.64	1.23		mg/kg		71	25 - 120	12	42
3-Nitroaniline	ND		1.64	0.974		mg/kg		59	36 - 120	15	35
2-Nitroaniline	ND		1.64	1.20		mg/kg		73	46 - 120	9	28
4-Nitroaniline	ND		1.64	0.854		mg/kg		52	35 - 121	22	36
Nitrobenzene	ND		1.64	1.08		mg/kg		66	26 - 120	8	44
4-Nitrophenol	ND		1.64	1.07		mg/kg		65	19 - 136	16	47
2-Nitrophenol	ND		1.64	1.29		mg/kg		78	26 - 120	11	43
N-Nitrosodiphenylamine	ND		1.64	1.39		mg/kg		85	43 - 120	7	30
N-Nitrosodi-n-propylamine	ND		1.64	1.26		mg/kg		76	34 - 120	14	41
Pentachlorophenol	ND		1.64	1.07		mg/kg		65	15 - 135	18	32
Phenanthrene	0.239		1.64	1.27		mg/kg		63	37 - 120	9	32
Phenol	ND		1.64	1.28		mg/kg		78	38 - 120	15	42
Pyrene	0.219		1.64	1.38		mg/kg		71	29 - 125	3	40
Pyridine	ND		1.64	1.05		mg/kg		64	10 - 120	9	50
1,2,4-Trichlorobenzene	ND		1.64	1.03		mg/kg		63	22 - 120	11	46
1-Methylnaphthalene	0.104		1.64	1.07		mg/kg		59	19 - 120	15	45
2,4,6-Trichlorophenol	ND		1.64	1.19		mg/kg		72	32 - 120	9	34
2,4,5-Trichlorophenol	ND		1.64	1.06		mg/kg		64	39 - 120	9	33

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Terphenyl-d14	*70*		*18 - 120*
2,4,6-Tribromophenol	*55*		*19 - 120*
Phenol-d5	*63*		*18 - 120*
2-Fluorobiphenyl	*54*		*14 - 120*
2-Fluorophenol	*62*		*17 - 120*
Nitrobenzene-d5	*59*		*17 - 120*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Lab Sample ID: 11F2601-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010436 **Prep Batch: 11F2601_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		4.00		mg/kg		06/13/11 09:25	06/13/11 21:27	1.00
TPH - Oil Range	ND		4.00		mg/kg		06/13/11 09:25	06/13/11 21:27	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*53 - 140*	*06/13/11 09:25*	*06/13/11 21:27*	*1.00*

Lab Sample ID: 11F2601-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010436 **Prep Batch: 11F2601_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Diesel			40.0	37.5		mg/kg		94	65 - 127		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*82*		*53 - 140*

Lab Sample ID: 11F2601-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010436 **Prep Batch: 11F2601_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Diesel	13.5		38.8	40.0		mg/kg		68	23 - 138		

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
o-Terphenyl	*79*		*53 - 140*

Lab Sample ID: 11F2601-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010436 **Prep Batch: 11F2601_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diesel	13.5		39.7	48.6		mg/kg		89	23 - 138	20	40

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
o-Terphenyl	*73*		*53 - 140*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Lab Sample ID: 11F2578-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010364 **Prep Batch: 11F2578_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0333		mg/kg		06/11/11 07:20	06/13/11 17:16	1.00
PCB-1221	ND		0.0333		mg/kg		06/11/11 07:20	06/13/11 17:16	1.00
PCB-1232	ND		0.0333		mg/kg		06/11/11 07:20	06/13/11 17:16	1.00
PCB-1242	ND		0.0333		mg/kg		06/11/11 07:20	06/13/11 17:16	1.00
PCB-1248	ND		0.0333		mg/kg		06/11/11 07:20	06/13/11 17:16	1.00

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A (Continued)

Lab Sample ID: 11F2578-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010364 **Prep Batch: 11F2578_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		0.0333		mg/kg		06/11/11 07:20	06/13/11 17:16	1.00
PCB-1260	ND		0.0333		mg/kg		06/11/11 07:20	06/13/11 17:16	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*76*		*19 - 147*	*06/11/11 07:20*	*06/13/11 17:16*	*1.00*
Decachlorobiphenyl	*120*		*20 - 150*	*06/11/11 07:20*	*06/13/11 17:16*	*1.00*

Lab Sample ID: 11F2578-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010364 **Prep Batch: 11F2578_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
PCB-1016	0.167	0.163		mg/kg		98	64 - 122
PCB-1260	0.167	0.170		mg/kg		102	56 - 150

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-meta-xylene	*96*		*19 - 147*
Decachlorobiphenyl	*120*		*20 - 150*

Lab Sample ID: 11F2578-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010364 **Prep Batch: 11F2578_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
PCB-1016	ND		0.165	0.136		mg/kg		83	20 - 175
PCB-1260	ND		0.165	0.146		mg/kg		89	51 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
Tetrachloro-meta-xylene	*62*		*19 - 147*
Decachlorobiphenyl	*98*		*20 - 150*

Lab Sample ID: 11F2578-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010364 **Prep Batch: 11F2578_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
PCB-1016	ND		0.166	0.146		mg/kg		88	20 - 175	7	50
PCB-1260	ND		0.166	0.164		mg/kg		99	51 - 159	11	36

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Tetrachloro-meta-xylene	*84*		*19 - 147*
Decachlorobiphenyl	*116*		*20 - 150*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Lab Sample ID: 11F2613-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2613 **Prep Batch: 11F2613_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.952		mg/kg		06/10/11 10:06	06/10/11 19:34	1.00
Barium	ND		1.90		mg/kg		06/10/11 10:06	06/10/11 19:34	1.00
Cadmium	ND		0.952		mg/kg		06/10/11 10:06	06/10/11 19:34	1.00
Chromium	ND		0.952		mg/kg		06/10/11 10:06	06/10/11 19:34	1.00
Lead	ND		0.952		mg/kg		06/10/11 10:06	06/10/11 19:34	1.00
Selenium	ND		1.90		mg/kg		06/10/11 10:06	06/10/11 19:34	1.00
Silver	ND		0.952		mg/kg		06/10/11 10:06	06/10/11 19:34	1.00

Lab Sample ID: 11F2613-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2613 **Prep Batch: 11F2613_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	19.3	18.3		mg/kg		95	80 - 120
Barium	771	784		mg/kg		102	80 - 120
Cadmium	19.3	18.8		mg/kg		98	80 - 120
Chromium	77.1	74.0		mg/kg		96	80 - 120
Lead	19.3	19.6		mg/kg		102	80 - 120
Selenium	19.3	18.7		mg/kg		97	80 - 120
Silver	19.3	18.0		mg/kg		93	75 - 125

Lab Sample ID: 11F2613-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2613 **Prep Batch: 11F2613_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	15.4		20.0	33.1		mg/kg		89	75 - 125
Barium	709		798	1310		mg/kg		76	75 - 125
Cadmium	28.9		20.0	59.4	M7	mg/kg		153	75 - 125
Chromium	213		79.8	216	MHA	mg/kg		4	75 - 125
Lead	2000		20.0	2020		mg/kg		122	75 - 125
Selenium	ND		20.0	2.69	M8	mg/kg		14	75 - 125
Silver	2.40		20.0	20.2		mg/kg		89	75 - 125

Lab Sample ID: 11F2613-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2613 **Prep Batch: 11F2613_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	15.4		19.4	27.7	M8	mg/kg		63	75 - 125	18	20
Barium	709		777	1290		mg/kg		75	75 - 125	1	20
Cadmium	28.9		19.4	54.5	M7	mg/kg		132	75 - 125	9	20
Chromium	213		77.7	189	MHA	mg/kg		-31	75 - 125	14	20
Lead	2000		19.4	2270	MHA	mg/kg		1400	75 - 125	12	20
Selenium	ND		19.4	7.40	M8 R3	mg/kg		38	75 - 125	93	20
Silver	2.40		19.4	20.4		mg/kg		93	75 - 125	1	20

QC Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1519

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Lab Sample ID: 11F3144-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11F3144 — **Prep Batch: 11F3144_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.097		mg/kg		06/14/11 09:30	06/15/11 10:32	1.0

Lab Sample ID: 11F3144-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11F3144 — **Prep Batch: 11F3144_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.166	0.16		mg/kg		94	80 - 120

Lab Sample ID: 11F3144-BSD1 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11F3144 — **Prep Batch: 11F3144_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.164	0.17		mg/kg		103	80 - 120	7	20

Lab Sample ID: 11F3144-MS1 — **Client Sample ID: F-Ug-(1-3)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11F3144 — **Prep Batch: 11F3144_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.13		0.163	0.32		mg/kg		120	75 - 125

Lab Sample ID: 11F3144-MSD1 — **Client Sample ID: F-Ug-(1-3)**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11F3144 — **Prep Batch: 11F3144_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.13		0.164	0.32		mg/kg		117	75 - 125	1	20

GCMS Volatiles

Analysis Batch: U010244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2699-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11F2699_P
11F2699-BSD1	Lab Control Sample Dup	Total	Soil	SW846 8260B	11F2699_P
11F2699-BLK2	Method Blank	Total	Soil	SW846 8260B	11F2699_P
11F2699-BLK1	Method Blank	Total	Soil	SW846 8260B	11F2699_P
NUF1519-09	F-03-(9.5-11)	Total	Soil	SW846 8260B	11F2699_P
NUF1519-01	F-Ug-(1-3)	Total	Soil	SW846 8260B	11F2699_P
NUF1519-02	F-Ug-(6-7)	Total	Soil	SW846 8260B	11F2699_P
NUF1519-03	F-Ug-(13-14)	Total	Soil	SW846 8260B	11F2699_P
NUF1519-04	F-07-(1-3)	Total	Soil	SW846 8260B	11F2699_P
NUF1519-05	F-07-(5-7)	Total	Soil	SW846 8260B	11F2699_P
NUF1519-06	F-07-(9-10)	Total	Soil	SW846 8260B	11F2699_P
NUF1519-07	F-09-(2-3)	Total	Soil	SW846 8260B	11F2699_P
NUF1519-08	F-03-(7-9)	Total	Soil	SW846 8260B	11F2699_P
11F2699-MS1	F-03-(9.5-11)	Total	Soil	SW846 8260B	11F2699_P
11F2699-MSD1	F-03-(9.5-11)	Total	Soil	SW846 8260B	11F2699_P

Prep Batch: 11F2699_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2699-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11F2699-BSD1	Lab Control Sample Dup	Total	Soil	EPA 5035	
11F2699-BLK2	Method Blank	Total	Soil	EPA 5035	
11F2699-BLK1	Method Blank	Total	Soil	EPA 5035	
NUF1519-09	F-03-(9.5-11)	Total	Soil	EPA 5035	
NUF1519-01	F-Ug-(1-3)	Total	Soil	EPA 5035	
NUF1519-02	F-Ug-(6-7)	Total	Soil	EPA 5035	
NUF1519-03	F-Ug-(13-14)	Total	Soil	EPA 5035	
NUF1519-04	F-07-(1-3)	Total	Soil	EPA 5035	
NUF1519-05	F-07-(5-7)	Total	Soil	EPA 5035	
NUF1519-06	F-07-(9-10)	Total	Soil	EPA 5035	
NUF1519-07	F-09-(2-3)	Total	Soil	EPA 5035	
NUF1519-08	F-03-(7-9)	Total	Soil	EPA 5035	
11F2699-MS1	F-03-(9.5-11)	Total	Soil	EPA 5035	
11F2699-MSD1	F-03-(9.5-11)	Total	Soil	EPA 5035	

GCMS Semivolatiles

Analysis Batch: 11F2595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2595-BS1	Lab Control Sample	Total	Soil	SW846 8270D	11F2595_P
11F2595-BSD1	Lab Control Sample Dup	Total	Soil	SW846 8270D	11F2595_P
11F2595-BLK1	Method Blank	Total	Soil	SW846 8270D	11F2595_P
11F2595-MS1	Matrix Spike	Total	Soil	SW846 8270D	11F2595_P
11F2595-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8270D	11F2595_P
NUF1519-01	F-Ug-(1-3)	Total	Soil	SW846 8270D	11F2595_P
NUF1519-02	F-Ug-(6-7)	Total	Soil	SW846 8270D	11F2595_P
NUF1519-03	F-Ug-(13-14)	Total	Soil	SW846 8270D	11F2595_P
NUF1519-04	F-07-(1-3)	Total	Soil	SW846 8270D	11F2595_P
NUF1519-05	F-07-(5-7)	Total	Soil	SW846 8270D	11F2595_P
NUF1519-06	F-07-(9-10)	Total	Soil	SW846 8270D	11F2595_P
NUF1519-07	F-09-(2-3)	Total	Soil	SW846 8270D	11F2595_P
NUF1519-08	F-03-(7-9)	Total	Soil	SW846 8270D	11F2595_P
NUF1519-09	F-03-(9.5-11)	Total	Soil	SW846 8270D	11F2595_P

GCMS Semivolatiles (Continued)

Prep Batch: 11F2595_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2595-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
11F2595-BSD1	Lab Control Sample Dup	Total	Soil	EPA 3550C	
11F2595-BLK1	Method Blank	Total	Soil	EPA 3550C	
11F2595-MS1	Matrix Spike	Total	Soil	EPA 3550C	
11F2595-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 3550C	
NUF1519-01	F-Ug-(1-3)	Total	Soil	EPA 3550C	
NUF1519-02	F-Ug-(6-7)	Total	Soil	EPA 3550C	
NUF1519-03	F-Ug-(13-14)	Total	Soil	EPA 3550C	
NUF1519-04	F-07-(1-3)	Total	Soil	EPA 3550C	
NUF1519-05	F-07-(5-7)	Total	Soil	EPA 3550C	
NUF1519-06	F-07-(9-10)	Total	Soil	EPA 3550C	
NUF1519-07	F-09-(2-3)	Total	Soil	EPA 3550C	
NUF1519-08	F-03-(7-9)	Total	Soil	EPA 3550C	
NUF1519-09	F-03-(9.5-11)	Total	Soil	EPA 3550C	

GC Semivolatiles

Analysis Batch: U010436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2601-BLK1	Method Blank	Total	Soil	SW846 8015B	11F2601_P
11F2601-BS1	Lab Control Sample	Total	Soil	SW846 8015B	11F2601_P
11F2601-MS1	Matrix Spike	Total	Soil	SW846 8015B	11F2601_P
11F2601-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8015B	11F2601_P
NUF1519-02	F-Ug-(6-7)	Total	Soil	SW846 8015B	11F2601_P
NUF1519-03	F-Ug-(13-14)	Total	Soil	SW846 8015B	11F2601_P
NUF1519-05	F-07-(5-7)	Total	Soil	SW846 8015B	11F2601_P
NUF1519-06	F-07-(9-10)	Total	Soil	SW846 8015B	11F2601_P
NUF1519-07	F-09-(2-3)	Total	Soil	SW846 8015B	11F2601_P
NUF1519-09	F-03-(9.5-11)	Total	Soil	SW846 8015B	11F2601_P
NUF1519-08	F-03-(7-9)	Total	Soil	SW846 8015B	11F2601_P
NUF1519-01	F-Ug-(1-3)	Total	Soil	SW846 8015B	11F2601_P
NUF1519-04	F-07-(1-3)	Total	Soil	SW846 8015B	11F2601_P

Prep Batch: 11F2601_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2601-BLK1	Method Blank	Total	Soil	EPA 3550B	
11F2601-BS1	Lab Control Sample	Total	Soil	EPA 3550B	
11F2601-MS1	Matrix Spike	Total	Soil	EPA 3550B	
11F2601-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 3550B	
NUF1519-02	F-Ug-(6-7)	Total	Soil	EPA 3550B	
NUF1519-03	F-Ug-(13-14)	Total	Soil	EPA 3550B	
NUF1519-05	F-07-(5-7)	Total	Soil	EPA 3550B	
NUF1519-06	F-07-(9-10)	Total	Soil	EPA 3550B	
NUF1519-07	F-09-(2-3)	Total	Soil	EPA 3550B	
NUF1519-09	F-03-(9.5-11)	Total	Soil	EPA 3550B	
NUF1519-08	F-03-(7-9)	Total	Soil	EPA 3550B	
NUF1519-01	F-Ug-(1-3)	Total	Soil	EPA 3550B	
NUF1519-04	F-07-(1-3)	Total	Soil	EPA 3550B	

QC Association Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1519

Pesticides

Analysis Batch: U010364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2578-BLK1	Method Blank	Total	Soil	SW846 8082A	11F2578_P
11F2578-BS1	Lab Control Sample	Total	Soil	SW846 8082A	11F2578_P
11F2578-MS1	Matrix Spike	Total	Soil	SW846 8082A	11F2578_P
11F2578-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8082A	11F2578_P
NUF1519-01	F-Ug-(1-3)	Total	Soil	SW846 8082A	11F2578_P
NUF1519-02	F-Ug-(6-7)	Total	Soil	SW846 8082A	11F2578_P
NUF1519-03	F-Ug-(13-14)	Total	Soil	SW846 8082A	11F2578_P
NUF1519-05	F-07-(5-7)	Total	Soil	SW846 8082A	11F2578_P
NUF1519-06	F-07-(9-10)	Total	Soil	SW846 8082A	11F2578_P
NUF1519-07	F-09-(2-3)	Total	Soil	SW846 8082A	11F2578_P
NUF1519-08	F-03-(7-9)	Total	Soil	SW846 8082A	11F2578_P
NUF1519-09	F-03-(9.5-11)	Total	Soil	SW846 8082A	11F2578_P

Analysis Batch: U010417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUF1519-04 - RE1	F-07-(1-3)	Total	Soil	SW846 8082A	11F2578_P

Prep Batch: 11F2578_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2578-BLK1	Method Blank	Total	Soil	EPA 3550C/3665A	
11F2578-BS1	Lab Control Sample	Total	Soil	EPA 3550C/3665A	
11F2578-MS1	Matrix Spike	Total	Soil	EPA 3550C/3665A	
11F2578-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 3550C/3665A	
NUF1519-01	F-Ug-(1-3)	Total	Soil	EPA 3550C/3665A	
NUF1519-02	F-Ug-(6-7)	Total	Soil	EPA 3550C/3665A	
NUF1519-03	F-Ug-(13-14)	Total	Soil	EPA 3550C/3665A	
NUF1519-05	F-07-(5-7)	Total	Soil	EPA 3550C/3665A	
NUF1519-06	F-07-(9-10)	Total	Soil	EPA 3550C/3665A	
NUF1519-07	F-09-(2-3)	Total	Soil	EPA 3550C/3665A	
NUF1519-08	F-03-(7-9)	Total	Soil	EPA 3550C/3665A	
NUF1519-09	F-03-(9.5-11)	Total	Soil	EPA 3550C/3665A	
NUF1519-04 - RE1	F-07-(1-3)	Total	Soil	EPA 3550C/3665A	

Metals

Analysis Batch: 11F2613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2613-BLK1	Method Blank	Total	Soil	SW846 6010B	11F2613_P
11F2613-BS1	Lab Control Sample	Total	Soil	SW846 6010B	11F2613_P
11F2613-MS1	Matrix Spike	Total	Soil	SW846 6010B	11F2613_P
11F2613-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 6010B	11F2613_P
NUF1519-01	F-Ug-(1-3)	Total	Soil	SW846 6010B	11F2613_P
NUF1519-02	F-Ug-(6-7)	Total	Soil	SW846 6010B	11F2613_P
NUF1519-03	F-Ug-(13-14)	Total	Soil	SW846 6010B	11F2613_P
NUF1519-04	F-07-(1-3)	Total	Soil	SW846 6010B	11F2613_P

Metals (Continued)

Analysis Batch: 11F2613 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUF1519-05	F-07-(5-7)	Total	Soil	SW846 6010B	11F2613_P
NUF1519-06	F-07-(9-10)	Total	Soil	SW846 6010B	11F2613_P
NUF1519-07	F-09-(2-3)	Total	Soil	SW846 6010B	11F2613_P
NUF1519-08	F-03-(7-9)	Total	Soil	SW846 6010B	11F2613_P
NUF1519-09	F-03-(9.5-11)	Total	Soil	SW846 6010B	11F2613_P

Analysis Batch: 11F3144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3144-BLK1	Method Blank	Total	Soil	SW846 7471A	11F3144_P
11F3144-BS1	Lab Control Sample	Total	Soil	SW846 7471A	11F3144_P
11F3144-BSD1	Lab Control Sample Dup	Total	Soil	SW846 7471A	11F3144_P
NUF1519-01	F-Ug-(1-3)	Total	Soil	SW846 7471A	11F3144_P
NUF1519-02	F-Ug-(6-7)	Total	Soil	SW846 7471A	11F3144_P
11F3144-MS1	F-Ug-(1-3)	Total	Soil	SW846 7471A	11F3144_P
11F3144-MSD1	F-Ug-(1-3)	Total	Soil	SW846 7471A	11F3144_P
NUF1519-03	F-Ug-(13-14)	Total	Soil	SW846 7471A	11F3144_P
NUF1519-04	F-07-(1-3)	Total	Soil	SW846 7471A	11F3144_P
NUF1519-05	F-07-(5-7)	Total	Soil	SW846 7471A	11F3144_P
NUF1519-06	F-07-(9-10)	Total	Soil	SW846 7471A	11F3144_P
NUF1519-07	F-09-(2-3)	Total	Soil	SW846 7471A	11F3144_P
NUF1519-08	F-03-(7-9)	Total	Soil	SW846 7471A	11F3144_P
NUF1519-09	F-03-(9.5-11)	Total	Soil	SW846 7471A	11F3144_P

Prep Batch: 11F2613_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2613-BLK1	Method Blank	Total	Soil	EPA 3051A/6010	
11F2613-BS1	Lab Control Sample	Total	Soil	EPA 3051A/6010	
11F2613-MS1	Matrix Spike	Total	Soil	EPA 3051A/6010	
11F2613-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 3051A/6010	
NUF1519-01	F-Ug-(1-3)	Total	Soil	EPA 3051A/6010	
NUF1519-02	F-Ug-(6-7)	Total	Soil	EPA 3051A/6010	
NUF1519-03	F-Ug-(13-14)	Total	Soil	EPA 3051A/6010	
NUF1519-04	F-07-(1-3)	Total	Soil	EPA 3051A/6010	
NUF1519-05	F-07-(5-7)	Total	Soil	EPA 3051A/6010	
NUF1519-06	F-07-(9-10)	Total	Soil	EPA 3051A/6010	
NUF1519-07	F-09-(2-3)	Total	Soil	EPA 3051A/6010	
NUF1519-08	F-03-(7-9)	Total	Soil	EPA 3051A/6010	
NUF1519-09	F-03-(9.5-11)	Total	Soil	EPA 3051A/6010	

Prep Batch: 11F3144_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3144-BLK1	Method Blank	Total	Soil	EPA 7471	
11F3144-BS1	Lab Control Sample	Total	Soil	EPA 7471	
11F3144-BSD1	Lab Control Sample Dup	Total	Soil	EPA 7471	
NUF1519-01	F-Ug-(1-3)	Total	Soil	EPA 7471	

Metals (Continued)

Prep Batch: 11F3144_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUF1519-02	F-Ug-(6-7)	Total	Soil	EPA 7471	
11F3144-MS1	F-Ug-(1-3)	Total	Soil	EPA 7471	
11F3144-MSD1	F-Ug-(1-3)	Total	Soil	EPA 7471	
NUF1519-03	F-Ug-(13-14)	Total	Soil	EPA 7471	
NUF1519-04	F-07-(1-3)	Total	Soil	EPA 7471	
NUF1519-05	F-07-(5-7)	Total	Soil	EPA 7471	
NUF1519-06	F-07-(9-10)	Total	Soil	EPA 7471	
NUF1519-07	F-09-(2-3)	Total	Soil	EPA 7471	
NUF1519-08	F-03-(7-9)	Total	Soil	EPA 7471	
NUF1519-09	F-03-(9.5-11)	Total	Soil	EPA 7471	

Client Sample ID: F-Ug-(1-3) Lab Sample ID: NUF1519-01

Date Collected: 06/07/11 08:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 78.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.906	11F2699_P	06/10/11 13:28	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010244	06/10/11 16:53	KXC	TAL NSH
Total	Prep	EPA 3550C		0.994	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/14/11 02:59	KJP	TAL NSH
Total	Prep	EPA 3550B		0.986	11F2601_P	06/13/11 09:25	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010436	06/14/11 01:31	KKH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.991	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010364	06/13/11 23:46	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		1.00	11F2613_P	06/10/11 10:06	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F2613	06/10/11 20:38	LTB	TAL NSH
Total	Prep	EPA 7471		1.0	11F3144_P	06/14/11 09:30	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3144	06/15/11 10:40	MB	TAL NSH

Client Sample ID: F-Ug-(6-7) Lab Sample ID: NUF1519-02

Date Collected: 06/07/11 08:20 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 74.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.906	11F2699_P	06/10/11 13:29	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010244	06/10/11 17:24	KXC	TAL NSH
Total	Prep	EPA 3550C		0.987	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/14/11 03:20	KJP	TAL NSH
Total	Prep	EPA 3550B		0.992	11F2601_P	06/13/11 09:25	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010436	06/13/11 23:37	KKH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.991	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010364	06/14/11 00:07	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.971	11F2613_P	06/10/11 10:06	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F2613	06/10/11 20:41	LTB	TAL NSH
Total	Prep	EPA 7471		1.0	11F3144_P	06/14/11 09:30	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3144	06/15/11 10:43	MB	TAL NSH

Client Sample ID: F-Ug-(13-14) Lab Sample ID: NUF1519-03

Date Collected: 06/07/11 08:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 81.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.874	11F2699_P	06/10/11 13:33	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010244	06/10/11 17:54	KXC	TAL NSH
Total	Prep	EPA 3550C		0.979	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/14/11 03:40	KJP	TAL NSH
Total	Prep	EPA 3550B		0.962	11F2601_P	06/13/11 09:25	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010436	06/13/11 23:54	KKH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.987	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010364	06/14/11 00:29	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.975	11F2613_P	06/10/11 10:06	RSO	TAL NSH

Client Sample ID: F-Ug-(13-14)

Lab Sample ID: NUF1519-03
Date Collected: 06/07/11 08:45
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Analysis	SW846 6010B		1.00	11F2613	06/10/11 20:44	LTB	TAL NSH
Total	Prep	EPA 7471		0.96	11F3144_P	06/14/11 09:30	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3144	06/15/11 10:51	MB	TAL NSH

Client Sample ID: F-07-(1-3)

Lab Sample ID: NUF1519-04
Date Collected: 06/07/11 11:45
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.924	11F2699_P	06/10/11 13:35	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010244	06/10/11 18:25	KXC	TAL NSH
Total	Prep	EPA 3550C		0.986	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/14/11 04:01	KJP	TAL NSH
Total	Prep	EPA 3550B		0.999	11F2601_P	06/13/11 09:25	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010436	06/14/11 01:47	KKH	TAL NSH
Total	Prep	EPA 3550C/3665A	RE1	0.982	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A	RE1	50.0	U010417	06/15/11 05:54	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.958	11F2613_P	06/10/11 10:06	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F2613	06/10/11 20:47	LTB	TAL NSH
Total	Prep	EPA 7471		0.96	11F3144_P	06/14/11 09:30	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3144	06/15/11 10:59	MB	TAL NSH

Client Sample ID: F-07-(5-7)

Lab Sample ID: NUF1519-05
Date Collected: 06/07/11 11:55
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.986	11F2699_P	06/10/11 13:37	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010244	06/10/11 18:56	KXC	TAL NSH
Total	Prep	EPA 3550C		0.971	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/14/11 04:22	KJP	TAL NSH
Total	Prep	EPA 3550B		0.970	11F2601_P	06/13/11 09:25	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010436	06/14/11 00:10	KKH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.983	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010364	06/14/11 01:55	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.980	11F2613_P	06/10/11 10:06	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F2613	06/10/11 20:50	LTB	TAL NSH
Total	Prep	EPA 7471		1.0	11F3144_P	06/14/11 09:30	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3144	06/15/11 11:01	MB	TAL NSH

Client Sample ID: F-07-(9-10)

Lab Sample ID: NUF1519-06
Date Collected: 06/07/11 12:15
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.887	11F2699_P	06/10/11 13:40	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010244	06/10/11 19:27	KXC	TAL NSH
Total	Prep	EPA 3550C		0.970	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/14/11 04:43	KJP	TAL NSH
Total	Prep	EPA 3550B		0.969	11F2601_P	06/13/11 09:25	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010436	06/14/11 00:26	KKH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.996	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010364	06/14/11 02:17	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.973	11F2613_P	06/10/11 10:06	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F2613	06/10/11 20:53	LTB	TAL NSH
Total	Prep	EPA 7471		1.0	11F3144_P	06/14/11 09:30	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3144	06/15/11 11:04	MB	TAL NSH

Client Sample ID: F-09-(2-3)

Lab Sample ID: NUF1519-07
Date Collected: 06/07/11 10:35
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.982	11F2699_P	06/10/11 13:42	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010244	06/10/11 19:57	KXC	TAL NSH
Total	Prep	EPA 3550C		0.989	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/14/11 05:04	KJP	TAL NSH
Total	Prep	EPA 3550B		0.999	11F2601_P	06/13/11 09:25	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010436	06/14/11 00:42	KKH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.999	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010364	06/14/11 02:39	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.969	11F2613_P	06/10/11 10:06	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F2613	06/10/11 20:57	LTB	TAL NSH
Total	Prep	EPA 7471		0.97	11F3144_P	06/14/11 09:30	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3144	06/15/11 11:07	MB	TAL NSH

Client Sample ID: F-03-(7-9)

Lab Sample ID: NUF1519-08
Date Collected: 06/07/11 13:15
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.842	11F2699_P	06/10/11 13:43	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010244	06/10/11 20:28	KXC	TAL NSH
Total	Prep	EPA 3550C		0.974	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/14/11 05:24	KJP	TAL NSH
Total	Prep	EPA 3550B		0.983	11F2601_P	06/13/11 09:25	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010436	06/14/11 01:15	KKH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.992	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010364	06/14/11 03:00	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.952	11F2613_P	06/10/11 10:06	RSO	TAL NSH

Lab Chronicle

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1519

Client Sample ID: F-03-(7-9)

Lab Sample ID: NUF1519-08
Date Collected: 06/07/11 13:15
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Analysis	SW846 6010B		1.00	11F2613	06/10/11 21:00	LTB	TAL NSH
Total	Prep	EPA 7471		0.98	11F3144_P	06/14/11 09:30	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3144	06/15/11 11:09	MB	TAL NSH

Client Sample ID: F-03-(9.5-11)

Lab Sample ID: NUF1519-09
Date Collected: 06/07/11 13:30
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.911	11F2699_P	06/10/11 13:45	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010244	06/10/11 16:22	KXC	TAL NSH
Total	Prep	EPA 3550C		0.982	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/14/11 05:45	KJP	TAL NSH
Total	Prep	EPA 3550B		0.994	11F2601_P	06/13/11 09:25	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010436	06/14/11 00:58	KKH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.993	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010364	06/14/11 03:22	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		1.01	11F2613_P	06/10/11 10:06	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F2613	06/10/11 21:03	LTB	TAL NSH
Total	Prep	EPA 7471		0.96	11F3144_P	06/14/11 09:30	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3144	06/15/11 11:11	MB	TAL NSH

Laboratory References:
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1519

Method	Method Description	Protocol	Laboratory
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
SW846 8270D	Semivolatile Organic Compounds by EPA Method 8270D		TAL NSH
SW846 8015B	Extractable Petroleum Hydrocarbons		TAL NSH
SW846 8082A	Polychlorinated Biphenyls by EPA Method 8082A		TAL NSH
SW846 6010B	Total Metals by EPA Method 6010B		TAL NSH
SW846 7471A	Mercury by EPA Methods 7470A/7471A		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1519

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025	0	0453.07
TestAmerica Nashville	A2LA	WY UST	0	453.07
TestAmerica Nashville	AIHA	AIHA	0	100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA	0	3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA	0	S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RE

NUF1519

Cooler Received/Opened On 6/9/2011 @ 8:55

1. Tracking # 0041 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 14.1 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where:

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) JG

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Water — Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) PH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) PH

I certify that I attached a label with the unique LIMS number to each container (intial) PH

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404

NUF1519
06/20/11 23:59

',"Reg District (CA)")

Client: PSC Industrial Outsourcing LP (3797)
Address: 210 West Sand Bank Rd.
City, State, Zip: Columbia IL 62236
Client Invoice Contact: Al Becker
Client Project Mgr: Al Becker
Client Telephone#: (618) 281-1550 Fax: (618) 281-7020
Sampler Name (Print) Aaron Smith
SamplerSignature:

TA Account #: 3797 PO #:
Invoice to: PSC Industrial Outsourcing LP (3797)
Report to: Al Becker
Project Name: Festus, Missouri
Facility ID: [none]
Reg District (CA):
Site Address: 9Th and Delmar
City,State,Zip: Festus Missouri

							Preservative								Matrix						Analyze for													
Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	8082A PCBs	8260B Volatile Organics	8270D Semivolatile Organics	Metals, RCRA Solid ICP 6010B	Metals, RCRA Water ICP 6010B	Metals, TCLP 6010B	TCLP Extraction Metals	TCLP Standard Extraction	TPH - Diesel Range/Oil Range SW8	TPH-Gasoline Range SW8015						RUSH TAT (Pre Schedule)*
3 F-Ug-(1-3)	6/7/11	0850	3	X										X					X		X	X	X	X					X						
4 F-Ug (6-7)		0820	2	X										X					X		X	X	X	X					X						
5 F-Ug (13-14)		0845	2	X										X					X		X	X	X	X					X						
6 F-07 (1-3)		1145	3	X										X					X		X	X	X	X					X						
7 F-07 (5-7)		11:55	2	X										X					X		X	X	X	X					X						
8 F-07 (9-10)		1215	2	X										X					X		X	X	X	X					X						
9 F-09 (2-3)		10:35	2	X										X					X		X	X	X	X					X						
F-03 (7-9)		1315	3	X										X					X		X	X	X	X					X						
F-03 (9.5-11)		1330	2	X										X					X		X	X	X	X					X						

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.
* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.
There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES/SPECIAL INSTRUCTIONS: BO # 25017
Contact John Carrow for any questions
618-792-2468
JCarrow@psc now.com

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
Shipped Via:			Shipped Via:					
Received for TestAmerica by:	Date:	Time:	Temperature Upon Receipt:	Sample Containers Intact? Y N		QC Deliverables (Please Circle One): Level 2 Level 3 Level 4 Site Specific (If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)	Date Due of Report:	
Paul A. Mull	6/9/11	08:55		VOCs Free of Headspace? Y N				

06/16/2011

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUF1504
Client Project/Site: [none]
Client Project Description: Festus, Missouri

For:
PSC Industrial Outsourcing LP (3797)
210 West Sand Bank Rd.
Columbia, IL 62236

Attn: Al Becker

Madonna Myers

Authorized for release by:
06/17/2011 10:20:51 AM

Madonna Myers
Project Manager
madonna.myers@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Sample Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1504

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUF1504-01	F-08 (2-3)	Soil	06/07/11 10:00	06/09/11 08:55
NUF1504-02	F-08 (3-4)	Soil	06/07/11 09:45	06/09/11 08:55
NUF1504-03	F-01A (1-3)	Soil	06/07/11 10:00	06/09/11 08:55
NUF1504-04	F-01A (6-8)	Soil	06/07/11 10:20	06/09/11 08:55
NUF1504-05	F-01A (9.5-10.5)	Soil	06/07/11 10:30	06/09/11 08:55
NUF1504-06	F-06 (1-2)	Soil	06/07/11 14:30	06/09/11 08:55
NUF1504-07	F-06 (4-6)	Soil	06/07/11 14:35	06/09/11 08:55
NUF1504-08	F-06 (8-9)	Soil	06/07/11 14:50	06/09/11 08:55
NUF1504-09	F-07A (0-1)	Soil	06/07/11 12:30	06/09/11 08:55

Definitions/Glossary

Client: PSC Industrial Outsourcing LP (3797) TestAmerica Job ID: NUF1504
Project/Site: [none]

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
PX	Sample for VOA analysis not received in preserved VOA vials or Encore or similar sampling device.
RL1	Reporting limit raised due to sample matrix effects.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

GCMS Semivolatiles

Qualifier	Qualifier Description
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
R2	The RPD exceeded the acceptance limit.

GC Semivolatiles

Qualifier	Qualifier Description
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Metals

Qualifier	Qualifier Description
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
R3	The RPD exceeded the acceptance limit due to sample matrix effects.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client Sample ID: F-08 (2-3) Lab Sample ID: NUF1504-01

Date Collected: 06/07/11 10:00 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 82.9**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**6.33**		2.18		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Benzene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Bromobenzene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Bromochloromethane	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Bromodichloromethane	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Bromoform	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Bromomethane	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,2-Dibromo-3-chloropropane	ND	RL1	0.218		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
2-Butanone	ND	RL1	2.18		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
sec-Butylbenzene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
n-Butylbenzene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
tert-Butylbenzene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Carbon disulfide	ND	RL1	0.218		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Carbon Tetrachloride	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Chlorobenzene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Chlorodibromomethane	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Chloroethane	ND	RL1	0.218		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Chloroform	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Chloromethane	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
2-Chlorotoluene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
4-Chlorotoluene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,2-Dibromoethane (EDB)	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Dibromomethane	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,4-Dichlorobenzene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,3-Dichlorobenzene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,2-Dichlorobenzene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Dichlorodifluoromethane	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,1-Dichloroethane	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,2-Dichloroethane	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
cis-1,2-Dichloroethene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,1-Dichloroethene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
trans-1,2-Dichloroethene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,3-Dichloropropane	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,2-Dichloropropane	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
2,2-Dichloropropane	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
cis-1,3-Dichloropropene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
trans-1,3-Dichloropropene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,1-Dichloropropene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Ethylbenzene	**0.603**		0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Hexachlorobutadiene	ND	RL1	0.218		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
2-Hexanone	ND	RL1	2.18		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Isopropylbenzene	**0.380**		0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
p-Isopropyltoluene	**0.168**		0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Methyl tert-Butyl Ether	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Methylene Chloride	ND	RL1	0.436		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
4-Methyl-2-pentanone	ND	RL1	2.18		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Naphthalene	**0.453**		0.218		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
n-Propylbenzene	**0.193**		0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Styrene	**1.01**		0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,1,1,2-Tetrachloroethane	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0

Client Sample ID: F-08 (2-3) Lab Sample ID: NUF1504-01

Date Collected: 06/07/11 10:00 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 82.9**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Tetrachloroethene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Toluene	**0.575**		0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,2,3-Trichlorobenzene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,2,4-Trichlorobenzene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,1,2-Trichloroethane	ND	RL1	0.218		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,1,1-Trichloroethane	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Trichloroethene	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Trichlorofluoromethane	**1.27**		0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,2,3-Trichloropropane	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,3,5-Trimethylbenzene	**0.251**		0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
1,2,4-Trimethylbenzene	**0.668**		0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Vinyl chloride	ND	RL1	0.0873		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0
Xylenes, total	**2.27**		0.218		mg/kg		06/10/11 12:08	06/15/11 22:01	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*87*		*67 - 138*	*06/10/11 12:08*	*06/15/11 22:01*	*50.0*
Dibromofluoromethane	*92*		*75 - 125*	*06/10/11 12:08*	*06/15/11 22:01*	*50.0*
Toluene-d8	*104*		*76 - 129*	*06/10/11 12:08*	*06/15/11 22:01*	*50.0*
4-Bromofluorobenzene	*99*		*67 - 147*	*06/10/11 12:08*	*06/15/11 22:01*	*50.0*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.326**		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Acenaphthylene	ND		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Anthracene	**0.531**		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Benzo (a) anthracene	**0.523**		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Benzo (a) pyrene	**0.331**		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Benzo (b) fluoranthene	**0.531**		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Benzo (g,h,i) perylene	**0.228**		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Benzo (k) fluoranthene	**0.331**		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
4-Bromophenyl phenyl ether	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Butyl benzyl phthalate	**0.865**		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Carbazole	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
4-Chloro-3-methylphenol	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
4-Chloroaniline	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Bis(2-chloroethoxy)methane	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Bis(2-chloroethyl)ether	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Bis(2-chloroisopropyl)ether	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
2-Chloronaphthalene	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
2-Chlorophenol	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
4-Chlorophenyl phenyl ether	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Chrysene	**0.676**		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Dibenz (a,h) anthracene	ND		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Dibenzofuran	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Di-n-butyl phthalate	**0.861**		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
1,4-Dichlorobenzene	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
1,2-Dichlorobenzene	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
1,3-Dichlorobenzene	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
3,3-Dichlorobenzidine	ND		1.33		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
2,4-Dichlorophenol	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00

Client Sample ID: F-08 (2-3) Lab Sample ID: NUF1504-01

Date Collected: 06/07/11 10:00 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 82.9**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
2,4-Dimethylphenol	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
4,6-Dinitro-2-methylphenol	ND		1.66		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
2,4-Dinitrophenol	ND		1.66		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
2,6-Dinitrotoluene	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
2,4-Dinitrotoluene	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Di-n-octyl phthalate	**1.84**		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Fluoranthene	**1.52**		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Fluorene	**0.361**		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Hexachlorobenzene	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Hexachlorobutadiene	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Hexachlorocyclopentadiene	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Hexachloroethane	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Indeno (1,2,3-cd) pyrene	**0.193**		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Isophorone	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
2-Methylnaphthalene	**0.270**		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
2-Methylphenol	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
3/4-Methylphenol	**5.41**		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Naphthalene	**0.256**		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
3-Nitroaniline	ND		1.66		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
2-Nitroaniline	ND		1.66		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
4-Nitroaniline	ND		1.66		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Nitrobenzene	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
4-Nitrophenol	ND		1.66		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
2-Nitrophenol	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
N-Nitrosodiphenylamine	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
N-Nitrosodi-n-propylamine	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Pentachlorophenol	ND		1.66		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Phenanthrene	**1.50**		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Phenol	**2.74**		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
Pyrene	**1.33**		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
1,2,4-Trichlorobenzene	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
1-Methylnaphthalene	**0.139**		0.133		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
2,4,6-Trichlorophenol	ND		0.663		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00
2,4,5-Trichlorophenol	ND		1.66		mg/kg		06/11/11 08:20	06/13/11 23:52	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*70*		*18 - 120*	*06/11/11 08:20*	*06/13/11 23:52*	*1.00*
2,4,6-Tribromophenol	*55*		*19 - 120*	*06/11/11 08:20*	*06/13/11 23:52*	*1.00*
Phenol-d5	*66*		*18 - 120*	*06/11/11 08:20*	*06/13/11 23:52*	*1.00*
2-Fluorobiphenyl	*63*		*14 - 120*	*06/11/11 08:20*	*06/13/11 23:52*	*1.00*
2-Fluorophenol	*58*		*17 - 120*	*06/11/11 08:20*	*06/13/11 23:52*	*1.00*
Nitrobenzene-d5	*65*		*17 - 120*	*06/11/11 08:20*	*06/13/11 23:52*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	**12.2**		1.33		mg/kg		06/11/11 08:20	06/14/11 15:15	2.00
Bis(2-ethylhexyl)phthalate	**10.5**		1.33		mg/kg		06/11/11 08:20	06/14/11 15:15	2.00

Client Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1504

Client Sample ID: F-08 (2-3)

Date Collected: 06/07/11 10:00
Date Received: 06/09/11 08:55

Lab Sample ID: NUF1504-01

Matrix: Soil
Percent Solids: 82.9

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	1620		197		mg/kg		06/10/11 13:45	06/11/11 19:17	50.0
TPH - Oil Range	3070		197		mg/kg		06/10/11 13:45	06/11/11 19:17	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl		*Z3*	*53 - 140*	*06/10/11 13:45*	*06/11/11 19:17*	*50.0*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.324		mg/kg		06/11/11 07:20	06/15/11 05:11	10.0
PCB-1221	ND		0.324		mg/kg		06/11/11 07:20	06/15/11 05:11	10.0
PCB-1232	ND		0.324		mg/kg		06/11/11 07:20	06/15/11 05:11	10.0
PCB-1242	4.04		0.324		mg/kg		06/11/11 07:20	06/15/11 05:11	10.0
PCB-1248	ND		0.324		mg/kg		06/11/11 07:20	06/15/11 05:11	10.0
PCB-1254	4.18		0.324		mg/kg		06/11/11 07:20	06/15/11 05:11	10.0
PCB-1260	ND		0.324		mg/kg		06/11/11 07:20	06/15/11 05:11	10.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*60*		*19 - 147*	*06/11/11 07:20*	*06/15/11 05:11*	*10.0*
Decachlorobiphenyl	*60*		*20 - 150*	*06/11/11 07:20*	*06/15/11 05:11*	*10.0*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15.4		9.98		mg/kg		06/10/11 10:06	06/13/11 10:17	10.0
Barium	709		20.0		mg/kg		06/10/11 10:06	06/13/11 10:17	10.0
Cadmium	28.9	M7	9.98		mg/kg		06/10/11 10:06	06/13/11 10:17	10.0
Chromium	213	MHA	9.98		mg/kg		06/10/11 10:06	06/13/11 10:17	10.0
Lead	2000		9.98		mg/kg		06/10/11 10:06	06/13/11 10:17	10.0
Selenium	ND		20.0		mg/kg		06/10/11 10:06	06/13/11 10:17	10.0
Silver	ND		9.98		mg/kg		06/10/11 10:06	06/13/11 10:17	10.0

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29		0.097		mg/kg		06/13/11 12:40	06/14/11 11:42	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	82.9		0.500		%		06/10/11 14:26	06/13/11 08:29	1.00

Client Sample ID: F-08 (3-4) Lab Sample ID: NUF1504-02

Date Collected: 06/07/11 09:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 86.3**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.242**	**PX**	0.0457		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Benzene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Bromobenzene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Bromochloromethane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Bromodichloromethane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Bromoform	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Bromomethane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00457		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
2-Butanone	ND	PX	0.0457		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
sec-Butylbenzene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
n-Butylbenzene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
tert-Butylbenzene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Carbon disulfide	**0.00543**	**PX**	0.00457		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Carbon Tetrachloride	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Chlorobenzene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Chlorodibromomethane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Chloroethane	ND	PX	0.00457		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Chloroform	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Chloromethane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
2-Chlorotoluene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
4-Chlorotoluene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Dibromomethane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,4-Dichlorobenzene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,3-Dichlorobenzene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,2-Dichlorobenzene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Dichlorodifluoromethane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,1-Dichloroethane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,2-Dichloroethane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
cis-1,2-Dichloroethene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,1-Dichloroethene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
trans-1,2-Dichloroethene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,3-Dichloropropane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,2-Dichloropropane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
2,2-Dichloropropane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
cis-1,3-Dichloropropene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
trans-1,3-Dichloropropene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,1-Dichloropropene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Ethylbenzene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Hexachlorobutadiene	ND	PX	0.00457		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
2-Hexanone	ND	PX	0.0457		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Isopropylbenzene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
p-Isopropyltoluene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Methyl tert-Butyl Ether	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Methylene Chloride	ND	PX	0.00914		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
4-Methyl-2-pentanone	ND	PX	0.0457		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Naphthalene	ND	PX	0.00457		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
n-Propylbenzene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Styrene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00

Client Sample ID: F-08 (3-4) Lab Sample ID: NUF1504-02

Date Collected: 06/07/11 09:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 86.3**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Tetrachloroethene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Toluene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,2,3-Trichlorobenzene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,2,4-Trichlorobenzene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,1,2-Trichloroethane	ND	PX	0.00457		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,1,1-Trichloroethane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Trichloroethene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Trichlorofluoromethane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,2,3-Trichloropropane	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,3,5-Trimethylbenzene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
1,2,4-Trimethylbenzene	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Vinyl chloride	ND	PX	0.00183		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00
Xylenes, total	ND	PX	0.00457		mg/kg		06/10/11 12:10	06/10/11 22:38	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*110*		*67 - 138*	*06/10/11 12:10*	*06/10/11 22:38*	*1.00*
Dibromofluoromethane	*98*		*75 - 125*	*06/10/11 12:10*	*06/10/11 22:38*	*1.00*
Toluene-d8	*93*		*76 - 129*	*06/10/11 12:10*	*06/10/11 22:38*	*1.00*
4-Bromofluorobenzene	*104*		*67 - 147*	*06/10/11 12:10*	*06/10/11 22:38*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Acenaphthylene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Anthracene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Benzo (a) anthracene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Benzo (a) pyrene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Benzo (b) fluoranthene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Benzo (g,h,i) perylene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Benzo (k) fluoranthene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
4-Bromophenyl phenyl ether	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Butyl benzyl phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Carbazole	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
4-Chloro-3-methylphenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
4-Chloroaniline	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Bis(2-chloroethoxy)methane	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Bis(2-chloroethyl)ether	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Bis(2-chloroisopropyl)ether	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
2-Chloronaphthalene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
2-Chlorophenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
4-Chlorophenyl phenyl ether	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Chrysene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Dibenz (a,h) anthracene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Dibenzofuran	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Di-n-butyl phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
1,4-Dichlorobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
1,2-Dichlorobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
1,3-Dichlorobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
3,3-Dichlorobenzidine	ND		0.659		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
2,4-Dichlorophenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00

Client Sample ID: F-08 (3-4) Lab Sample ID: NUF1504-02

Date Collected: 06/07/11 09:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 86.3**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
2,4-Dimethylphenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Dimethyl phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
4,6-Dinitro-2-methylphenol	ND		0.823		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
2,4-Dinitrophenol	ND		0.823		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
2,6-Dinitrotoluene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
2,4-Dinitrotoluene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Di-n-octyl phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Bis(2-ethylhexyl)phthalate	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Fluoranthene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Fluorene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Hexachlorobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Hexachlorobutadiene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Hexachlorocyclopentadiene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Hexachloroethane	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Isophorone	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
2-Methylnaphthalene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
2-Methylphenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
3/4-Methylphenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Naphthalene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
3-Nitroaniline	ND		0.823		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
2-Nitroaniline	ND		0.823		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
4-Nitroaniline	ND		0.823		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Nitrobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
4-Nitrophenol	ND		0.823		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
2-Nitrophenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
N-Nitrosodiphenylamine	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
N-Nitrosodi-n-propylamine	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Pentachlorophenol	ND		0.823		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Phenanthrene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Phenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
Pyrene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
1,2,4-Trichlorobenzene	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
1-Methylnaphthalene	ND		0.0662		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
2,4,6-Trichlorophenol	ND		0.329		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00
2,4,5-Trichlorophenol	ND		0.823		mg/kg		06/11/11 08:20	06/14/11 00:13	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*84*		*18 - 120*	*06/11/11 08:20*	*06/14/11 00:13*	*1.00*
2,4,6-Tribromophenol	*65*		*19 - 120*	*06/11/11 08:20*	*06/14/11 00:13*	*1.00*
Phenol-d5	*63*		*18 - 120*	*06/11/11 08:20*	*06/14/11 00:13*	*1.00*
2-Fluorobiphenyl	*57*		*14 - 120*	*06/11/11 08:20*	*06/14/11 00:13*	*1.00*
2-Fluorophenol	*59*		*17 - 120*	*06/11/11 08:20*	*06/14/11 00:13*	*1.00*
Nitrobenzene-d5	*57*		*17 - 120*	*06/11/11 08:20*	*06/14/11 00:13*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**8.94**		3.93		mg/kg		06/10/11 13:45	06/11/11 12:00	1.00
TPH - Oil Range	**14.6**		3.93		mg/kg		06/10/11 13:45	06/11/11 12:00	1.00

Client Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1504

Client Sample ID: F-08 (3-4)

Date Collected: 06/07/11 09:45
Date Received: 06/09/11 08:55

Lab Sample ID: NUF1504-02

Matrix: Soil
Percent Solids: 86.3

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*53 - 140*	*06/10/11 13:45*	*06/11/11 12:00*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 19:48	1.00
PCB-1221	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 19:48	1.00
PCB-1232	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 19:48	1.00
PCB-1242	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 19:48	1.00
PCB-1248	**0.0808**		0.0325		mg/kg		06/11/11 07:20	06/13/11 19:48	1.00
PCB-1254	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 19:48	1.00
PCB-1260	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 19:48	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*98*		*19 - 147*	*06/11/11 07:20*	*06/13/11 19:48*	*1.00*
Decachlorobiphenyl	*100*		*20 - 150*	*06/11/11 07:20*	*06/13/11 19:48*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.62**		1.01		mg/kg		06/10/11 10:06	06/10/11 20:02	1.00
Barium	**167**		2.02		mg/kg		06/10/11 10:06	06/10/11 20:02	1.00
Cadmium	ND		1.01		mg/kg		06/10/11 10:06	06/10/11 20:02	1.00
Chromium	**25.9**		1.01		mg/kg		06/10/11 10:06	06/10/11 20:02	1.00
Lead	**78.4**		1.01		mg/kg		06/10/11 10:06	06/10/11 20:02	1.00
Selenium	ND		2.02		mg/kg		06/10/11 10:06	06/10/11 20:02	1.00
Silver	ND		1.01		mg/kg		06/10/11 10:06	06/10/11 20:02	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.096		mg/kg		06/13/11 12:40	06/14/11 11:44	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**86.3**		0.500		%		06/10/11 14:26	06/13/11 08:29	1.00

Client Sample ID: F-01A (1-3) Lab Sample ID: NUF1504-03

Date Collected: 06/07/11 10:00 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 88.2**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0766**		0.0490		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Benzene	**0.00316**		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Bromochloromethane	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Bromodichloromethane	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Bromoform	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Bromomethane	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
2-Butanone	ND		0.0490		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Carbon disulfide	ND		0.00490		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Carbon Tetrachloride	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Chlorobenzene	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Chlorodibromomethane	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Chloroethane	ND		0.00490		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Chloroform	**0.00975**		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Chloromethane	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
1,2-Dibromoethane (EDB)	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Dibromomethane	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Dichlorodifluoromethane	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
1,1-Dichloroethane	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
1,2-Dichloroethane	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
cis-1,2-Dichloroethene	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
1,1-Dichloroethene	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
trans-1,2-Dichloroethene	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
1,3-Dichloropropane	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
1,2-Dichloropropane	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
2,2-Dichloropropane	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
cis-1,3-Dichloropropene	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
trans-1,3-Dichloropropene	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
1,1-Dichloropropene	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Ethylbenzene	**0.0418**		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
2-Hexanone	ND		0.0490		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Isopropylbenzene	**0.00976**	**L1**	0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Methyl tert-Butyl Ether	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Methylene Chloride	**0.133**		0.00980		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
4-Methyl-2-pentanone	ND		0.0490		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Styrene	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
1,1,1,2-Tetrachloroethane	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Tetrachloroethene	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Toluene	**0.0146**		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
1,1,2-Trichloroethane	ND		0.00490		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
1,1,1-Trichloroethane	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Trichloroethene	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Trichlorofluoromethane	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Vinyl chloride	ND		0.00196		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00
Xylenes, total	**0.249**		0.00490		mg/kg		06/16/11 11:57	06/16/11 13:22	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*110*		*67 - 138*	*06/16/11 11:57*	*06/16/11 13:22*	*1.00*
Dibromofluoromethane	*107*		*75 - 125*	*06/16/11 11:57*	*06/16/11 13:22*	*1.00*
Toluene-d8	*127*		*76 - 129*	*06/16/11 11:57*	*06/16/11 13:22*	*1.00*
4-Bromofluorobenzene	*175*	*ZX*	*67 - 147*	*06/16/11 11:57*	*06/16/11 13:22*	*1.00*

Client Sample ID: F-01A (1-3) Lab Sample ID: NUF1504-03

Date Collected: 06/07/11 10:00 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 88.2**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND	RL1	0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
1,2-Dibromo-3-chloropropane	ND	RL1	0.210		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
sec-Butylbenzene	ND	RL1	0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
n-Butylbenzene	**0.351**		0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
tert-Butylbenzene	ND	RL1	0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
2-Chlorotoluene	ND	RL1	0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
4-Chlorotoluene	ND	RL1	0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
1,4-Dichlorobenzene	ND	RL1	0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
1,3-Dichlorobenzene	ND	RL1	0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
1,2-Dichlorobenzene	ND	RL1	0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
Hexachlorobutadiene	ND	RL1	0.210		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
p-Isopropyltoluene	ND		0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
Naphthalene	**0.835**		0.210		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
n-Propylbenzene	**0.229**		0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
1,1,2,2-Tetrachloroethane	ND	RL1	0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
1,2,3-Trichlorobenzene	ND	RL1	0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
1,2,4-Trichlorobenzene	ND	RL1	0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
1,2,3-Trichloropropane	ND	RL1	0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
1,3,5-Trimethylbenzene	**0.603**		0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0
1,2,4-Trimethylbenzene	**1.89**		0.0842		mg/kg		06/10/11 12:12	06/16/11 13:50	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*97*		*67 - 138*	*06/10/11 12:12*	*06/16/11 13:50*	*50.0*
Dibromofluoromethane	*99*		*75 - 125*	*06/10/11 12:12*	*06/16/11 13:50*	*50.0*
Toluene-d8	*105*		*76 - 129*	*06/10/11 12:12*	*06/16/11 13:50*	*50.0*
4-Bromofluorobenzene	*100*		*67 - 147*	*06/10/11 12:12*	*06/16/11 13:50*	*50.0*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Acenaphthylene	ND		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Anthracene	ND		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Benzo (a) anthracene	ND		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Benzo (a) pyrene	ND		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Benzo (b) fluoranthene	ND		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Benzo (g,h,i) perylene	ND		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Benzo (k) fluoranthene	ND		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
4-Bromophenyl phenyl ether	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Butyl benzyl phthalate	**4.58**		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Carbazole	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
4-Chloro-3-methylphenol	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
4-Chloroaniline	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Bis(2-chloroethoxy)methane	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Bis(2-chloroethyl)ether	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Bis(2-chloroisopropyl)ether	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
2-Chloronaphthalene	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
2-Chlorophenol	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
4-Chlorophenyl phenyl ether	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Chrysene	**0.142**		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Dibenz (a,h) anthracene	ND		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Dibenzofuran	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00

Client Sample ID: F-01A (1-3) Lab Sample ID: NUF1504-03

Date Collected: 06/07/11 10:00 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 88.2**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	**1.11**		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
1,4-Dichlorobenzene	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
1,2-Dichlorobenzene	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
1,3-Dichlorobenzene	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
3,3-Dichlorobenzidine	ND		1.31		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
2,4-Dichlorophenol	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Diethyl phthalate	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
2,4-Dimethylphenol	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Dimethyl phthalate	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
4,6-Dinitro-2-methylphenol	ND		1.64		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
2,4-Dinitrophenol	ND		1.64		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
2,6-Dinitrotoluene	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
2,4-Dinitrotoluene	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Di-n-octyl phthalate	**0.792**		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Fluoranthene	**0.244**		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Fluorene	ND		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Hexachlorobenzene	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Hexachlorobutadiene	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Hexachlorocyclopentadiene	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Hexachloroethane	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Indeno (1,2,3-cd) pyrene	ND		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Isophorone	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
2-Methylnaphthalene	**1.33**		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
2-Methylphenol	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
3/4-Methylphenol	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Naphthalene	**0.772**		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
3-Nitroaniline	ND		1.64		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
2-Nitroaniline	ND		1.64		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
4-Nitroaniline	ND		1.64		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Nitrobenzene	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
4-Nitrophenol	ND		1.64		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
2-Nitrophenol	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
N-Nitrosodiphenylamine	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
N-Nitrosodi-n-propylamine	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Pentachlorophenol	ND		1.64		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Phenanthrene	**0.264**		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Phenol	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
Pyrene	**0.264**		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
1,2,4-Trichlorobenzene	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
1-Methylnaphthalene	**0.668**		0.132		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
2,4,6-Trichlorophenol	ND		0.656		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00
2,4,5-Trichlorophenol	ND		1.64		mg/kg		06/11/11 08:20	06/14/11 00:34	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*82*		*18 - 120*	*06/11/11 08:20*	*06/14/11 00:34*	*1.00*
2,4,6-Tribromophenol	*66*		*19 - 120*	*06/11/11 08:20*	*06/14/11 00:34*	*1.00*
Phenol-d5	*72*		*18 - 120*	*06/11/11 08:20*	*06/14/11 00:34*	*1.00*
2-Fluorobiphenyl	*73*		*14 - 120*	*06/11/11 08:20*	*06/14/11 00:34*	*1.00*
2-Fluorophenol	*66*		*17 - 120*	*06/11/11 08:20*	*06/14/11 00:34*	*1.00*
Nitrobenzene-d5	*73*		*17 - 120*	*06/11/11 08:20*	*06/14/11 00:34*	*1.00*

Client Sample ID: F-01A (1-3) Lab Sample ID: NUF1504-03

Date Collected: 06/07/11 10:00 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 88.2**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl)phthalate	8.18		1.31		mg/kg		06/11/11 08:20	06/14/11 17:21	2.00

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	586		39.1		mg/kg		06/10/11 13:45	06/11/11 13:53	10.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl		*Z3*	*53 - 140*	*06/10/11 13:45*	*06/11/11 13:53*	*10.0*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH - Oil Range	2140		78.1		mg/kg		06/10/11 13:45	06/11/11 19:33	20.0

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.164		mg/kg		06/11/11 07:20	06/15/11 05:32	5.00
PCB-1221	ND		0.164		mg/kg		06/11/11 07:20	06/15/11 05:32	5.00
PCB-1232	ND		0.164		mg/kg		06/11/11 07:20	06/15/11 05:32	5.00
PCB-1242	2.52		0.164		mg/kg		06/11/11 07:20	06/15/11 05:32	5.00
PCB-1248	ND		0.164		mg/kg		06/11/11 07:20	06/15/11 05:32	5.00
PCB-1254	1.44		0.164		mg/kg		06/11/11 07:20	06/15/11 05:32	5.00
PCB-1260	ND		0.164		mg/kg		06/11/11 07:20	06/15/11 05:32	5.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*100*		*19 - 147*	*06/11/11 07:20*	*06/15/11 05:32*	*5.00*
Decachlorobiphenyl	*110*		*20 - 150*	*06/11/11 07:20*	*06/15/11 05:32*	*5.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20.9		9.94		mg/kg		06/10/11 10:06	06/13/11 10:20	10.0
Barium	1310		19.9		mg/kg		06/10/11 10:06	06/13/11 10:20	10.0
Cadmium	ND		9.94		mg/kg		06/10/11 10:06	06/13/11 10:20	10.0
Chromium	136		9.94		mg/kg		06/10/11 10:06	06/13/11 10:20	10.0
Lead	1330		9.94		mg/kg		06/10/11 10:06	06/13/11 10:20	10.0
Selenium	ND		19.9		mg/kg		06/10/11 10:06	06/13/11 10:20	10.0
Silver	ND		9.94		mg/kg		06/10/11 10:06	06/13/11 10:20	10.0

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.65		0.096		mg/kg		06/13/11 12:40	06/14/11 11:47	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	88.2		0.500		%		06/10/11 14:26	06/13/11 08:22	1.00

Client Sample ID: F-01A (6-8) Lab Sample ID: NUF1504-04

Date Collected: 06/07/11 10:20 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 81.6**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.113**		0.0442		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Benzene	**0.00242**		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Bromochloromethane	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Bromodichloromethane	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Bromoform	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Bromomethane	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
2-Butanone	ND		0.0442		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Carbon disulfide	ND		0.00442		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Carbon Tetrachloride	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Chlorobenzene	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Chlorodibromomethane	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Chloroethane	ND		0.00442		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Chloroform	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Chloromethane	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
1,2-Dibromoethane (EDB)	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Dibromomethane	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Dichlorodifluoromethane	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
1,1-Dichloroethane	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
1,2-Dichloroethane	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
cis-1,2-Dichloroethene	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
1,1-Dichloroethene	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
trans-1,2-Dichloroethene	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
1,3-Dichloropropane	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
1,2-Dichloropropane	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
2,2-Dichloropropane	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
cis-1,3-Dichloropropene	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
trans-1,3-Dichloropropene	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
1,1-Dichloropropene	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Ethylbenzene	**0.00304**		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
2-Hexanone	ND		0.0442		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Isopropylbenzene	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Methyl tert-Butyl Ether	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Methylene Chloride	ND		0.00885		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
4-Methyl-2-pentanone	ND		0.0442		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Styrene	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
1,1,1,2-Tetrachloroethane	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Tetrachloroethene	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Toluene	**0.0101**		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
1,1,2-Trichloroethane	ND		0.00442		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
1,1,1-Trichloroethane	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Trichloroethene	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Trichlorofluoromethane	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Vinyl chloride	ND		0.00177		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00
Xylenes, total	**0.00627**		0.00442		mg/kg		06/10/11 12:13	06/16/11 04:29	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*100*		*67 - 138*	*06/10/11 12:13*	*06/16/11 04:29*	*1.00*
Dibromofluoromethane	*101*		*75 - 125*	*06/10/11 12:13*	*06/16/11 04:29*	*1.00*
Toluene-d8	*133*	*ZX*	*76 - 129*	*06/10/11 12:13*	*06/16/11 04:29*	*1.00*
4-Bromofluorobenzene	*160*	*ZX*	*67 - 147*	*06/10/11 12:13*	*06/16/11 04:29*	*1.00*

Client Sample ID: F-01A (6-8) Lab Sample ID: NUF1504-04

Date Collected: 06/07/11 10:20 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 81.6**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
1,2-Dibromo-3-chloropropane	ND	RL1	0.220		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
sec-Butylbenzene	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
n-Butylbenzene	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
tert-Butylbenzene	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
2-Chlorotoluene	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
4-Chlorotoluene	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
1,4-Dichlorobenzene	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
1,3-Dichlorobenzene	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
1,2-Dichlorobenzene	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
Hexachlorobutadiene	ND	RL1	0.220		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
p-Isopropyltoluene	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
Naphthalene	ND	RL1	0.220		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
n-Propylbenzene	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
1,1,2,2-Tetrachloroethane	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
1,2,3-Trichlorobenzene	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
1,2,4-Trichlorobenzene	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
1,2,3-Trichloropropane	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
1,3,5-Trimethylbenzene	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0
1,2,4-Trimethylbenzene	ND	RL1	0.0882		mg/kg		06/10/11 12:13	06/15/11 20:37	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*91*		*67 - 138*	*06/10/11 12:13*	*06/15/11 20:37*	*50.0*
Dibromofluoromethane	*95*		*75 - 125*	*06/10/11 12:13*	*06/15/11 20:37*	*50.0*
Toluene-d8	*103*		*76 - 129*	*06/10/11 12:13*	*06/15/11 20:37*	*50.0*
4-Bromofluorobenzene	*99*		*67 - 147*	*06/10/11 12:13*	*06/15/11 20:37*	*50.0*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Acenaphthylene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Anthracene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Benzo (a) anthracene	**0.350**		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Benzo (a) pyrene	**0.397**		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Benzo (b) fluoranthene	**0.566**		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Benzo (g,h,i) perylene	**0.464**		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Benzo (k) fluoranthene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
4-Bromophenyl phenyl ether	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Butyl benzyl phthalate	**4.50**		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Carbazole	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
4-Chloro-3-methylphenol	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
4-Chloroaniline	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Bis(2-chloroethoxy)methane	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Bis(2-chloroethyl)ether	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Bis(2-chloroisopropyl)ether	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
2-Chloronaphthalene	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
2-Chlorophenol	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
4-Chlorophenyl phenyl ether	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Chrysene	**0.468**		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Dibenz (a,h) anthracene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Dibenzofuran	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00

Client Sample ID: F-01A (6-8) Lab Sample ID: NUF1504-04

Date Collected: 06/07/11 10:20 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 81.6**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
1,4-Dichlorobenzene	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
1,2-Dichlorobenzene	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
1,3-Dichlorobenzene	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
3,3-Dichlorobenzidine	ND		3.25		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
2,4-Dichlorophenol	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Diethyl phthalate	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
2,4-Dimethylphenol	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Dimethyl phthalate	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
4,6-Dinitro-2-methylphenol	ND		4.06		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
2,4-Dinitrophenol	ND		4.06		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
2,6-Dinitrotoluene	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
2,4-Dinitrotoluene	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Di-n-octyl phthalate	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Bis(2-ethylhexyl)phthalate	**3.16**		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Fluoranthene	**0.631**		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Fluorene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Hexachlorobenzene	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Hexachlorobutadiene	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Hexachlorocyclopentadiene	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Hexachloroethane	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Indeno (1,2,3-cd) pyrene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Isophorone	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
2-Methylnaphthalene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
2-Methylphenol	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
3/4-Methylphenol	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Naphthalene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
3-Nitroaniline	ND		4.06		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
2-Nitroaniline	ND		4.06		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
4-Nitroaniline	ND		4.06		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Nitrobenzene	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
4-Nitrophenol	ND		4.06		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
2-Nitrophenol	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
N-Nitrosodiphenylamine	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
N-Nitrosodi-n-propylamine	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Pentachlorophenol	ND		4.06		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Phenanthrene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Phenol	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
Pyrene	**0.594**		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
1,2,4-Trichlorobenzene	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
1-Methylnaphthalene	ND		0.327		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
2,4,6-Trichlorophenol	ND		1.62		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00
2,4,5-Trichlorophenol	ND		4.06		mg/kg		06/11/11 08:20	06/14/11 00:55	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*84*		*18 - 120*	*06/11/11 08:20*	*06/14/11 00:55*	*1.00*
2,4,6-Tribromophenol	*59*		*19 - 120*	*06/11/11 08:20*	*06/14/11 00:55*	*1.00*
Phenol-d5	*76*		*18 - 120*	*06/11/11 08:20*	*06/14/11 00:55*	*1.00*
2-Fluorobiphenyl	*70*		*14 - 120*	*06/11/11 08:20*	*06/14/11 00:55*	*1.00*
2-Fluorophenol	*74*		*17 - 120*	*06/11/11 08:20*	*06/14/11 00:55*	*1.00*
Nitrobenzene-d5	*71*		*17 - 120*	*06/11/11 08:20*	*06/14/11 00:55*	*1.00*

Client Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1504

Client Sample ID: F-01A (6-8)

Date Collected: 06/07/11 10:20
Date Received: 06/09/11 08:55

Lab Sample ID: NUF1504-04

Matrix: Soil
Percent Solids: 81.6

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		3.98		mg/kg		06/10/11 13:45	06/13/11 15:15	1.00
TPH - Oil Range	**4.26**		3.98		mg/kg		06/10/11 13:45	06/13/11 15:15	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*53 - 140*	*06/10/11 13:45*	*06/13/11 15:15*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.323		mg/kg		06/11/11 07:20	06/13/11 20:31	10.0
PCB-1221	ND		0.323		mg/kg		06/11/11 07:20	06/13/11 20:31	10.0
PCB-1232	ND		0.323		mg/kg		06/11/11 07:20	06/13/11 20:31	10.0
PCB-1242	ND		0.323		mg/kg		06/11/11 07:20	06/13/11 20:31	10.0
PCB-1248	ND		0.323		mg/kg		06/11/11 07:20	06/13/11 20:31	10.0
PCB-1254	**1.94**		0.323		mg/kg		06/11/11 07:20	06/13/11 20:31	10.0
PCB-1260	ND		0.323		mg/kg		06/11/11 07:20	06/13/11 20:31	10.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*60*		*19 - 147*	*06/11/11 07:20*	*06/13/11 20:31*	*10.0*
Decachlorobiphenyl	*120*		*20 - 150*	*06/11/11 07:20*	*06/13/11 20:31*	*10.0*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.51**		0.980		mg/kg		06/10/11 10:06	06/10/11 20:08	1.00
Barium	**121**		1.96		mg/kg		06/10/11 10:06	06/10/11 20:08	1.00
Cadmium	ND		0.980		mg/kg		06/10/11 10:06	06/10/11 20:08	1.00
Chromium	**18.4**		0.980		mg/kg		06/10/11 10:06	06/10/11 20:08	1.00
Lead	**7.94**		0.980		mg/kg		06/10/11 10:06	06/10/11 20:08	1.00
Selenium	ND		1.96		mg/kg		06/10/11 10:06	06/10/11 20:08	1.00
Silver	ND		0.980		mg/kg		06/10/11 10:06	06/10/11 20:08	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.096		mg/kg		06/13/11 12:40	06/14/11 11:49	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**81.6**		0.500		%		06/10/11 14:26	06/13/11 08:22	1.00

Client Sample ID: F-01A (9.5-10.5) Lab Sample ID: NUF1504-05

Date Collected: 06/07/11 10:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 79.4**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0625**	**PX**	0.0477		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Benzene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Bromobenzene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Bromochloromethane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Bromodichloromethane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Bromoform	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Bromomethane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00477		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
2-Butanone	ND	PX	0.0477		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
sec-Butylbenzene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
n-Butylbenzene	**0.00660**	**PX**	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
tert-Butylbenzene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Carbon disulfide	ND	PX	0.00477		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Carbon Tetrachloride	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Chlorobenzene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Chlorodibromomethane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Chloroethane	ND	PX	0.00477		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Chloroform	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Chloromethane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
2-Chlorotoluene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
4-Chlorotoluene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Dibromomethane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,4-Dichlorobenzene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,3-Dichlorobenzene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,2-Dichlorobenzene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Dichlorodifluoromethane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,1-Dichloroethane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,2-Dichloroethane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
cis-1,2-Dichloroethene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,1-Dichloroethene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
trans-1,2-Dichloroethene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,3-Dichloropropane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,2-Dichloropropane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
2,2-Dichloropropane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
cis-1,3-Dichloropropene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
trans-1,3-Dichloropropene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,1-Dichloropropene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Ethylbenzene	**0.00654**	**PX**	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Hexachlorobutadiene	ND	PX	0.00477		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
2-Hexanone	ND	PX	0.0477		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Isopropylbenzene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
p-Isopropyltoluene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Methyl tert-Butyl Ether	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Methylene Chloride	ND	PX	0.00954		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
4-Methyl-2-pentanone	ND	PX	0.0477		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Naphthalene	**0.0123**	**PX**	0.00477		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
n-Propylbenzene	**0.00618**	**PX**	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Styrene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00

Client Sample ID: F-01A (9.5-10.5) Lab Sample ID: NUF1504-05

Date Collected: 06/07/11 10:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 79.4**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Tetrachloroethene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Toluene	**0.00292**	**PX**	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,2,3-Trichlorobenzene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,2,4-Trichlorobenzene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,1,2-Trichloroethane	ND	PX	0.00477		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,1,1-Trichloroethane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Trichloroethene	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Trichlorofluoromethane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,2,3-Trichloropropane	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,3,5-Trimethylbenzene	**0.0175**	**PX**	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
1,2,4-Trimethylbenzene	**0.0543**	**PX**	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Vinyl chloride	ND	PX	0.00191		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00
Xylenes, total	**0.0464**	**PX**	0.00477		mg/kg		06/10/11 12:15	06/11/11 00:12	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*101*		*67 - 138*	*06/10/11 12:15*	*06/11/11 00:12*	*1.00*
Dibromofluoromethane	*97*		*75 - 125*	*06/10/11 12:15*	*06/11/11 00:12*	*1.00*
Toluene-d8	*96*		*76 - 129*	*06/10/11 12:15*	*06/11/11 00:12*	*1.00*
4-Bromofluorobenzene	*107*		*67 - 147*	*06/10/11 12:15*	*06/11/11 00:12*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Acenaphthylene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Anthracene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Benzo (a) anthracene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Benzo (a) pyrene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Benzo (b) fluoranthene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Benzo (g,h,i) perylene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Benzo (k) fluoranthene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
4-Bromophenyl phenyl ether	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Butyl benzyl phthalate	**0.414**		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Carbazole	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
4-Chloro-3-methylphenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
4-Chloroaniline	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Bis(2-chloroethoxy)methane	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Bis(2-chloroethyl)ether	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Bis(2-chloroisopropyl)ether	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
2-Chloronaphthalene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
2-Chlorophenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
4-Chlorophenyl phenyl ether	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Chrysene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Dibenz (a,h) anthracene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Dibenzofuran	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Di-n-butyl phthalate	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
1,4-Dichlorobenzene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
1,2-Dichlorobenzene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
1,3-Dichlorobenzene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
3,3-Dichlorobenzidine	ND		0.649		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
2,4-Dichlorophenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00

Client Sample ID: F-01A (9.5-10.5) Lab Sample ID: NUF1504-05

Date Collected: 06/07/11 10:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 79.4**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
2,4-Dimethylphenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Dimethyl phthalate	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
4,6-Dinitro-2-methylphenol	ND		0.811		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
2,4-Dinitrophenol	ND		0.811		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
2,6-Dinitrotoluene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
2,4-Dinitrotoluene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Di-n-octyl phthalate	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Bis(2-ethylhexyl)phthalate	**0.464**		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Fluoranthene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Fluorene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Hexachlorobenzene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Hexachlorobutadiene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Hexachlorocyclopentadiene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Hexachloroethane	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Isophorone	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
2-Methylnaphthalene	**0.0717**		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
2-Methylphenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
3/4-Methylphenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Naphthalene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
3-Nitroaniline	ND		0.811		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
2-Nitroaniline	ND		0.811		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
4-Nitroaniline	ND		0.811		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Nitrobenzene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
4-Nitrophenol	ND		0.811		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
2-Nitrophenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
N-Nitrosodiphenylamine	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
N-Nitrosodi-n-propylamine	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Pentachlorophenol	ND		0.811		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Phenanthrene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Phenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
Pyrene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
1,2,4-Trichlorobenzene	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
1-Methylnaphthalene	ND		0.0652		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
2,4,6-Trichlorophenol	ND		0.324		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00
2,4,5-Trichlorophenol	ND		0.811		mg/kg		06/11/11 08:20	06/14/11 01:15	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*76*		*18 - 120*	*06/11/11 08:20*	*06/14/11 01:15*	*1.00*
2,4,6-Tribromophenol	*58*		*19 - 120*	*06/11/11 08:20*	*06/14/11 01:15*	*1.00*
Phenol-d5	*60*		*18 - 120*	*06/11/11 08:20*	*06/14/11 01:15*	*1.00*
2-Fluorobiphenyl	*59*		*14 - 120*	*06/11/11 08:20*	*06/14/11 01:15*	*1.00*
2-Fluorophenol	*57*		*17 - 120*	*06/11/11 08:20*	*06/14/11 01:15*	*1.00*
Nitrobenzene-d5	*56*		*17 - 120*	*06/11/11 08:20*	*06/14/11 01:15*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		3.92		mg/kg		06/10/11 13:45	06/11/11 12:33	1.00
TPH - Oil Range	ND		3.92		mg/kg		06/10/11 13:45	06/11/11 12:33	1.00

Client Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1504

Client Sample ID: F-01A (9.5-10.5)

Lab Sample ID: NUF1504-05

Date Collected: 06/07/11 10:30
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 79.4

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*53 - 140*	*06/10/11 13:45*	*06/11/11 12:33*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 21:58	1.00
PCB-1221	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 21:58	1.00
PCB-1232	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 21:58	1.00
PCB-1242	**0.378**		0.0325		mg/kg		06/11/11 07:20	06/13/11 21:58	1.00
PCB-1248	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 21:58	1.00
PCB-1254	**0.140**		0.0325		mg/kg		06/11/11 07:20	06/13/11 21:58	1.00
PCB-1260	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 21:58	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*74*		*19 - 147*	*06/11/11 07:20*	*06/13/11 21:58*	*1.00*
Decachlorobiphenyl	*140*		*20 - 150*	*06/11/11 07:20*	*06/13/11 21:58*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.85**		0.988		mg/kg		06/10/11 10:06	06/10/11 20:11	1.00
Barium	**85.7**		1.98		mg/kg		06/10/11 10:06	06/10/11 20:11	1.00
Cadmium	ND		0.988		mg/kg		06/10/11 10:06	06/10/11 20:11	1.00
Chromium	**17.6**		0.988		mg/kg		06/10/11 10:06	06/10/11 20:11	1.00
Lead	**8.97**		0.988		mg/kg		06/10/11 10:06	06/10/11 20:11	1.00
Selenium	ND		1.98		mg/kg		06/10/11 10:06	06/10/11 20:11	1.00
Silver	ND		0.988		mg/kg		06/10/11 10:06	06/10/11 20:11	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.097		mg/kg		06/13/11 12:40	06/14/11 11:58	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**79.4**		0.500		%		06/10/11 14:26	06/13/11 08:22	1.00

Client Sample ID: F-06 (1-2) Lab Sample ID: NUF1504-06

Date Collected: 06/07/11 14:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 82.5**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	PX	0.0457		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Benzene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Bromobenzene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Bromochloromethane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Bromodichloromethane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Bromoform	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Bromomethane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00457		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
2-Butanone	ND	PX	0.0457		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
sec-Butylbenzene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
n-Butylbenzene	**0.0273**	**PX**	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
tert-Butylbenzene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Carbon disulfide	ND	PX	0.00457		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Carbon Tetrachloride	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Chlorobenzene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Chlorodibromomethane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Chloroethane	ND	PX	0.00457		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Chloroform	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Chloromethane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
2-Chlorotoluene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
4-Chlorotoluene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Dibromomethane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,4-Dichlorobenzene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,3-Dichlorobenzene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,2-Dichlorobenzene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Dichlorodifluoromethane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,1-Dichloroethane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,2-Dichloroethane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
cis-1,2-Dichloroethene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,1-Dichloroethene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
trans-1,2-Dichloroethene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,3-Dichloropropane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,2-Dichloropropane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
2,2-Dichloropropane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
cis-1,3-Dichloropropene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
trans-1,3-Dichloropropene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,1-Dichloropropene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Ethylbenzene	**0.00242**	**PX**	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Hexachlorobutadiene	ND	PX	0.00457		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
2-Hexanone	ND	PX	0.0457		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Isopropylbenzene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
p-Isopropyltoluene	**0.0256**	**PX**	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Methyl tert-Butyl Ether	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Methylene Chloride	ND	PX	0.00914		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
4-Methyl-2-pentanone	ND	PX	0.0457		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Naphthalene	**0.0101**	**PX**	0.00457		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
n-Propylbenzene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Styrene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00

Client Sample ID: F-06 (1-2) Lab Sample ID: NUF1504-06

Date Collected: 06/07/11 14:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 82.5**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Tetrachloroethene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Toluene	**0.00470**	**PX**	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,2,3-Trichlorobenzene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,2,4-Trichlorobenzene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,1,2-Trichloroethane	ND	PX	0.00457		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,1,1-Trichloroethane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Trichloroethene	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Trichlorofluoromethane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,2,3-Trichloropropane	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,3,5-Trimethylbenzene	**0.0910**	**PX**	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
1,2,4-Trimethylbenzene	**0.00933**	**PX**	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Vinyl chloride	ND	PX	0.00183		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00
Xylenes, total	**0.0226**	**PX**	0.00457		mg/kg		06/10/11 12:18	06/11/11 00:43	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*104*		*67 - 138*	*06/10/11 12:18*	*06/11/11 00:43*	*1.00*
Dibromofluoromethane	*100*		*75 - 125*	*06/10/11 12:18*	*06/11/11 00:43*	*1.00*
Toluene-d8	*104*		*76 - 129*	*06/10/11 12:18*	*06/11/11 00:43*	*1.00*
4-Bromofluorobenzene	*177*	*ZX*	*67 - 147*	*06/10/11 12:18*	*06/11/11 00:43*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Acenaphthylene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Anthracene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Benzo (a) anthracene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Benzo (a) pyrene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Benzo (b) fluoranthene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Benzo (g,h,i) perylene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Benzo (k) fluoranthene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
4-Bromophenyl phenyl ether	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Butyl benzyl phthalate	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Carbazole	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
4-Chloro-3-methylphenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
4-Chloroaniline	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Bis(2-chloroethoxy)methane	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Bis(2-chloroethyl)ether	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Bis(2-chloroisopropyl)ether	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
2-Chloronaphthalene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
2-Chlorophenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
4-Chlorophenyl phenyl ether	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Chrysene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Dibenz (a,h) anthracene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Dibenzofuran	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Di-n-butyl phthalate	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
1,4-Dichlorobenzene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
1,2-Dichlorobenzene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
1,3-Dichlorobenzene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
3,3-Dichlorobenzidine	ND		0.662		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
2,4-Dichlorophenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00

Client Sample ID: F-06 (1-2) Lab Sample ID: NUF1504-06

Date Collected: 06/07/11 14:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 82.5**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
2,4-Dimethylphenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Dimethyl phthalate	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
4,6-Dinitro-2-methylphenol	ND		0.827		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
2,4-Dinitrophenol	ND		0.827		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
2,6-Dinitrotoluene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
2,4-Dinitrotoluene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Di-n-octyl phthalate	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Bis(2-ethylhexyl)phthalate	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Fluoranthene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Fluorene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Hexachlorobenzene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Hexachlorobutadiene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Hexachlorocyclopentadiene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Hexachloroethane	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Isophorone	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
2-Methylnaphthalene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
2-Methylphenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
3/4-Methylphenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Naphthalene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
3-Nitroaniline	ND		0.827		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
2-Nitroaniline	ND		0.827		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
4-Nitroaniline	ND		0.827		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Nitrobenzene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
4-Nitrophenol	ND		0.827		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
2-Nitrophenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
N-Nitrosodiphenylamine	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
N-Nitrosodi-n-propylamine	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Pentachlorophenol	ND		0.827		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Phenanthrene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Phenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
Pyrene	**0.0672**		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
1,2,4-Trichlorobenzene	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
1-Methylnaphthalene	ND		0.0665		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
2,4,6-Trichlorophenol	ND		0.331		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00
2,4,5-Trichlorophenol	ND		0.827		mg/kg		06/11/11 08:20	06/14/11 01:36	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*75*		*18 - 120*	*06/11/11 08:20*	*06/14/11 01:36*	*1.00*
2,4,6-Tribromophenol	*52*		*19 - 120*	*06/11/11 08:20*	*06/14/11 01:36*	*1.00*
Phenol-d5	*60*		*18 - 120*	*06/11/11 08:20*	*06/14/11 01:36*	*1.00*
2-Fluorobiphenyl	*58*		*14 - 120*	*06/11/11 08:20*	*06/14/11 01:36*	*1.00*
2-Fluorophenol	*55*		*17 - 120*	*06/11/11 08:20*	*06/14/11 01:36*	*1.00*
Nitrobenzene-d5	*59*		*17 - 120*	*06/11/11 08:20*	*06/14/11 01:36*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**3080**		78.3		mg/kg		06/10/11 13:45	06/11/11 19:01	20.0
TPH - Oil Range	**1670**		78.3		mg/kg		06/10/11 13:45	06/11/11 19:01	20.0

Client Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1504

Client Sample ID: F-06 (1-2)

Date Collected: 06/07/11 14:30
Date Received: 06/09/11 08:55

Lab Sample ID: NUF1504-06

Matrix: Soil
Percent Solids: 82.5

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl		Z3	53 - 140	06/10/11 13:45	06/11/11 19:01	20.0

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0326		mg/kg		06/11/11 07:20	06/13/11 22:19	1.00
PCB-1221	ND		0.0326		mg/kg		06/11/11 07:20	06/13/11 22:19	1.00
PCB-1232	ND		0.0326		mg/kg		06/11/11 07:20	06/13/11 22:19	1.00
PCB-1242	ND		0.0326		mg/kg		06/11/11 07:20	06/13/11 22:19	1.00
PCB-1248	ND		0.0326		mg/kg		06/11/11 07:20	06/13/11 22:19	1.00
PCB-1254	**0.168**		0.0326		mg/kg		06/11/11 07:20	06/13/11 22:19	1.00
PCB-1260	ND		0.0326		mg/kg		06/11/11 07:20	06/13/11 22:19	1.00

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-meta-xylene	66		19 - 147	06/11/11 07:20	06/13/11 22:19	1.00
Decachlorobiphenyl	96		20 - 150	06/11/11 07:20	06/13/11 22:19	1.00

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**11.0**		0.998		mg/kg		06/10/11 10:06	06/10/11 20:14	1.00
Barium	**245**		2.00		mg/kg		06/10/11 10:06	06/10/11 20:14	1.00
Cadmium	**21.3**		0.998		mg/kg		06/10/11 10:06	06/10/11 20:14	1.00
Chromium	**36.3**		0.998		mg/kg		06/10/11 10:06	06/10/11 20:14	1.00
Lead	**2700**		0.998		mg/kg		06/10/11 10:06	06/10/11 20:14	1.00
Selenium	ND		2.00		mg/kg		06/10/11 10:06	06/10/11 20:14	1.00
Silver	**2.79**		0.998		mg/kg		06/10/11 10:06	06/10/11 20:14	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.43**		0.096		mg/kg		06/13/11 12:40	06/14/11 12:00	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**82.5**		0.500		%		06/10/11 14:26	06/13/11 08:22	1.00

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1504

Client Sample ID: F-06 (4-6)

Lab Sample ID: NUF1504-07

Date Collected: 06/07/11 14:35
Date Received: 06/09/11 08:55

Matrix: Soil
Percent Solids: 82

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	PX	0.0426		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Benzene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Bromobenzene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Bromochloromethane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Bromodichloromethane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Bromoform	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Bromomethane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00426		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
2-Butanone	ND	PX	0.0426		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
sec-Butylbenzene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
n-Butylbenzene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
tert-Butylbenzene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Carbon disulfide	ND	PX	0.00426		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Carbon Tetrachloride	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Chlorobenzene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Chlorodibromomethane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Chloroethane	ND	PX	0.00426		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Chloroform	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Chloromethane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
2-Chlorotoluene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
4-Chlorotoluene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Dibromomethane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,4-Dichlorobenzene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,3-Dichlorobenzene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,2-Dichlorobenzene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Dichlorodifluoromethane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,1-Dichloroethane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,2-Dichloroethane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
cis-1,2-Dichloroethene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,1-Dichloroethene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
trans-1,2-Dichloroethene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,3-Dichloropropane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,2-Dichloropropane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
2,2-Dichloropropane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
cis-1,3-Dichloropropene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
trans-1,3-Dichloropropene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,1-Dichloropropene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Ethylbenzene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Hexachlorobutadiene	ND	PX	0.00426		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
2-Hexanone	ND	PX	0.0426		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Isopropylbenzene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
p-Isopropyltoluene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Methyl tert-Butyl Ether	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Methylene Chloride	ND	PX	0.00852		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
4-Methyl-2-pentanone	ND	PX	0.0426		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Naphthalene	ND	PX	0.00426		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
n-Propylbenzene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Styrene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00

Client Sample ID: F-06 (4-6) Lab Sample ID: NUF1504-07

Date Collected: 06/07/11 14:35 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 82**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Tetrachloroethene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Toluene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,2,3-Trichlorobenzene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,2,4-Trichlorobenzene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,1,2-Trichloroethane	ND	PX	0.00426		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,1,1-Trichloroethane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Trichloroethene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Trichlorofluoromethane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,2,3-Trichloropropane	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,3,5-Trimethylbenzene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
1,2,4-Trimethylbenzene	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Vinyl chloride	ND	PX	0.00170		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00
Xylenes, total	ND	PX	0.00426		mg/kg		06/10/11 12:20	06/11/11 01:14	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*104*		*67 - 138*	*06/10/11 12:20*	*06/11/11 01:14*	*1.00*
Dibromofluoromethane	*97*		*75 - 125*	*06/10/11 12:20*	*06/11/11 01:14*	*1.00*
Toluene-d8	*94*		*76 - 129*	*06/10/11 12:20*	*06/11/11 01:14*	*1.00*
4-Bromofluorobenzene	*101*		*67 - 147*	*06/10/11 12:20*	*06/11/11 01:14*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Acenaphthylene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Anthracene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Benzo (a) anthracene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Benzo (a) pyrene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Benzo (b) fluoranthene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Benzo (g,h,i) perylene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Benzo (k) fluoranthene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
4-Bromophenyl phenyl ether	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Butyl benzyl phthalate	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Carbazole	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
4-Chloro-3-methylphenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
4-Chloroaniline	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Bis(2-chloroethoxy)methane	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Bis(2-chloroethyl)ether	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Bis(2-chloroisopropyl)ether	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
2-Chloronaphthalene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
2-Chlorophenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
4-Chlorophenyl phenyl ether	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Chrysene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Dibenz (a,h) anthracene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Dibenzofuran	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Di-n-butyl phthalate	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
1,4-Dichlorobenzene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
1,2-Dichlorobenzene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
1,3-Dichlorobenzene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
3,3-Dichlorobenzidine	ND		0.651		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
2,4-Dichlorophenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00

Client Sample ID: F-06 (4-6) Lab Sample ID: NUF1504-07

Date Collected: 06/07/11 14:35 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 82**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
2,4-Dimethylphenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Dimethyl phthalate	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
4,6-Dinitro-2-methylphenol	ND		0.813		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
2,4-Dinitrophenol	ND		0.813		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
2,6-Dinitrotoluene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
2,4-Dinitrotoluene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Di-n-octyl phthalate	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Bis(2-ethylhexyl)phthalate	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Fluoranthene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Fluorene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Hexachlorobenzene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Hexachlorobutadiene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Hexachlorocyclopentadiene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Hexachloroethane	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Isophorone	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
2-Methylnaphthalene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
2-Methylphenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
3/4-Methylphenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Naphthalene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
3-Nitroaniline	ND		0.813		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
2-Nitroaniline	ND		0.813		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
4-Nitroaniline	ND		0.813		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Nitrobenzene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
4-Nitrophenol	ND		0.813		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
2-Nitrophenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
N-Nitrosodiphenylamine	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
N-Nitrosodi-n-propylamine	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Pentachlorophenol	ND		0.813		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Phenanthrene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Phenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
Pyrene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
1,2,4-Trichlorobenzene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
1-Methylnaphthalene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
2,4,6-Trichlorophenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00
2,4,5-Trichlorophenol	ND		0.813		mg/kg		06/11/11 08:20	06/14/11 01:57	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*76*		*18 - 120*	*06/11/11 08:20*	*06/14/11 01:57*	*1.00*
2,4,6-Tribromophenol	*54*		*19 - 120*	*06/11/11 08:20*	*06/14/11 01:57*	*1.00*
Phenol-d5	*62*		*18 - 120*	*06/11/11 08:20*	*06/14/11 01:57*	*1.00*
2-Fluorobiphenyl	*58*		*14 - 120*	*06/11/11 08:20*	*06/14/11 01:57*	*1.00*
2-Fluorophenol	*63*		*17 - 120*	*06/11/11 08:20*	*06/14/11 01:57*	*1.00*
Nitrobenzene-d5	*53*		*17 - 120*	*06/11/11 08:20*	*06/14/11 01:57*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**13.5**		3.95		mg/kg		06/13/11 09:25	06/13/11 22:32	1.00
TPH - Oil Range	**10.0**		3.95		mg/kg		06/13/11 09:25	06/13/11 22:32	1.00

Client Sample ID: F-06 (4-6) Lab Sample ID: NUF1504-07

Date Collected: 06/07/11 14:35 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 82**

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	69		53 - 140	06/13/11 09:25	06/13/11 22:32	1.00

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0324		mg/kg		06/11/11 07:20	06/13/11 22:41	1.00
PCB-1221	ND		0.0324		mg/kg		06/11/11 07:20	06/13/11 22:41	1.00
PCB-1232	ND		0.0324		mg/kg		06/11/11 07:20	06/13/11 22:41	1.00
PCB-1242	ND		0.0324		mg/kg		06/11/11 07:20	06/13/11 22:41	1.00
PCB-1248	ND		0.0324		mg/kg		06/11/11 07:20	06/13/11 22:41	1.00
PCB-1254	ND		0.0324		mg/kg		06/11/11 07:20	06/13/11 22:41	1.00
PCB-1260	ND		0.0324		mg/kg		06/11/11 07:20	06/13/11 22:41	1.00

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-meta-xylene	80		19 - 147	06/11/11 07:20	06/13/11 22:41	1.00
Decachlorobiphenyl	98		20 - 150	06/11/11 07:20	06/13/11 22:41	1.00

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.59**		0.998		mg/kg		06/10/11 10:06	06/10/11 20:17	1.00
Barium	**82.4**		2.00		mg/kg		06/10/11 10:06	06/10/11 20:17	1.00
Cadmium	ND		0.998		mg/kg		06/10/11 10:06	06/10/11 20:17	1.00
Chromium	**24.4**		0.998		mg/kg		06/10/11 10:06	06/10/11 20:17	1.00
Lead	**19.5**		0.998		mg/kg		06/10/11 10:06	06/10/11 20:17	1.00
Selenium	ND		2.00		mg/kg		06/10/11 10:06	06/10/11 20:17	1.00
Silver	ND		0.998		mg/kg		06/10/11 10:06	06/10/11 20:17	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.096		mg/kg		06/13/11 12:40	06/14/11 12:02	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**82.0**		0.500		%		06/10/11 14:26	06/13/11 08:22	1.00

Client Sample ID: F-06 (8-9) Lab Sample ID: NUF1504-08

Date Collected: 06/07/11 14:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 85.8**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	PX	0.0450		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Benzene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Bromobenzene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Bromochloromethane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Bromodichloromethane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Bromoform	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Bromomethane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00450		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
2-Butanone	ND	PX	0.0450		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
sec-Butylbenzene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
n-Butylbenzene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
tert-Butylbenzene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Carbon disulfide	ND	PX	0.00450		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Carbon Tetrachloride	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Chlorobenzene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Chlorodibromomethane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Chloroethane	ND	PX	0.00450		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Chloroform	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Chloromethane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
2-Chlorotoluene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
4-Chlorotoluene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Dibromomethane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,4-Dichlorobenzene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,3-Dichlorobenzene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,2-Dichlorobenzene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Dichlorodifluoromethane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,1-Dichloroethane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,2-Dichloroethane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
cis-1,2-Dichloroethene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,1-Dichloroethene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
trans-1,2-Dichloroethene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,3-Dichloropropane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,2-Dichloropropane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
2,2-Dichloropropane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
cis-1,3-Dichloropropene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
trans-1,3-Dichloropropene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,1-Dichloropropene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Ethylbenzene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Hexachlorobutadiene	ND	PX	0.00450		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
2-Hexanone	ND	PX	0.0450		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Isopropylbenzene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
p-Isopropyltoluene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Methyl tert-Butyl Ether	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Methylene Chloride	ND	PX	0.00899		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
4-Methyl-2-pentanone	ND	PX	0.0450		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Naphthalene	ND	PX	0.00450		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
n-Propylbenzene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Styrene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00

Client Sample ID: F-06 (8-9) Lab Sample ID: NUF1504-08

Date Collected: 06/07/11 14:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 85.8**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Tetrachloroethene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Toluene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,2,3-Trichlorobenzene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,2,4-Trichlorobenzene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,1,2-Trichloroethane	ND	PX	0.00450		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,1,1-Trichloroethane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Trichloroethene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Trichlorofluoromethane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,2,3-Trichloropropane	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,3,5-Trimethylbenzene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
1,2,4-Trimethylbenzene	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Vinyl chloride	ND	PX	0.00180		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00
Xylenes, total	ND	PX	0.00450		mg/kg		06/10/11 12:25	06/11/11 01:46	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*104*		*67 - 138*	*06/10/11 12:25*	*06/11/11 01:46*	*1.00*
Dibromofluoromethane	*97*		*75 - 125*	*06/10/11 12:25*	*06/11/11 01:46*	*1.00*
Toluene-d8	*94*		*76 - 129*	*06/10/11 12:25*	*06/11/11 01:46*	*1.00*
4-Bromofluorobenzene	*102*		*67 - 147*	*06/10/11 12:25*	*06/11/11 01:46*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Acenaphthylene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Anthracene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Benzo (a) anthracene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Benzo (a) pyrene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Benzo (b) fluoranthene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Benzo (g,h,i) perylene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Benzo (k) fluoranthene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
4-Bromophenyl phenyl ether	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Butyl benzyl phthalate	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Carbazole	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
4-Chloro-3-methylphenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
4-Chloroaniline	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Bis(2-chloroethoxy)methane	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Bis(2-chloroethyl)ether	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Bis(2-chloroisopropyl)ether	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
2-Chloronaphthalene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
2-Chlorophenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
4-Chlorophenyl phenyl ether	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Chrysene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Dibenz (a,h) anthracene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Dibenzofuran	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Di-n-butyl phthalate	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
1,4-Dichlorobenzene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
1,2-Dichlorobenzene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
1,3-Dichlorobenzene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
3,3-Dichlorobenzidine	ND		0.651		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
2,4-Dichlorophenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00

Client Sample ID: F-06 (8-9) Lab Sample ID: NUF1504-08

Date Collected: 06/07/11 14:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 85.8**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
2,4-Dimethylphenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Dimethyl phthalate	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
4,6-Dinitro-2-methylphenol	ND		0.813		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
2,4-Dinitrophenol	ND		0.813		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
2,6-Dinitrotoluene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
2,4-Dinitrotoluene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Di-n-octyl phthalate	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Bis(2-ethylhexyl)phthalate	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Fluoranthene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Fluorene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Hexachlorobenzene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Hexachlorobutadiene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Hexachlorocyclopentadiene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Hexachloroethane	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Isophorone	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
2-Methylnaphthalene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
2-Methylphenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
3/4-Methylphenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Naphthalene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
3-Nitroaniline	ND		0.813		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
2-Nitroaniline	ND		0.813		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
4-Nitroaniline	ND		0.813		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Nitrobenzene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
4-Nitrophenol	ND		0.813		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
2-Nitrophenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
N-Nitrosodiphenylamine	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
N-Nitrosodi-n-propylamine	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Pentachlorophenol	ND		0.813		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Phenanthrene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Phenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
Pyrene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
1,2,4-Trichlorobenzene	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
1-Methylnaphthalene	ND		0.0654		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
2,4,6-Trichlorophenol	ND		0.325		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00
2,4,5-Trichlorophenol	ND		0.813		mg/kg		06/11/11 08:20	06/14/11 02:18	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*83*		*18 - 120*	*06/11/11 08:20*	*06/14/11 02:18*	*1.00*
2,4,6-Tribromophenol	*55*		*19 - 120*	*06/11/11 08:20*	*06/14/11 02:18*	*1.00*
Phenol-d5	*66*		*18 - 120*	*06/11/11 08:20*	*06/14/11 02:18*	*1.00*
2-Fluorobiphenyl	*62*		*14 - 120*	*06/11/11 08:20*	*06/14/11 02:18*	*1.00*
2-Fluorophenol	*63*		*17 - 120*	*06/11/11 08:20*	*06/14/11 02:18*	*1.00*
Nitrobenzene-d5	*60*		*17 - 120*	*06/11/11 08:20*	*06/14/11 02:18*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**50.4**		3.86		mg/kg		06/13/11 09:25	06/13/11 22:49	1.00
TPH - Oil Range	**41.1**		3.86		mg/kg		06/13/11 09:25	06/13/11 22:49	1.00

Client Sample ID: F-06 (8-9) Lab Sample ID: NUF1504-08

Date Collected: 06/07/11 14:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 85.8**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*53 - 140*	*06/13/11 09:25*	*06/13/11 22:49*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0329		mg/kg		06/11/11 07:20	06/13/11 23:02	1.00
PCB-1221	ND		0.0329		mg/kg		06/11/11 07:20	06/13/11 23:02	1.00
PCB-1232	ND		0.0329		mg/kg		06/11/11 07:20	06/13/11 23:02	1.00
PCB-1242	ND		0.0329		mg/kg		06/11/11 07:20	06/13/11 23:02	1.00
PCB-1248	ND		0.0329		mg/kg		06/11/11 07:20	06/13/11 23:02	1.00
PCB-1254	ND		0.0329		mg/kg		06/11/11 07:20	06/13/11 23:02	1.00
PCB-1260	ND		0.0329		mg/kg		06/11/11 07:20	06/13/11 23:02	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*76*		*19 - 147*	*06/11/11 07:20*	*06/13/11 23:02*	*1.00*
Decachlorobiphenyl	*92*		*20 - 150*	*06/11/11 07:20*	*06/13/11 23:02*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.05**		0.992		mg/kg		06/10/11 10:06	06/10/11 20:20	1.00
Barium	**70.1**		1.98		mg/kg		06/10/11 10:06	06/10/11 20:20	1.00
Cadmium	ND		0.992		mg/kg		06/10/11 10:06	06/10/11 20:20	1.00
Chromium	**26.9**		0.992		mg/kg		06/10/11 10:06	06/10/11 20:20	1.00
Lead	**33.3**		0.992		mg/kg		06/10/11 10:06	06/10/11 20:20	1.00
Selenium	ND		1.98		mg/kg		06/10/11 10:06	06/10/11 20:20	1.00
Silver	ND		0.992		mg/kg		06/10/11 10:06	06/10/11 20:20	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.10		mg/kg		06/13/11 12:40	06/14/11 12:05	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**85.8**		0.500		%		06/10/11 14:26	06/13/11 08:22	1.00

Client Sample ID: F-07A (0-1) Lab Sample ID: NUF1504-09

Date Collected: 06/07/11 12:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 70**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0484		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Benzene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Bromobenzene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Bromochloromethane	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Bromodichloromethane	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Bromoform	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Bromomethane	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,2-Dibromo-3-chloropropane	ND		0.00484		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
2-Butanone	ND		0.0484		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
sec-Butylbenzene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
n-Butylbenzene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
tert-Butylbenzene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Carbon disulfide	ND		0.00484		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Carbon Tetrachloride	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Chlorobenzene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Chlorodibromomethane	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Chloroethane	ND		0.00484		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Chloroform	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Chloromethane	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
2-Chlorotoluene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
4-Chlorotoluene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,2-Dibromoethane (EDB)	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Dibromomethane	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,4-Dichlorobenzene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,3-Dichlorobenzene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,2-Dichlorobenzene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Dichlorodifluoromethane	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,1-Dichloroethane	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,2-Dichloroethane	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
cis-1,2-Dichloroethene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,1-Dichloroethene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
trans-1,2-Dichloroethene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,3-Dichloropropane	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,2-Dichloropropane	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
2,2-Dichloropropane	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
cis-1,3-Dichloropropene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
trans-1,3-Dichloropropene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,1-Dichloropropene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Ethylbenzene	**0.00461**		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Hexachlorobutadiene	ND		0.00484		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
2-Hexanone	ND		0.0484		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Isopropylbenzene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
p-Isopropyltoluene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Methyl tert-Butyl Ether	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Methylene Chloride	ND		0.00969		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
4-Methyl-2-pentanone	ND		0.0484		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Naphthalene	ND		0.00484		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
n-Propylbenzene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Styrene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,1,1,2-Tetrachloroethane	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00

Client Sample ID: F-07A (0-1) Lab Sample ID: NUF1504-09

Date Collected: 06/07/11 12:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 70**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Tetrachloroethene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Toluene	**0.0142**		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,2,3-Trichlorobenzene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,2,4-Trichlorobenzene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,1,2-Trichloroethane	ND		0.00484		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,1,1-Trichloroethane	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Trichloroethene	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Trichlorofluoromethane	**0.00231**		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,2,3-Trichloropropane	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,3,5-Trimethylbenzene	**0.00231**		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
1,2,4-Trimethylbenzene	**0.00453**		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Vinyl chloride	ND		0.00194		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00
Xylenes, total	**0.00586**		0.00484		mg/kg		06/10/11 12:30	06/15/11 21:05	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*109*		*67 - 138*	*06/10/11 12:30*	*06/15/11 21:05*	*1.00*
Dibromofluoromethane	*108*		*75 - 125*	*06/10/11 12:30*	*06/15/11 21:05*	*1.00*
Toluene-d8	*128*		*76 - 129*	*06/10/11 12:30*	*06/15/11 21:05*	*1.00*
4-Bromofluorobenzene	*171*	*ZX*	*67 - 147*	*06/10/11 12:30*	*06/15/11 21:05*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Acenaphthylene	ND		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Anthracene	ND		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Benzo (a) anthracene	**0.105**		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Benzo (a) pyrene	**0.107**		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Benzo (b) fluoranthene	**0.142**		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Benzo (g,h,i) perylene	**0.107**		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Benzo (k) fluoranthene	**0.0953**		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
4-Bromophenyl phenyl ether	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Butyl benzyl phthalate	**0.825**		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Carbazole	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
4-Chloro-3-methylphenol	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
4-Chloroaniline	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Bis(2-chloroethoxy)methane	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Bis(2-chloroethyl)ether	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Bis(2-chloroisopropyl)ether	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
2-Chloronaphthalene	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
2-Chlorophenol	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
4-Chlorophenyl phenyl ether	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Chrysene	**0.139**		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Dibenz (a,h) anthracene	ND		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Dibenzofuran	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Di-n-butyl phthalate	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
1,4-Dichlorobenzene	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
1,2-Dichlorobenzene	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
1,3-Dichlorobenzene	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
3,3-Dichlorobenzidine	ND		0.665		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
2,4-Dichlorophenol	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00

Client Sample ID: F-07A (0-1) Lab Sample ID: NUF1504-09

Date Collected: 06/07/11 12:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 70**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D - RE1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
2,4-Dimethylphenol	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Dimethyl phthalate	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
4,6-Dinitro-2-methylphenol	ND		0.830		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
2,4-Dinitrophenol	ND		0.830		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
2,6-Dinitrotoluene	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
2,4-Dinitrotoluene	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Di-n-octyl phthalate	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Bis(2-ethylhexyl)phthalate	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Fluoranthene	**0.231**		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Fluorene	ND		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Hexachlorobenzene	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Hexachlorobutadiene	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Hexachlorocyclopentadiene	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Hexachloroethane	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Indeno (1,2,3-cd) pyrene	**0.0731**		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Isophorone	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
2-Methylnaphthalene	ND		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
2-Methylphenol	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
3/4-Methylphenol	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Naphthalene	ND		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
3-Nitroaniline	ND		0.830		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
2-Nitroaniline	ND		0.830		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
4-Nitroaniline	ND		0.830		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Nitrobenzene	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
4-Nitrophenol	ND		0.830		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
2-Nitrophenol	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
N-Nitrosodiphenylamine	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
N-Nitrosodi-n-propylamine	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Pentachlorophenol	ND		0.830		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Phenanthrene	**0.108**		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Phenol	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
Pyrene	**0.210**		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
1,2,4-Trichlorobenzene	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
1-Methylnaphthalene	ND		0.0668		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
2,4,6-Trichlorophenol	ND		0.332		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00
2,4,5-Trichlorophenol	ND		0.830		mg/kg		06/15/11 13:05	06/16/11 12:13	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*68*		*18 - 120*	*06/15/11 13:05*	*06/16/11 12:13*	*1.00*
2,4,6-Tribromophenol	*51*		*19 - 120*	*06/15/11 13:05*	*06/16/11 12:13*	*1.00*
Phenol-d5	*61*		*18 - 120*	*06/15/11 13:05*	*06/16/11 12:13*	*1.00*
2-Fluorobiphenyl	*58*		*14 - 120*	*06/15/11 13:05*	*06/16/11 12:13*	*1.00*
2-Fluorophenol	*59*		*17 - 120*	*06/15/11 13:05*	*06/16/11 12:13*	*1.00*
Nitrobenzene-d5	*61*		*17 - 120*	*06/15/11 13:05*	*06/16/11 12:13*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**825**		39.5		mg/kg		06/13/11 09:25	06/14/11 02:03	5.00
TPH - Oil Range	**1570**		39.5		mg/kg		06/13/11 09:25	06/14/11 02:03	5.00

Client Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1504

Client Sample ID: F-07A (0-1)

Date Collected: 06/07/11 12:30
Date Received: 06/09/11 08:55

Lab Sample ID: NUF1504-09

Matrix: Soil
Percent Solids: 70

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl		*Z3*	*53 - 140*	*06/13/11 09:25*	*06/14/11 02:03*	*5.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 23:24	1.00
PCB-1221	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 23:24	1.00
PCB-1232	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 23:24	1.00
PCB-1242	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 23:24	1.00
PCB-1248	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 23:24	1.00
PCB-1254	**0.420**		0.0325		mg/kg		06/11/11 07:20	06/13/11 23:24	1.00
PCB-1260	ND		0.0325		mg/kg		06/11/11 07:20	06/13/11 23:24	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*78*		*19 - 147*	*06/11/11 07:20*	*06/13/11 23:24*	*1.00*
Decachlorobiphenyl	*62*		*20 - 150*	*06/11/11 07:20*	*06/13/11 23:24*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**12.6**		0.990		mg/kg		06/10/11 10:06	06/10/11 20:34	1.00
Barium	**437**		1.98		mg/kg		06/10/11 10:06	06/10/11 20:34	1.00
Cadmium	**31.7**		0.990		mg/kg		06/10/11 10:06	06/10/11 20:34	1.00
Chromium	**62.8**		0.990		mg/kg		06/10/11 10:06	06/10/11 20:34	1.00
Lead	**3350**		0.990		mg/kg		06/10/11 10:06	06/10/11 20:34	1.00
Selenium	**2.28**		1.98		mg/kg		06/10/11 10:06	06/10/11 20:34	1.00
Silver	**2.36**		0.990		mg/kg		06/10/11 10:06	06/10/11 20:34	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.99**		0.20		mg/kg		06/13/11 12:40	06/14/11 15:59	2.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**70.0**		0.500		%		06/10/11 14:26	06/13/11 08:22	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11F1171-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010617 **Prep Batch: 11F1171_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Benzene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Bromobenzene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Bromochloromethane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Bromodichloromethane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Bromoform	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Bromomethane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,2-Dibromo-3-chloropropane	ND		0.00500		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
2-Butanone	ND		0.0500		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
sec-Butylbenzene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
n-Butylbenzene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
tert-Butylbenzene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Carbon disulfide	ND		0.00500		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Carbon Tetrachloride	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Chlorobenzene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Chlorodibromomethane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Chloroethane	ND		0.00500		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Chloroform	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Chloromethane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
2-Chlorotoluene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
4-Chlorotoluene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,2-Dibromoethane (EDB)	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Dibromomethane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,4-Dichlorobenzene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,3-Dichlorobenzene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,2-Dichlorobenzene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Dichlorodifluoromethane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,1-Dichloroethane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,2-Dichloroethane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
cis-1,2-Dichloroethene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,1-Dichloroethene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
trans-1,2-Dichloroethene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,3-Dichloropropane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,2-Dichloropropane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
2,2-Dichloropropane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
cis-1,3-Dichloropropene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
trans-1,3-Dichloropropene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,1-Dichloropropene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Ethylbenzene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Hexachlorobutadiene	ND		0.00500		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
2-Hexanone	ND		0.0500		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Isopropylbenzene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
p-Isopropyltoluene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Methyl tert-Butyl Ether	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Methylene Chloride	ND		0.0100		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
4-Methyl-2-pentanone	ND		0.0500		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Naphthalene	ND		0.00500		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
n-Propylbenzene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Styrene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F1171-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010617 **Prep Batch: 11F1171_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Tetrachloroethene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Toluene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,2,3-Trichlorobenzene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,2,4-Trichlorobenzene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,1,2-Trichloroethane	ND		0.00500		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,1,1-Trichloroethane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Trichloroethene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Trichlorofluoromethane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,2,3-Trichloropropane	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,3,5-Trimethylbenzene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
1,2,4-Trimethylbenzene	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Vinyl chloride	ND		0.00200		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00
Xylenes, total	ND		0.00500		mg/kg		06/15/11 23:52	06/16/11 02:10	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*93*		*67 - 138*	*06/15/11 23:52*	*06/16/11 02:10*	*1.00*
Dibromofluoromethane	*94*		*75 - 125*	*06/15/11 23:52*	*06/16/11 02:10*	*1.00*
Toluene-d8	*104*		*76 - 129*	*06/15/11 23:52*	*06/16/11 02:10*	*1.00*
4-Bromofluorobenzene	*102*		*67 - 147*	*06/15/11 23:52*	*06/16/11 02:10*	*1.00*

Lab Sample ID: 11F1171-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010617 **Prep Batch: 11F1171_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.50		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Benzene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Bromobenzene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Bromochloromethane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Bromodichloromethane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Bromoform	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Bromomethane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,2-Dibromo-3-chloropropane	ND		0.250		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
2-Butanone	ND		2.50		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
sec-Butylbenzene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
n-Butylbenzene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
tert-Butylbenzene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Carbon disulfide	ND		0.250		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Carbon Tetrachloride	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Chlorobenzene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Chlorodibromomethane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Chloroethane	ND		0.250		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Chloroform	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Chloromethane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
2-Chlorotoluene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
4-Chlorotoluene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,2-Dibromoethane (EDB)	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F1171-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010617 **Prep Batch: 11F1171_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,4-Dichlorobenzene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,3-Dichlorobenzene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,2-Dichlorobenzene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Dichlorodifluoromethane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,1-Dichloroethane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,2-Dichloroethane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
cis-1,2-Dichloroethene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,1-Dichloroethene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
trans-1,2-Dichloroethene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,3-Dichloropropane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,2-Dichloropropane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
2,2-Dichloropropane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
cis-1,3-Dichloropropene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
trans-1,3-Dichloropropene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,1-Dichloropropene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Ethylbenzene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Hexachlorobutadiene	ND		0.250		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
2-Hexanone	ND		2.50		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Isopropylbenzene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
p-Isopropyltoluene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Methyl tert-Butyl Ether	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Methylene Chloride	ND		0.500		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
4-Methyl-2-pentanone	ND		2.50		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Naphthalene	ND		0.250		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
n-Propylbenzene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Styrene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,1,1,2-Tetrachloroethane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,1,2,2-Tetrachloroethane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Tetrachloroethene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Toluene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,2,3-Trichlorobenzene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,2,4-Trichlorobenzene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,1,2-Trichloroethane	ND		0.250		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,1,1-Trichloroethane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Trichloroethene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Trichlorofluoromethane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,2,3-Trichloropropane	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,3,5-Trimethylbenzene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
1,2,4-Trimethylbenzene	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Vinyl chloride	ND		0.100		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0
Xylenes, total	ND		0.250		mg/kg		06/15/11 23:52	06/16/11 02:38	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*97*		*67 - 138*	*06/15/11 23:52*	*06/16/11 02:38*	*50.0*
Dibromofluoromethane	*100*		*75 - 125*	*06/15/11 23:52*	*06/16/11 02:38*	*50.0*
Toluene-d8	*103*		*76 - 129*	*06/15/11 23:52*	*06/16/11 02:38*	*50.0*
4-Bromofluorobenzene	*100*		*67 - 147*	*06/15/11 23:52*	*06/16/11 02:38*	*50.0*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F1171-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010617 **Prep Batch: 11F1171_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	256		ug/kg		102	60 - 150
Benzene	50.0	55.2		ug/kg		110	78 - 126
Bromobenzene	50.0	53.0		ug/kg		106	79 - 126
Bromochloromethane	50.0	56.3		ug/kg		113	78 - 126
Bromodichloromethane	50.0	53.9		ug/kg		108	75 - 129
Bromoform	50.0	56.1		ug/kg		112	74 - 133
Bromomethane	50.0	51.9		ug/kg		104	50 - 150
1,2-Dibromo-3-chloropropane	50.0	56.4		ug/kg		113	62 - 150
2-Butanone	250	270		ug/kg		108	68 - 149
sec-Butylbenzene	50.0	51.7		ug/kg		103	76 - 135
n-Butylbenzene	50.0	49.5		ug/kg		99	73 - 143
tert-Butylbenzene	50.0	52.8		ug/kg		106	80 - 129
Carbon disulfide	50.0	53.6		ug/kg		107	80 - 132
Carbon Tetrachloride	50.0	55.0		ug/kg		110	70 - 138
Chlorobenzene	50.0	52.8		ug/kg		106	80 - 123
Chlorodibromomethane	50.0	56.0		ug/kg		112	80 - 127
Chloroethane	50.0	60.6		ug/kg		121	55 - 150
Chloroform	50.0	53.6		ug/kg		107	70 - 127
Chloromethane	50.0	45.5		ug/kg		91	36 - 137
2-Chlorotoluene	50.0	50.9		ug/kg		102	80 - 130
4-Chlorotoluene	50.0	50.5		ug/kg		101	77 - 132
1,2-Dibromoethane (EDB)	50.0	55.6		ug/kg		111	80 - 131
Dibromomethane	50.0	54.2		ug/kg		108	78 - 128
1,4-Dichlorobenzene	50.0	49.4		ug/kg		99	80 - 129
1,3-Dichlorobenzene	50.0	49.6		ug/kg		99	80 - 131
1,2-Dichlorobenzene	50.0	51.7		ug/kg		103	80 - 127
Dichlorodifluoromethane	50.0	40.5		ug/kg		81	30 - 150
1,1-Dichloroethane	50.0	56.7		ug/kg		113	71 - 126
1,2-Dichloroethane	50.0	54.4		ug/kg		109	70 - 139
cis-1,2-Dichloroethene	50.0	55.6		ug/kg		111	75 - 126
1,1-Dichloroethene	50.0	57.1		ug/kg		114	70 - 125
trans-1,2-Dichloroethene	50.0	54.8		ug/kg		110	73 - 128
1,3-Dichloropropane	50.0	59.1		ug/kg		118	79 - 128
1,2-Dichloropropane	50.0	52.7		ug/kg		105	75 - 120
2,2-Dichloropropane	50.0	55.6		ug/kg		111	60 - 139
cis-1,3-Dichloropropene	50.0	59.4		ug/kg		119	74 - 136
trans-1,3-Dichloropropene	50.0	57.8		ug/kg		116	73 - 128
1,1-Dichloropropene	50.0	55.1		ug/kg		110	78 - 125
Ethylbenzene	50.0	53.2		ug/kg		106	79 - 130
Hexachlorobutadiene	50.0	48.2		ug/kg		96	75 - 150
2-Hexanone	250	274		ug/kg		110	65 - 150
Isopropylbenzene	50.0	57.3		ug/kg		115	65 - 121
p-Isopropyltoluene	50.0	49.7		ug/kg		99	76 - 133
Methyl tert-Butyl Ether	50.0	57.2		ug/kg		114	70 - 128
Methylene Chloride	50.0	58.8		ug/kg		118	69 - 140
4-Methyl-2-pentanone	250	278		ug/kg		111	67 - 147
Naphthalene	50.0	53.1		ug/kg		106	72 - 150
n-Propylbenzene	50.0	50.7		ug/kg		101	76 - 133
Styrene	50.0	53.0		ug/kg		106	80 - 140

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F1171-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010617 **Prep Batch: 11F1171_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	56.9		ug/kg		114	80 - 132
1,1,2,2-Tetrachloroethane	50.0	55.4		ug/kg		111	75 - 135
Tetrachloroethene	50.0	55.2		ug/kg		110	76 - 130
Toluene	50.0	55.3		ug/kg		111	76 - 126
1,2,3-Trichlorobenzene	50.0	49.9		ug/kg		100	75 - 150
1,2,4-Trichlorobenzene	50.0	47.4		ug/kg		95	64 - 150
1,1,2-Trichloroethane	50.0	58.9		ug/kg		118	73 - 133
1,1,1-Trichloroethane	50.0	55.7		ug/kg		111	70 - 132
Trichloroethene	50.0	52.8		ug/kg		106	79 - 129
Trichlorofluoromethane	50.0	49.5		ug/kg		99	52 - 148
1,2,3-Trichloropropane	50.0	53.0		ug/kg		106	70 - 125
1,3,5-Trimethylbenzene	50.0	52.1		ug/kg		104	80 - 134
1,2,4-Trimethylbenzene	50.0	50.2		ug/kg		100	80 - 132
Vinyl chloride	50.0	49.2		ug/kg		98	53 - 142
Xylenes, total	150	158		ug/kg		105	80 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*101*		*67 - 138*
Dibromofluoromethane	*100*		*75 - 125*
Toluene-d8	*104*		*76 - 129*
4-Bromofluorobenzene	*99*		*67 - 147*

Lab Sample ID: 11F1171-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010617 **Prep Batch: 11F1171_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	0.119		0.240	0.392		mg/kg		113	29 - 181
Benzene	0.00107		0.0481	0.0590		mg/kg		120	42 - 141
Bromobenzene	ND		0.0481	0.0579		mg/kg		120	19 - 154
Bromochloromethane	ND		0.0481	0.0559		mg/kg		116	41 - 146
Bromodichloromethane	0.00170		0.0481	0.0563		mg/kg		114	32 - 155
Bromoform	ND		0.0481	0.0541		mg/kg		113	10 - 155
Bromomethane	ND		0.0481	0.0589		mg/kg		122	10 - 199
1,2-Dibromo-3-chloropropane	ND		0.0481	0.0567		mg/kg		118	10 - 167
2-Butanone	0.0166		0.240	0.301		mg/kg		118	38 - 161
sec-Butylbenzene	ND		0.0481	0.0626		mg/kg		130	10 - 170
n-Butylbenzene	ND		0.0481	0.0568		mg/kg		118	10 - 183
tert-Butylbenzene	ND		0.0481	0.0633		mg/kg		132	11 - 165
Carbon disulfide	ND		0.0481	0.0576		mg/kg		120	50 - 136
Carbon Tetrachloride	ND		0.0481	0.0592		mg/kg		123	30 - 159
Chlorobenzene	ND		0.0481	0.0545		mg/kg		113	25 - 151
Chlorodibromomethane	ND		0.0481	0.0563		mg/kg		117	27 - 150
Chloroethane	ND		0.0481	0.0627		mg/kg		130	15 - 197
Chloroform	ND		0.0481	0.0555		mg/kg		115	33 - 148
Chloromethane	ND		0.0481	0.0479		mg/kg		100	10 - 166
2-Chlorotoluene	ND		0.0481	0.0583		mg/kg		121	25 - 166
4-Chlorotoluene	ND		0.0481	0.0578		mg/kg		120	19 - 163
1,2-Dibromoethane (EDB)	ND		0.0481	0.0558		mg/kg		116	30 - 155

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F1171-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010617 **Prep Batch: 11F1171_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Dibromomethane	ND		0.0481	0.0544		mg/kg		113	30 - 149
1,4-Dichlorobenzene	ND		0.0481	0.0514		mg/kg		107	10 - 170
1,3-Dichlorobenzene	ND		0.0481	0.0508		mg/kg		106	10 - 173
1,2-Dichlorobenzene	ND		0.0481	0.0483		mg/kg		100	10 - 168
Dichlorodifluoromethane	ND		0.0481	0.0455		mg/kg		95	10 - 188
1,1-Dichloroethane	ND		0.0481	0.0582		mg/kg		121	51 - 135
1,2-Dichloroethane	0.00215		0.0481	0.0558		mg/kg		112	32 - 155
cis-1,2-Dichloroethene	ND		0.0481	0.0581		mg/kg		121	32 - 150
1,1-Dichloroethene	ND		0.0481	0.0600		mg/kg		125	46 - 141
trans-1,2-Dichloroethene	ND		0.0481	0.0577		mg/kg		120	41 - 146
1,3-Dichloropropane	ND		0.0481	0.0591		mg/kg		123	35 - 148
1,2-Dichloropropane	0.000868		0.0481	0.0557		mg/kg		114	34 - 139
2,2-Dichloropropane	ND		0.0481	0.0591		mg/kg		123	29 - 152
cis-1,3-Dichloropropene	ND		0.0481	0.0600		mg/kg		125	23 - 152
trans-1,3-Dichloropropene	ND		0.0481	0.0556		mg/kg		116	24 - 151
1,1-Dichloropropene	ND		0.0481	0.0609		mg/kg		127	40 - 151
Ethylbenzene	ND		0.0481	0.0585		mg/kg		122	21 - 165
Hexachlorobutadiene	ND		0.0481	0.0409		mg/kg		85	10 - 173
2-Hexanone	ND		0.240	0.268		mg/kg		111	13 - 174
Isopropylbenzene	ND		0.0481	0.0623		mg/kg		130	20 - 139
p-Isopropyltoluene	ND		0.0481	0.0612		mg/kg		127	10 - 164
Methyl tert-Butyl Ether	ND		0.0481	0.0583		mg/kg		121	34 - 154
Methylene Chloride	0.00381		0.0481	0.0634		mg/kg		124	36 - 163
4-Methyl-2-pentanone	ND		0.240	0.297		mg/kg		123	19 - 176
Naphthalene	ND		0.0481	0.0199		mg/kg		41	10 - 160
n-Propylbenzene	ND		0.0481	0.0635		mg/kg		132	16 - 174
Styrene	ND		0.0481	0.0361		mg/kg		75	10 - 177
1,1,1,2-Tetrachloroethane	ND		0.0481	0.0574		mg/kg		119	31 - 150
1,1,2,2-Tetrachloroethane	ND		0.0481	0.0644		mg/kg		134	27 - 163
Tetrachloroethene	ND		0.0481	0.0638		mg/kg		133	33 - 155
Toluene	0.00104		0.0481	0.0607		mg/kg		124	45 - 145
1,2,3-Trichlorobenzene	ND		0.0481	0.0250		mg/kg		52	10 - 182
1,2,4-Trichlorobenzene	ND		0.0481	0.0297		mg/kg		62	10 - 175
1,1,2-Trichloroethane	0.0118		0.0481	0.0739		mg/kg		129	43 - 145
1,1,1-Trichloroethane	ND		0.0481	0.0592		mg/kg		123	39 - 148
Trichloroethene	ND		0.0481	0.0562		mg/kg		117	39 - 150
Trichlorofluoromethane	ND		0.0481	0.0545		mg/kg		113	25 - 174
1,2,3-Trichloropropane	ND		0.0481	0.0605		mg/kg		126	10 - 152
1,3,5-Trimethylbenzene	ND		0.0481	0.0607		mg/kg		126	38 - 148
1,2,4-Trimethylbenzene	0.00172		0.0481	0.0593		mg/kg		120	22 - 164
Vinyl chloride	ND		0.0481	0.0517		mg/kg		108	32 - 163
Xylenes, total	ND		0.144	0.168		mg/kg		116	31 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*101*		*67 - 138*
Dibromofluoromethane	*102*		*75 - 125*
Toluene-d8	*109*		*76 - 129*
4-Bromofluorobenzene	*109*		*67 - 147*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F1171-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010617 **Prep Batch: 11F1171_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	0.119		0.233	0.351		mg/kg		99	29 - 181	11	50
Benzene	0.00107		0.0466	0.0519		mg/kg		109	42 - 141	13	50
Bromobenzene	ND		0.0466	0.0523		mg/kg		112	19 - 154	10	50
Bromochloromethane	ND		0.0466	0.0489		mg/kg		105	41 - 146	13	50
Bromodichloromethane	0.00170		0.0466	0.0490		mg/kg		101	32 - 155	14	50
Bromoform	ND		0.0466	0.0497		mg/kg		107	10 - 155	9	43
Bromomethane	ND		0.0466	0.0516		mg/kg		111	10 - 199	13	46
1,2-Dibromo-3-chloropropane	ND		0.0466	0.0502		mg/kg		108	10 - 167	12	45
2-Butanone	0.0166		0.233	0.272		mg/kg		110	38 - 161	10	50
sec-Butylbenzene	ND		0.0466	0.0546		mg/kg		117	10 - 170	14	50
n-Butylbenzene	ND		0.0466	0.0510		mg/kg		109	10 - 183	11	50
tert-Butylbenzene	ND		0.0466	0.0557		mg/kg		119	11 - 165	13	50
Carbon disulfide	ND		0.0466	0.0510		mg/kg		109	50 - 136	12	48
Carbon Tetrachloride	ND		0.0466	0.0517		mg/kg		111	30 - 159	14	44
Chlorobenzene	ND		0.0466	0.0492		mg/kg		105	25 - 151	10	50
Chlorodibromomethane	ND		0.0466	0.0520		mg/kg		111	27 - 150	8	48
Chloroethane	ND		0.0466	0.0562		mg/kg		120	15 - 197	11	50
Chloroform	ND		0.0466	0.0488		mg/kg		105	33 - 148	13	50
Chloromethane	ND		0.0466	0.0428		mg/kg		92	10 - 166	11	44
2-Chlorotoluene	ND		0.0466	0.0518		mg/kg		111	25 - 166	12	50
4-Chlorotoluene	ND		0.0466	0.0510		mg/kg		109	19 - 163	13	50
1,2-Dibromoethane (EDB)	ND		0.0466	0.0515		mg/kg		110	30 - 155	8	45
Dibromomethane	ND		0.0466	0.0493		mg/kg		106	30 - 149	10	50
1,4-Dichlorobenzene	ND		0.0466	0.0468		mg/kg		100	10 - 170	9	50
1,3-Dichlorobenzene	ND		0.0466	0.0457		mg/kg		98	10 - 173	11	50
1,2-Dichlorobenzene	ND		0.0466	0.0444		mg/kg		95	10 - 168	8	50
Dichlorodifluoromethane	ND		0.0466	0.0376		mg/kg		81	10 - 188	19	50
1,1-Dichloroethane	ND		0.0466	0.0513		mg/kg		110	51 - 135	13	50
1,2-Dichloroethane	0.00215		0.0466	0.0485		mg/kg		99	32 - 155	14	50
cis-1,2-Dichloroethene	ND		0.0466	0.0508		mg/kg		109	32 - 150	13	50
1,1-Dichloroethene	ND		0.0466	0.0525		mg/kg		113	46 - 141	13	50
trans-1,2-Dichloroethene	ND		0.0466	0.0501		mg/kg		107	41 - 146	14	40
1,3-Dichloropropane	ND		0.0466	0.0528		mg/kg		113	35 - 148	11	42
1,2-Dichloropropane	0.000868		0.0466	0.0494		mg/kg		104	34 - 139	12	50
2,2-Dichloropropane	ND		0.0466	0.0511		mg/kg		110	29 - 152	14	39
cis-1,3-Dichloropropene	ND		0.0466	0.0542		mg/kg		116	23 - 152	10	50
trans-1,3-Dichloropropene	ND		0.0466	0.0513		mg/kg		110	24 - 151	8	48
1,1-Dichloropropene	ND		0.0466	0.0527		mg/kg		113	40 - 151	14	50
Ethylbenzene	ND		0.0466	0.0529		mg/kg		114	21 - 165	10	50
Hexachlorobutadiene	ND		0.0466	0.0363		mg/kg		78	10 - 173	12	50
2-Hexanone	ND		0.233	0.254		mg/kg		109	13 - 174	5	50
Isopropylbenzene	ND		0.0466	0.0556		mg/kg		119	20 - 139	11	50
p-Isopropyltoluene	ND		0.0466	0.0547		mg/kg		117	10 - 164	11	50
Methyl tert-Butyl Ether	ND		0.0466	0.0515		mg/kg		110	34 - 154	12	50
Methylene Chloride	0.00381		0.0466	0.0571		mg/kg		114	36 - 163	10	50
4-Methyl-2-pentanone	ND		0.233	0.277		mg/kg		119	19 - 176	7	45
Naphthalene	ND		0.0466	0.0206		mg/kg		44	10 - 160	3	50
n-Propylbenzene	ND		0.0466	0.0566		mg/kg		121	16 - 174	12	50
Styrene	ND		0.0466	0.0340		mg/kg		73	10 - 177	6	50

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F1171-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010617 **Prep Batch: 11F1171_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		0.0466	0.0514		mg/kg		110	31 - 150	11	50
1,1,2,2-Tetrachloroethane	ND		0.0466	0.0602		mg/kg		129	27 - 163	7	45
Tetrachloroethene	ND		0.0466	0.0538		mg/kg		115	33 - 155	17	50
Toluene	0.00104		0.0466	0.0560		mg/kg		118	45 - 145	8	50
1,2,3-Trichlorobenzene	ND		0.0466	0.0251		mg/kg		54	10 - 182	0.5	50
1,2,4-Trichlorobenzene	ND		0.0466	0.0290		mg/kg		62	10 - 175	2	50
1,1,2-Trichloroethane	0.0118		0.0466	0.0688		mg/kg		122	43 - 145	7	50
1,1,1-Trichloroethane	ND		0.0466	0.0519		mg/kg		111	39 - 148	13	41
Trichloroethene	ND		0.0466	0.0489		mg/kg		105	39 - 150	14	50
Trichlorofluoromethane	ND		0.0466	0.0479		mg/kg		103	25 - 174	13	47
1,2,3-Trichloropropane	ND		0.0466	0.0559		mg/kg		120	10 - 152	8	47
1,3,5-Trimethylbenzene	ND		0.0466	0.0540		mg/kg		116	38 - 148	12	50
1,2,4-Trimethylbenzene	0.00172		0.0466	0.0538		mg/kg		112	22 - 164	10	50
Vinyl chloride	ND		0.0466	0.0450		mg/kg		97	32 - 163	14	39
Xylenes, total	ND		0.140	0.153		mg/kg		109	31 - 159	9	50

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*95*		*67 - 138*
Dibromofluoromethane	*98*		*75 - 125*
Toluene-d8	*110*		*76 - 129*
4-Bromofluorobenzene	*108*		*67 - 147*

Lab Sample ID: 11F2574-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010583 **Prep Batch: 11F2574_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Benzene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Bromobenzene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Bromochloromethane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Bromodichloromethane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Bromoform	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Bromomethane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,2-Dibromo-3-chloropropane	ND		0.00500		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
2-Butanone	ND		0.0500		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
sec-Butylbenzene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
n-Butylbenzene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
tert-Butylbenzene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Carbon disulfide	ND		0.00500		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Carbon Tetrachloride	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Chlorobenzene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Chlorodibromomethane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Chloroethane	ND		0.00500		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Chloroform	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Chloromethane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
2-Chlorotoluene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
4-Chlorotoluene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,2-Dibromoethane (EDB)	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2574-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010583 **Prep Batch: 11F2574_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,4-Dichlorobenzene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,3-Dichlorobenzene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,2-Dichlorobenzene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Dichlorodifluoromethane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,1-Dichloroethane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,2-Dichloroethane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
cis-1,2-Dichloroethene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,1-Dichloroethene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
trans-1,2-Dichloroethene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,3-Dichloropropane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,2-Dichloropropane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
2,2-Dichloropropane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
cis-1,3-Dichloropropene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
trans-1,3-Dichloropropene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,1-Dichloropropene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Ethylbenzene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Hexachlorobutadiene	ND		0.00500		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
2-Hexanone	ND		0.0500		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Isopropylbenzene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
p-Isopropyltoluene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Methyl tert-Butyl Ether	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Methylene Chloride	ND		0.0100		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
4-Methyl-2-pentanone	ND		0.0500		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Naphthalene	ND		0.00500		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
n-Propylbenzene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Styrene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Tetrachloroethene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Toluene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,2,3-Trichlorobenzene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,2,4-Trichlorobenzene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,1,2-Trichloroethane	ND		0.00500		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,1,1-Trichloroethane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Trichloroethene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Trichlorofluoromethane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,2,3-Trichloropropane	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,3,5-Trimethylbenzene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
1,2,4-Trimethylbenzene	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Vinyl chloride	ND		0.00200		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00
Xylenes, total	ND		0.00500		mg/kg		06/15/11 11:25	06/15/11 17:24	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*95*		*67 - 138*	*06/15/11 11:25*	*06/15/11 17:24*	*1.00*
Dibromofluoromethane	*101*		*75 - 125*	*06/15/11 11:25*	*06/15/11 17:24*	*1.00*
Toluene-d8	*102*		*76 - 129*	*06/15/11 11:25*	*06/15/11 17:24*	*1.00*
4-Bromofluorobenzene	*100*		*67 - 147*	*06/15/11 11:25*	*06/15/11 17:24*	*1.00*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2574-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010583 **Prep Batch: 11F2574_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.50		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Benzene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Bromobenzene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Bromochloromethane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Bromodichloromethane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Bromoform	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Bromomethane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,2-Dibromo-3-chloropropane	ND		0.250		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
2-Butanone	ND		2.50		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
sec-Butylbenzene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
n-Butylbenzene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
tert-Butylbenzene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Carbon disulfide	ND		0.250		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Carbon Tetrachloride	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Chlorobenzene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Chlorodibromomethane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Chloroethane	ND		0.250		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Chloroform	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Chloromethane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
2-Chlorotoluene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
4-Chlorotoluene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,2-Dibromoethane (EDB)	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Dibromomethane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,4-Dichlorobenzene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,3-Dichlorobenzene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,2-Dichlorobenzene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Dichlorodifluoromethane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,1-Dichloroethane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,2-Dichloroethane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
cis-1,2-Dichloroethene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,1-Dichloroethene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
trans-1,2-Dichloroethene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,3-Dichloropropane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,2-Dichloropropane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
2,2-Dichloropropane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
cis-1,3-Dichloropropene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
trans-1,3-Dichloropropene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,1-Dichloropropene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Ethylbenzene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Hexachlorobutadiene	ND		0.250		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
2-Hexanone	ND		2.50		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Isopropylbenzene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
p-Isopropyltoluene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Methyl tert-Butyl Ether	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Methylene Chloride	ND		0.500		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
4-Methyl-2-pentanone	ND		2.50		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Naphthalene	ND		0.250		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
n-Propylbenzene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Styrene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2574-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010583 **Prep Batch: 11F2574_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,1,2,2-Tetrachloroethane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Tetrachloroethene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Toluene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,2,3-Trichlorobenzene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,2,4-Trichlorobenzene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,1,2-Trichloroethane	ND		0.250		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,1,1-Trichloroethane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Trichloroethene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Trichlorofluoromethane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,2,3-Trichloropropane	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,3,5-Trimethylbenzene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
1,2,4-Trimethylbenzene	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Vinyl chloride	ND		0.100		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0
Xylenes, total	ND		0.250		mg/kg		06/15/11 11:25	06/15/11 17:52	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*93*		*67 - 138*	*06/15/11 11:25*	*06/15/11 17:52*	*50.0*
Dibromofluoromethane	*95*		*75 - 125*	*06/15/11 11:25*	*06/15/11 17:52*	*50.0*
Toluene-d8	*102*		*76 - 129*	*06/15/11 11:25*	*06/15/11 17:52*	*50.0*
4-Bromofluorobenzene	*101*		*67 - 147*	*06/15/11 11:25*	*06/15/11 17:52*	*50.0*

Lab Sample ID: 11F2574-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010583 **Prep Batch: 11F2574_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	236		ug/kg		94	60 - 150
Benzene	50.0	49.3		ug/kg		99	78 - 126
Bromobenzene	50.0	50.4		ug/kg		101	79 - 126
Bromochloromethane	50.0	50.8		ug/kg		102	78 - 126
Bromodichloromethane	50.0	50.0		ug/kg		100	75 - 129
Bromoform	50.0	53.4		ug/kg		107	74 - 133
Bromomethane	50.0	49.2		ug/kg		98	50 - 150
1,2-Dibromo-3-chloropropane	50.0	53.8		ug/kg		108	62 - 150
2-Butanone	250	248		ug/kg		99	68 - 149
sec-Butylbenzene	50.0	49.3		ug/kg		99	76 - 135
n-Butylbenzene	50.0	47.2		ug/kg		94	73 - 143
tert-Butylbenzene	50.0	50.3		ug/kg		101	80 - 129
Carbon disulfide	50.0	49.4		ug/kg		99	80 - 132
Carbon Tetrachloride	50.0	50.0		ug/kg		100	70 - 138
Chlorobenzene	50.0	50.7		ug/kg		101	80 - 123
Chlorodibromomethane	50.0	53.4		ug/kg		107	80 - 127
Chloroethane	50.0	55.6		ug/kg		111	55 - 150
Chloroform	50.0	48.0		ug/kg		96	70 - 127
Chloromethane	50.0	48.6		ug/kg		97	36 - 137
2-Chlorotoluene	50.0	49.5		ug/kg		99	80 - 130
4-Chlorotoluene	50.0	48.7		ug/kg		97	77 - 132
1,2-Dibromoethane (EDB)	50.0	51.1		ug/kg		102	80 - 131

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2574-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010583 **Prep Batch: 11F2574_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Dibromomethane	50.0	49.0		ug/kg		98	78 - 128
1,4-Dichlorobenzene	50.0	47.2		ug/kg		94	80 - 129
1,3-Dichlorobenzene	50.0	47.7		ug/kg		95	80 - 131
1,2-Dichlorobenzene	50.0	49.8		ug/kg		100	80 - 127
Dichlorodifluoromethane	50.0	48.7		ug/kg		97	30 - 150
1,1-Dichloroethane	50.0	50.4		ug/kg		101	71 - 126
1,2-Dichloroethane	50.0	49.5		ug/kg		99	70 - 139
cis-1,2-Dichloroethene	50.0	49.6		ug/kg		99	75 - 126
1,1-Dichloroethene	50.0	49.9		ug/kg		100	70 - 125
trans-1,2-Dichloroethene	50.0	49.4		ug/kg		99	73 - 128
1,3-Dichloropropane	50.0	54.0		ug/kg		108	79 - 128
1,2-Dichloropropane	50.0	49.6		ug/kg		99	75 - 120
2,2-Dichloropropane	50.0	50.1		ug/kg		100	60 - 139
cis-1,3-Dichloropropene	50.0	51.6		ug/kg		103	74 - 136
trans-1,3-Dichloropropene	50.0	51.4		ug/kg		103	73 - 128
1,1-Dichloropropene	50.0	49.5		ug/kg		99	78 - 125
Ethylbenzene	50.0	50.4		ug/kg		101	79 - 130
Hexachlorobutadiene	50.0	47.9		ug/kg		96	75 - 150
2-Hexanone	250	263		ug/kg		105	65 - 150
Isopropylbenzene	50.0	50.5		ug/kg		101	65 - 121
p-Isopropyltoluene	50.0	48.6		ug/kg		97	76 - 133
Methyl tert-Butyl Ether	50.0	49.7		ug/kg		99	70 - 128
Methylene Chloride	50.0	50.2		ug/kg		100	69 - 140
4-Methyl-2-pentanone	250	259		ug/kg		104	67 - 147
Naphthalene	50.0	49.8		ug/kg		100	72 - 150
n-Propylbenzene	50.0	48.7		ug/kg		97	76 - 133
Styrene	50.0	50.2		ug/kg		100	80 - 140
1,1,1,2-Tetrachloroethane	50.0	52.5		ug/kg		105	80 - 132
1,1,2,2-Tetrachloroethane	50.0	52.7		ug/kg		105	75 - 135
Tetrachloroethene	50.0	52.3		ug/kg		105	76 - 130
Toluene	50.0	50.0		ug/kg		100	76 - 126
1,2,3-Trichlorobenzene	50.0	47.1		ug/kg		94	75 - 150
1,2,4-Trichlorobenzene	50.0	44.4		ug/kg		89	64 - 150
1,1,2-Trichloroethane	50.0	54.1		ug/kg		108	73 - 133
1,1,1-Trichloroethane	50.0	50.0		ug/kg		100	70 - 132
Trichloroethene	50.0	48.7		ug/kg		97	79 - 129
Trichlorofluoromethane	50.0	49.9		ug/kg		100	52 - 148
1,2,3-Trichloropropane	50.0	51.4		ug/kg		103	70 - 125
1,3,5-Trimethylbenzene	50.0	49.8		ug/kg		100	80 - 134
1,2,4-Trimethylbenzene	50.0	49.1		ug/kg		98	80 - 132
Vinyl chloride	50.0	50.4		ug/kg		101	53 - 142
Xylenes, total	150	151		ug/kg		100	80 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*96*		*67 - 138*
Dibromofluoromethane	*97*		*75 - 125*
Toluene-d8	*101*		*76 - 129*
4-Bromofluorobenzene	*100*		*67 - 147*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2574-MS1 **Client Sample ID: F-08 (2-3)**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010583 **Prep Batch: 11F2574_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	6.33		10.9	15.7		mg/kg		86	29 - 181
Benzene	0.0838	RL1	2.18	2.48		mg/kg		110	42 - 141
Bromobenzene	ND	RL1	2.18	2.47		mg/kg		113	19 - 154
Bromochloromethane	ND	RL1	2.18	2.16		mg/kg		99	41 - 146
Bromodichloromethane	ND	RL1	2.18	2.22		mg/kg		102	32 - 155
Bromoform	ND	RL1	2.18	2.20		mg/kg		101	10 - 155
Bromomethane	ND	RL1	2.18	1.87		mg/kg		86	10 - 199
1,2-Dibromo-3-chloropropane	ND	RL1	2.18	2.07		mg/kg		95	10 - 167
2-Butanone	1.80	RL1	10.9	11.9		mg/kg		93	38 - 161
sec-Butylbenzene	ND	RL1	2.18	2.71		mg/kg		124	10 - 170
n-Butylbenzene	ND	RL1	2.18	2.77		mg/kg		127	10 - 183
tert-Butylbenzene	ND	RL1	2.18	2.65		mg/kg		122	11 - 165
Carbon disulfide	0.0484	RL1	2.18	2.11		mg/kg		94	50 - 136
Carbon Tetrachloride	ND	RL1	2.18	2.43		mg/kg		112	30 - 159
Chlorobenzene	ND	RL1	2.18	2.54		mg/kg		116	25 - 151
Chlorodibromomethane	ND	RL1	2.18	2.28		mg/kg		105	27 - 150
Chloroethane	ND	RL1	2.18	2.28		mg/kg		104	15 - 197
Chloroform	ND	RL1	2.18	2.30		mg/kg		105	33 - 148
Chloromethane	ND	RL1	2.18	1.99		mg/kg		91	10 - 166
2-Chlorotoluene	ND	RL1	2.18	2.72		mg/kg		125	25 - 166
4-Chlorotoluene	ND	RL1	2.18	2.82		mg/kg		129	19 - 163
1,2-Dibromoethane (EDB)	ND	RL1	2.18	2.24		mg/kg		103	30 - 155
Dibromomethane	ND	RL1	2.18	2.14		mg/kg		98	30 - 149
1,4-Dichlorobenzene	ND	RL1	2.18	2.69		mg/kg		123	10 - 170
1,3-Dichlorobenzene	ND	RL1	2.18	2.66		mg/kg		122	10 - 173
1,2-Dichlorobenzene	ND	RL1	2.18	2.57		mg/kg		118	10 - 168
Dichlorodifluoromethane	ND	RL1	2.18	0.959		mg/kg		44	10 - 188
1,1-Dichloroethane	ND	RL1	2.18	2.41		mg/kg		111	51 - 135
1,2-Dichloroethane	ND	RL1	2.18	2.20		mg/kg		101	32 - 155
cis-1,2-Dichloroethene	ND	RL1	2.18	2.41		mg/kg		111	32 - 150
1,1-Dichloroethene	ND	RL1	2.18	1.84		mg/kg		84	46 - 141
trans-1,2-Dichloroethene	ND	RL1	2.18	2.39		mg/kg		109	41 - 146
1,3-Dichloropropane	ND	RL1	2.18	2.30		mg/kg		106	35 - 148
1,2-Dichloropropane	ND	RL1	2.18	2.23		mg/kg		102	34 - 139
2,2-Dichloropropane	ND	RL1	2.18	2.46		mg/kg		113	29 - 152
cis-1,3-Dichloropropene	ND	RL1	2.18	2.62		mg/kg		120	23 - 152
trans-1,3-Dichloropropene	ND	RL1	2.18	2.41		mg/kg		110	24 - 151
1,1-Dichloropropene	ND	RL1	2.18	2.58		mg/kg		118	40 - 151
Ethylbenzene	0.603		2.18	3.18		mg/kg		118	21 - 165
Hexachlorobutadiene	ND	RL1	2.18	2.07		mg/kg		95	10 - 173
2-Hexanone	ND	RL1	10.9	9.90		mg/kg		91	13 - 174
Isopropylbenzene	0.380		2.18	3.21		mg/kg		130	20 - 139
p-Isopropyltoluene	0.168		2.18	2.79		mg/kg		120	10 - 164
Methyl tert-Butyl Ether	ND	RL1	2.18	2.12		mg/kg		97	34 - 154
Methylene Chloride	ND	RL1	2.18	2.25		mg/kg		103	36 - 163
4-Methyl-2-pentanone	1.07	RL1	10.9	11.5		mg/kg		96	19 - 176
Naphthalene	0.453		2.18	2.75		mg/kg		105	10 - 160
n-Propylbenzene	0.193		2.18	2.94		mg/kg		126	16 - 174
Styrene	1.01		2.18	3.53		mg/kg		115	10 - 177

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2574-MS1 **Client Sample ID: F-08 (2-3)**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010583 **Prep Batch: 11F2574_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	ND	RL1	2.18	2.42		mg/kg		111	31 - 150
1,1,2,2-Tetrachloroethane	ND	RL1	2.18	2.24		mg/kg		103	27 - 163
Tetrachloroethene	ND	RL1	2.18	2.73		mg/kg		125	33 - 155
Toluene	0.575		2.18	3.15		mg/kg		118	45 - 145
1,2,3-Trichlorobenzene	ND	RL1	2.18	2.47		mg/kg		113	10 - 182
1,2,4-Trichlorobenzene	ND	RL1	2.18	2.71		mg/kg		124	10 - 175
1,1,2-Trichloroethane	ND	RL1	2.18	2.36		mg/kg		108	43 - 145
1,1,1-Trichloroethane	ND	RL1	2.18	2.44		mg/kg		112	39 - 148
Trichloroethene	ND	RL1	2.18	2.38		mg/kg		109	39 - 150
Trichlorofluoromethane	1.27		2.18	3.24		mg/kg		90	25 - 174
1,2,3-Trichloropropane	ND	RL1	2.18	2.13		mg/kg		98	10 - 152
1,3,5-Trimethylbenzene	0.251		2.18	2.95		mg/kg		124	38 - 148
1,2,4-Trimethylbenzene	0.668		2.18	3.35		mg/kg		123	22 - 164
Vinyl chloride	ND	RL1	2.18	0.871		mg/kg		40	32 - 163
Xylenes, total	2.27		6.54	9.99		mg/kg		118	31 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*93*		*67 - 138*
Dibromofluoromethane	*94*		*75 - 125*
Toluene-d8	*105*		*76 - 129*
4-Bromofluorobenzene	*101*		*67 - 147*

Lab Sample ID: 11F2574-MSD1 **Client Sample ID: F-08 (2-3)**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010583 **Prep Batch: 11F2574_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	6.33		10.9	17.1		mg/kg		99	29 - 181	9	50
Benzene	0.0838	RL1	2.18	2.61		mg/kg		116	42 - 141	5	50
Bromobenzene	ND	RL1	2.18	2.64		mg/kg		121	19 - 154	7	50
Bromochloromethane	ND	RL1	2.18	2.24		mg/kg		103	41 - 146	4	50
Bromodichloromethane	ND	RL1	2.18	2.35		mg/kg		108	32 - 155	6	50
Bromoform	ND	RL1	2.18	2.40		mg/kg		110	10 - 155	9	43
Bromomethane	ND	RL1	2.18	2.01		mg/kg		92	10 - 199	8	46
1,2-Dibromo-3-chloropropane	ND	RL1	2.18	2.29		mg/kg		105	10 - 167	10	45
2-Butanone	1.80	RL1	10.9	12.7		mg/kg		100	38 - 161	6	50
sec-Butylbenzene	ND	RL1	2.18	2.81		mg/kg		129	10 - 170	4	50
n-Butylbenzene	ND	RL1	2.18	2.89		mg/kg		132	10 - 183	4	50
tert-Butylbenzene	ND	RL1	2.18	2.79		mg/kg		128	11 - 165	5	50
Carbon disulfide	0.0484	RL1	2.18	2.26		mg/kg		101	50 - 136	7	48
Carbon Tetrachloride	ND	RL1	2.18	2.55		mg/kg		117	30 - 159	5	44
Chlorobenzene	ND	RL1	2.18	2.71		mg/kg		124	25 - 151	7	50
Chlorodibromomethane	ND	RL1	2.18	2.52		mg/kg		115	27 - 150	10	48
Chloroethane	ND	RL1	2.18	1.42		mg/kg		65	15 - 197	46	50
Chloroform	ND	RL1	2.18	2.41		mg/kg		110	33 - 148	5	50
Chloromethane	ND	RL1	2.18	2.04		mg/kg		94	10 - 166	2	44
2-Chlorotoluene	ND	RL1	2.18	2.86		mg/kg		131	25 - 166	5	50
4-Chlorotoluene	ND	RL1	2.18	2.97		mg/kg		136	19 - 163	5	50
1,2-Dibromoethane (EDB)	ND	RL1	2.18	2.44		mg/kg		112	30 - 155	9	45

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2574-MSD1 **Client Sample ID: F-08 (2-3)**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010583 **Prep Batch: 11F2574_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dibromomethane	ND	RL1	2.18	2.27		mg/kg		104	30 - 149	6	50
1,4-Dichlorobenzene	ND	RL1	2.18	2.86		mg/kg		131	10 - 170	6	50
1,3-Dichlorobenzene	ND	RL1	2.18	2.82		mg/kg		129	10 - 173	6	50
1,2-Dichlorobenzene	ND	RL1	2.18	2.74		mg/kg		126	10 - 168	7	50
Dichlorodifluoromethane	ND	RL1	2.18	0.950		mg/kg		44	10 - 188	0.9	50
1,1-Dichloroethane	ND	RL1	2.18	2.54		mg/kg		117	51 - 135	5	50
1,2-Dichloroethane	ND	RL1	2.18	2.31		mg/kg		106	32 - 155	5	50
cis-1,2-Dichloroethene	ND	RL1	2.18	2.54		mg/kg		117	32 - 150	5	50
1,1-Dichloroethene	ND	RL1	2.18	1.96		mg/kg		90	46 - 141	7	50
trans-1,2-Dichloroethene	ND	RL1	2.18	2.53		mg/kg		116	41 - 146	6	40
1,3-Dichloropropane	ND	RL1	2.18	2.59		mg/kg		119	35 - 148	12	42
1,2-Dichloropropane	ND	RL1	2.18	2.32		mg/kg		106	34 - 139	4	50
2,2-Dichloropropane	ND	RL1	2.18	2.58		mg/kg		118	29 - 152	5	39
cis-1,3-Dichloropropene	ND	RL1	2.18	2.80		mg/kg		128	23 - 152	7	50
trans-1,3-Dichloropropene	ND	RL1	2.18	2.58		mg/kg		118	24 - 151	7	48
1,1-Dichloropropene	ND	RL1	2.18	2.68		mg/kg		123	40 - 151	4	50
Ethylbenzene	0.603		2.18	3.36		mg/kg		126	21 - 165	5	50
Hexachlorobutadiene	ND	RL1	2.18	2.14		mg/kg		98	10 - 173	3	50
2-Hexanone	ND	RL1	10.9	11.2		mg/kg		102	13 - 174	12	50
Isopropylbenzene	0.380		2.18	3.37		mg/kg		137	20 - 139	5	50
p-Isopropyltoluene	0.168		2.18	2.96		mg/kg		128	10 - 164	6	50
Methyl tert-Butyl Ether	ND	RL1	2.18	2.25		mg/kg		103	34 - 154	6	50
Methylene Chloride	ND	RL1	2.18	2.41		mg/kg		110	36 - 163	7	50
4-Methyl-2-pentanone	1.07	RL1	10.9	12.7		mg/kg		107	19 - 176	10	45
Naphthalene	0.453		2.18	2.93		mg/kg		114	10 - 160	6	50
n-Propylbenzene	0.193		2.18	3.07		mg/kg		132	16 - 174	4	50
Styrene	1.01		2.18	3.74		mg/kg		125	10 - 177	6	50
1,1,1,2-Tetrachloroethane	ND	RL1	2.18	2.62		mg/kg		120	31 - 150	8	50
1,1,2,2-Tetrachloroethane	ND	RL1	2.18	2.40		mg/kg		110	27 - 163	7	45
Tetrachloroethene	ND	RL1	2.18	3.08		mg/kg		141	33 - 155	12	50
Toluene	0.575		2.18	3.35		mg/kg		127	45 - 145	6	50
1,2,3-Trichlorobenzene	ND	RL1	2.18	2.54		mg/kg		117	10 - 182	3	50
1,2,4-Trichlorobenzene	ND	RL1	2.18	2.81		mg/kg		129	10 - 175	4	50
1,1,2-Trichloroethane	ND	RL1	2.18	2.51		mg/kg		115	43 - 145	6	50
1,1,1-Trichloroethane	ND	RL1	2.18	2.55		mg/kg		117	39 - 148	5	41
Trichloroethene	ND	RL1	2.18	2.54		mg/kg		117	39 - 150	6	50
Trichlorofluoromethane	1.27		2.18	3.17		mg/kg		87	25 - 174	2	47
1,2,3-Trichloropropane	ND	RL1	2.18	2.35		mg/kg		108	10 - 152	10	47
1,3,5-Trimethylbenzene	0.251		2.18	3.08		mg/kg		130	38 - 148	4	50
1,2,4-Trimethylbenzene	0.668		2.18	3.47		mg/kg		128	22 - 164	3	50
Vinyl chloride	ND	RL1	2.18	0.875		mg/kg		40	32 - 163	0.4	39
Xylenes, total	2.27		6.54	10.5		mg/kg		126	31 - 159	5	50

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*91*		*67 - 138*
Dibromofluoromethane	*93*		*75 - 125*
Toluene-d8	*105*		*76 - 129*
4-Bromofluorobenzene	*100*		*67 - 147*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2576-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010399 **Prep Batch: 11F2576_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Benzene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Bromobenzene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Bromochloromethane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Bromodichloromethane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Bromoform	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Bromomethane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,2-Dibromo-3-chloropropane	ND		0.00500		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
2-Butanone	ND		0.0500		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
sec-Butylbenzene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
n-Butylbenzene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
tert-Butylbenzene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Carbon disulfide	ND		0.00500		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Carbon Tetrachloride	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Chlorobenzene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Chlorodibromomethane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Chloroethane	ND		0.00500		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Chloroform	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Chloromethane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
2-Chlorotoluene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
4-Chlorotoluene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,2-Dibromoethane (EDB)	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Dibromomethane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,4-Dichlorobenzene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,3-Dichlorobenzene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,2-Dichlorobenzene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Dichlorodifluoromethane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,1-Dichloroethane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,2-Dichloroethane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
cis-1,2-Dichloroethene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,1-Dichloroethene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
trans-1,2-Dichloroethene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,3-Dichloropropane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,2-Dichloropropane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
2,2-Dichloropropane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
cis-1,3-Dichloropropene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
trans-1,3-Dichloropropene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,1-Dichloropropene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Ethylbenzene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Hexachlorobutadiene	ND		0.00500		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
2-Hexanone	ND		0.0500		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Isopropylbenzene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
p-Isopropyltoluene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Methyl tert-Butyl Ether	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Methylene Chloride	ND		0.0100		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
4-Methyl-2-pentanone	ND		0.0500		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Naphthalene	ND		0.00500		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
n-Propylbenzene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Styrene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2576-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010399 **Prep Batch: 11F2576_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Tetrachloroethene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Toluene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,2,3-Trichlorobenzene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,2,4-Trichlorobenzene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,1,2-Trichloroethane	ND		0.00500		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,1,1-Trichloroethane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Trichloroethene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Trichlorofluoromethane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,2,3-Trichloropropane	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,3,5-Trimethylbenzene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
1,2,4-Trimethylbenzene	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Vinyl chloride	ND		0.00200		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00
Xylenes, total	ND		0.00500		mg/kg		06/10/11 09:33	06/10/11 17:46	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*111*		*67 - 138*	*06/10/11 09:33*	*06/10/11 17:46*	*1.00*
Dibromofluoromethane	*99*		*75 - 125*	*06/10/11 09:33*	*06/10/11 17:46*	*1.00*
Toluene-d8	*93*		*76 - 129*	*06/10/11 09:33*	*06/10/11 17:46*	*1.00*
4-Bromofluorobenzene	*100*		*67 - 147*	*06/10/11 09:33*	*06/10/11 17:46*	*1.00*

Lab Sample ID: 11F2576-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010399 **Prep Batch: 11F2576_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	260		ug/kg		104	60 - 150
Benzene	50.0	56.9		ug/kg		114	78 - 126
Bromobenzene	50.0	52.0		ug/kg		104	79 - 126
Bromochloromethane	50.0	57.6		ug/kg		115	78 - 126
Bromodichloromethane	50.0	63.5		ug/kg		127	75 - 129
Bromoform	50.0	48.3		ug/kg		97	74 - 133
Bromomethane	50.0	52.6		ug/kg		105	50 - 150
1,2-Dibromo-3-chloropropane	50.0	49.3		ug/kg		99	62 - 150
2-Butanone	250	277		ug/kg		111	68 - 149
sec-Butylbenzene	50.0	57.1		ug/kg		114	76 - 135
n-Butylbenzene	50.0	58.2		ug/kg		116	73 - 143
tert-Butylbenzene	50.0	55.0		ug/kg		110	80 - 129
Carbon disulfide	50.0	52.9		ug/kg		106	80 - 132
Carbon Tetrachloride	50.0	63.2		ug/kg		126	70 - 138
Chlorobenzene	50.0	56.6		ug/kg		113	80 - 123
Chlorodibromomethane	50.0	50.9		ug/kg		102	80 - 127
Chloroethane	50.0	57.1		ug/kg		114	55 - 150
Chloroform	50.0	57.3		ug/kg		115	70 - 127
Chloromethane	50.0	48.7		ug/kg		97	36 - 137
2-Chlorotoluene	50.0	53.9		ug/kg		108	80 - 130
4-Chlorotoluene	50.0	56.0		ug/kg		112	77 - 132
1,2-Dibromoethane (EDB)	50.0	54.0		ug/kg		108	80 - 131

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2576-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010399 **Prep Batch: 11F2576_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Dibromomethane	50.0	56.5		ug/kg		113	78 - 128
1,4-Dichlorobenzene	50.0	57.2		ug/kg		114	80 - 129
1,3-Dichlorobenzene	50.0	56.9		ug/kg		114	80 - 131
1,2-Dichlorobenzene	50.0	55.2		ug/kg		110	80 - 127
Dichlorodifluoromethane	50.0	38.8		ug/kg		78	30 - 150
1,1-Dichloroethane	50.0	60.0		ug/kg		120	71 - 126
1,2-Dichloroethane	50.0	61.6		ug/kg		123	70 - 139
cis-1,2-Dichloroethene	50.0	59.6		ug/kg		119	75 - 126
1,1-Dichloroethene	50.0	58.4		ug/kg		117	70 - 125
trans-1,2-Dichloroethene	50.0	61.5		ug/kg		123	73 - 128
1,3-Dichloropropane	50.0	55.1		ug/kg		110	79 - 128
1,2-Dichloropropane	50.0	55.7		ug/kg		111	75 - 120
2,2-Dichloropropane	50.0	63.1		ug/kg		126	60 - 139
cis-1,3-Dichloropropene	50.0	63.3		ug/kg		127	74 - 136
trans-1,3-Dichloropropene	50.0	60.7		ug/kg		121	73 - 128
1,1-Dichloropropene	50.0	58.7		ug/kg		117	78 - 125
Ethylbenzene	50.0	57.7		ug/kg		115	79 - 130
Hexachlorobutadiene	50.0	58.1		ug/kg		116	75 - 150
2-Hexanone	250	306		ug/kg		123	65 - 150
Isopropylbenzene	50.0	61.3	L1	ug/kg		123	65 - 121
p-Isopropyltoluene	50.0	55.8		ug/kg		112	76 - 133
Methyl tert-Butyl Ether	50.0	60.9		ug/kg		122	70 - 128
Methylene Chloride	50.0	60.3		ug/kg		121	69 - 140
4-Methyl-2-pentanone	250	292		ug/kg		117	67 - 147
Naphthalene	50.0	56.0		ug/kg		112	72 - 150
n-Propylbenzene	50.0	56.0		ug/kg		112	76 - 133
Styrene	50.0	58.0		ug/kg		116	80 - 140
1,1,1,2-Tetrachloroethane	50.0	55.7		ug/kg		111	80 - 132
1,1,2,2-Tetrachloroethane	50.0	50.7		ug/kg		101	75 - 135
Tetrachloroethene	50.0	59.2		ug/kg		118	76 - 130
Toluene	50.0	53.8		ug/kg		108	76 - 126
1,2,3-Trichlorobenzene	50.0	59.8		ug/kg		120	75 - 150
1,2,4-Trichlorobenzene	50.0	65.8		ug/kg		132	64 - 150
1,1,2-Trichloroethane	50.0	53.9		ug/kg		108	73 - 133
1,1,1-Trichloroethane	50.0	60.9		ug/kg		122	70 - 132
Trichloroethene	50.0	59.2		ug/kg		118	79 - 129
Trichlorofluoromethane	50.0	51.4		ug/kg		103	52 - 148
1,2,3-Trichloropropane	50.0	50.2		ug/kg		100	70 - 125
1,3,5-Trimethylbenzene	50.0	56.6		ug/kg		113	80 - 134
1,2,4-Trimethylbenzene	50.0	56.2		ug/kg		112	80 - 132
Vinyl chloride	50.0	51.5		ug/kg		103	53 - 142
Xylenes, total	150	171		ug/kg		114	80 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*115*		*67 - 138*
Dibromofluoromethane	*98*		*75 - 125*
Toluene-d8	*96*		*76 - 129*
4-Bromofluorobenzene	*99*		*67 - 147*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2576-MS1 **Client Sample ID: F-07A (0-1)**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010399 **Prep Batch: 11F2576_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	0.0280		0.243	1.39	M7	mg/kg		559	29 - 181
Benzene	0.00107		0.0486	0.0196	M8	mg/kg		38	42 - 141
Bromobenzene	ND		0.0486	0.00655	M8	mg/kg		13	19 - 154
Bromochloromethane	ND		0.0486	0.0186	M8	mg/kg		38	41 - 146
Bromodichloromethane	ND		0.0486	0.0107	M8	mg/kg		22	32 - 155
Bromoform	ND		0.0486	0.00707		mg/kg		15	10 - 155
Bromomethane	ND		0.0486	0.00910		mg/kg		19	10 - 199
1,2-Dibromo-3-chloropropane	ND		0.0486	0.00848		mg/kg		17	10 - 167
2-Butanone	ND		0.243	0.258		mg/kg		106	38 - 161
sec-Butylbenzene	ND		0.0486	0.00297	M8	mg/kg		6	10 - 170
n-Butylbenzene	ND		0.0486	0.00239	M8	mg/kg		5	10 - 183
tert-Butylbenzene	ND		0.0486	0.00354	M8	mg/kg		7	11 - 165
Carbon disulfide	0.00140		0.0486	0.0179	M8	mg/kg		34	50 - 136
Carbon Tetrachloride	ND		0.0486	0.0109	M8	mg/kg		22	30 - 159
Chlorobenzene	ND		0.0486	0.00645	M8	mg/kg		13	25 - 151
Chlorodibromomethane	ND		0.0486	0.00770	M8	mg/kg		16	27 - 150
Chloroethane	ND		0.0486	0.0360		mg/kg		74	15 - 197
Chloroform	0.000507		0.0486	0.0250		mg/kg		50	33 - 148
Chloromethane	ND		0.0486	0.0253		mg/kg		52	10 - 166
2-Chlorotoluene	ND		0.0486	0.00553	M8	mg/kg		11	25 - 166
4-Chlorotoluene	ND		0.0486	0.00521	M8	mg/kg		11	19 - 163
1,2-Dibromoethane (EDB)	ND		0.0486	0.00938	M8	mg/kg		19	30 - 155
Dibromomethane	ND		0.0486	0.0130	M8	mg/kg		27	30 - 149
1,4-Dichlorobenzene	ND		0.0486	0.00379	M8	mg/kg		8	10 - 170
1,3-Dichlorobenzene	ND		0.0486	0.00366	M8	mg/kg		8	10 - 173
1,2-Dichlorobenzene	ND		0.0486	0.00346	M8	mg/kg		7	10 - 168
Dichlorodifluoromethane	ND		0.0486	0.0236		mg/kg		48	10 - 188
1,1-Dichloroethane	ND		0.0486	0.0282		mg/kg		58	51 - 135
1,2-Dichloroethane	ND		0.0486	0.0205		mg/kg		42	32 - 155
cis-1,2-Dichloroethene	ND		0.0486	0.0200		mg/kg		41	32 - 150
1,1-Dichloroethene	ND		0.0486	0.0247		mg/kg		51	46 - 141
trans-1,2-Dichloroethene	ND		0.0486	0.0197		mg/kg		41	41 - 146
1,3-Dichloropropane	ND		0.0486	0.0138	M8	mg/kg		28	35 - 148
1,2-Dichloropropane	ND		0.0486	0.0171		mg/kg		35	34 - 139
2,2-Dichloropropane	ND		0.0486	0.0215		mg/kg		44	29 - 152
cis-1,3-Dichloropropene	ND		0.0486	0.00885	M8	mg/kg		18	23 - 152
trans-1,3-Dichloropropene	ND		0.0486	0.00559	M8	mg/kg		12	24 - 151
1,1-Dichloropropene	ND		0.0486	0.0126	M8	mg/kg		26	40 - 151
Ethylbenzene	0.00186		0.0486	0.00857	M8	mg/kg		14	21 - 165
Hexachlorobutadiene	ND		0.0486	ND	M8	mg/kg			10 - 173
2-Hexanone	ND		0.243	0.0931		mg/kg		38	13 - 174
Isopropylbenzene	ND		0.0486	0.00490	M8	mg/kg		10	20 - 139
p-Isopropyltoluene	ND		0.0486	0.00334	M8	mg/kg		7	10 - 164
Methyl tert-Butyl Ether	ND		0.0486	0.0348		mg/kg		72	34 - 154
Methylene Chloride	0.00381		0.0486	0.0345		mg/kg		63	36 - 163
4-Methyl-2-pentanone	ND		0.243	0.131		mg/kg		54	19 - 176
Naphthalene	ND		0.0486	0.00259	M8	mg/kg		5	10 - 160
n-Propylbenzene	ND		0.0486	0.00502	M8	mg/kg		10	16 - 174
Styrene	ND		0.0486	0.00628		mg/kg		13	10 - 177

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2576-MS1 **Client Sample ID: F-07A (0-1)**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010399 **Prep Batch: 11F2576_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	ND		0.0486	0.00834	M8	mg/kg		17	31 - 150
1,1,2,2-Tetrachloroethane	ND		0.0486	0.0129	M8	mg/kg		26	27 - 163
Tetrachloroethene	ND		0.0486	0.00577	M8	mg/kg		12	33 - 155
Toluene	0.00696		0.0486	0.0178	M8	mg/kg		22	45 - 145
1,2,3-Trichlorobenzene	ND		0.0486	0.00117	M8	mg/kg		2	10 - 182
1,2,4-Trichlorobenzene	ND		0.0486	0.00147	M8	mg/kg		3	10 - 175
1,1,2-Trichloroethane	ND		0.0486	0.0145	M8	mg/kg		30	43 - 145
1,1,1-Trichloroethane	ND		0.0486	0.0181	M8	mg/kg		37	39 - 148
Trichloroethene	ND		0.0486	0.0106	M8	mg/kg		22	39 - 150
Trichlorofluoromethane	ND		0.0486	0.0211		mg/kg		43	25 - 174
1,2,3-Trichloropropane	ND		0.0486	0.0162		mg/kg		33	10 - 152
1,3,5-Trimethylbenzene	ND		0.0486	0.00533	M8	mg/kg		11	38 - 148
1,2,4-Trimethylbenzene	0.00123		0.0486	0.0102	M8	mg/kg		18	22 - 164
Vinyl chloride	ND		0.0486	0.0346		mg/kg		71	32 - 163
Xylenes, total	0.00216		0.146	0.0243	M8	mg/kg		15	31 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*113*		*67 - 138*
Dibromofluoromethane	*106*		*75 - 125*
Toluene-d8	*101*		*76 - 129*
4-Bromofluorobenzene	*127*		*67 - 147*

Lab Sample ID: 11F4149-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Benzene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Bromobenzene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Bromochloromethane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Bromodichloromethane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Bromoform	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Bromomethane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,2-Dibromo-3-chloropropane	ND		0.00500		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
2-Butanone	ND		0.0500		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
sec-Butylbenzene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
n-Butylbenzene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
tert-Butylbenzene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Carbon disulfide	ND		0.00500		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Carbon Tetrachloride	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Chlorobenzene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Chlorodibromomethane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Chloroethane	ND		0.00500		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Chloroform	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Chloromethane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
2-Chlorotoluene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
4-Chlorotoluene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,2-Dibromoethane (EDB)	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4149-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,4-Dichlorobenzene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,3-Dichlorobenzene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,2-Dichlorobenzene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Dichlorodifluoromethane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,1-Dichloroethane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,2-Dichloroethane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
cis-1,2-Dichloroethene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,1-Dichloroethene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
trans-1,2-Dichloroethene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,3-Dichloropropane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,2-Dichloropropane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
2,2-Dichloropropane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
cis-1,3-Dichloropropene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
trans-1,3-Dichloropropene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,1-Dichloropropene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Ethylbenzene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Hexachlorobutadiene	ND		0.00500		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
2-Hexanone	ND		0.0500		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Isopropylbenzene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
p-Isopropyltoluene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Methyl tert-Butyl Ether	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Methylene Chloride	ND		0.0100		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
4-Methyl-2-pentanone	ND		0.0500		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Naphthalene	ND		0.00500		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
n-Propylbenzene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Styrene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Tetrachloroethene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Toluene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,2,3-Trichlorobenzene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,2,4-Trichlorobenzene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,1,2-Trichloroethane	ND		0.00500		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,1,1-Trichloroethane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Trichloroethene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Trichlorofluoromethane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,2,3-Trichloropropane	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,3,5-Trimethylbenzene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
1,2,4-Trimethylbenzene	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Vinyl chloride	ND		0.00200		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00
Xylenes, total	ND		0.00500		mg/kg		06/16/11 09:42	06/16/11 12:27	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*94*		*67 - 138*	*06/16/11 09:42*	*06/16/11 12:27*	*1.00*
Dibromofluoromethane	*95*		*75 - 125*	*06/16/11 09:42*	*06/16/11 12:27*	*1.00*
Toluene-d8	*103*		*76 - 129*	*06/16/11 09:42*	*06/16/11 12:27*	*1.00*
4-Bromofluorobenzene	*101*		*67 - 147*	*06/16/11 09:42*	*06/16/11 12:27*	*1.00*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4149-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.50		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Benzene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Bromobenzene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Bromochloromethane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Bromodichloromethane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Bromoform	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Bromomethane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,2-Dibromo-3-chloropropane	ND		0.250		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
2-Butanone	ND		2.50		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
sec-Butylbenzene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
n-Butylbenzene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
tert-Butylbenzene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Carbon disulfide	ND		0.250		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Carbon Tetrachloride	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Chlorobenzene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Chlorodibromomethane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Chloroethane	ND		0.250		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Chloroform	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Chloromethane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
2-Chlorotoluene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
4-Chlorotoluene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,2-Dibromoethane (EDB)	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Dibromomethane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,4-Dichlorobenzene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,3-Dichlorobenzene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,2-Dichlorobenzene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Dichlorodifluoromethane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,1-Dichloroethane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,2-Dichloroethane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
cis-1,2-Dichloroethene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,1-Dichloroethene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
trans-1,2-Dichloroethene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,3-Dichloropropane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,2-Dichloropropane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
2,2-Dichloropropane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
cis-1,3-Dichloropropene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
trans-1,3-Dichloropropene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,1-Dichloropropene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Ethylbenzene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Hexachlorobutadiene	ND		0.250		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
2-Hexanone	ND		2.50		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Isopropylbenzene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
p-Isopropyltoluene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Methyl tert-Butyl Ether	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Methylene Chloride	ND		0.500		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
4-Methyl-2-pentanone	ND		2.50		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Naphthalene	ND		0.250		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
n-Propylbenzene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Styrene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4149-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,1,2,2-Tetrachloroethane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Tetrachloroethene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Toluene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,2,3-Trichlorobenzene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,2,4-Trichlorobenzene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,1,2-Trichloroethane	ND		0.250		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,1,1-Trichloroethane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Trichloroethene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Trichlorofluoromethane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,2,3-Trichloropropane	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,3,5-Trimethylbenzene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
1,2,4-Trimethylbenzene	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Vinyl chloride	ND		0.100		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0
Xylenes, total	ND		0.250		mg/kg		06/16/11 09:42	06/16/11 12:55	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*95*		*67 - 138*	*06/16/11 09:42*	*06/16/11 12:55*	*50.0*
Dibromofluoromethane	*96*		*75 - 125*	*06/16/11 09:42*	*06/16/11 12:55*	*50.0*
Toluene-d8	*108*		*76 - 129*	*06/16/11 09:42*	*06/16/11 12:55*	*50.0*
4-Bromofluorobenzene	*100*		*67 - 147*	*06/16/11 09:42*	*06/16/11 12:55*	*50.0*

Lab Sample ID: 11F4149-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	244		ug/kg		97	60 - 150
Benzene	50.0	54.2		ug/kg		108	78 - 126
Bromobenzene	50.0	55.2		ug/kg		110	79 - 126
Bromochloromethane	50.0	54.9		ug/kg		110	78 - 126
Bromodichloromethane	50.0	52.7		ug/kg		105	75 - 129
Bromoform	50.0	53.0		ug/kg		106	74 - 133
Bromomethane	50.0	49.6		ug/kg		99	50 - 150
1,2-Dibromo-3-chloropropane	50.0	54.8		ug/kg		110	62 - 150
2-Butanone	250	256		ug/kg		102	68 - 149
sec-Butylbenzene	50.0	56.6		ug/kg		113	76 - 135
n-Butylbenzene	50.0	59.3		ug/kg		119	73 - 143
tert-Butylbenzene	50.0	55.9		ug/kg		112	80 - 129
Carbon disulfide	50.0	51.7		ug/kg		103	80 - 132
Carbon Tetrachloride	50.0	54.3		ug/kg		109	70 - 138
Chlorobenzene	50.0	54.2		ug/kg		108	80 - 123
Chlorodibromomethane	50.0	54.2		ug/kg		108	80 - 127
Chloroethane	50.0	59.0		ug/kg		118	55 - 150
Chloroform	50.0	52.6		ug/kg		105	70 - 127
Chloromethane	50.0	41.9		ug/kg		84	36 - 137
2-Chlorotoluene	50.0	54.9		ug/kg		110	80 - 130
4-Chlorotoluene	50.0	56.9		ug/kg		114	77 - 132
1,2-Dibromoethane (EDB)	50.0	54.4		ug/kg		109	80 - 131

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4149-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Dibromomethane	50.0	53.9		ug/kg		108	78 - 128
1,4-Dichlorobenzene	50.0	57.5		ug/kg		115	80 - 129
1,3-Dichlorobenzene	50.0	57.4		ug/kg		115	80 - 131
1,2-Dichlorobenzene	50.0	57.2		ug/kg		114	80 - 127
Dichlorodifluoromethane	50.0	35.8		ug/kg		72	30 - 150
1,1-Dichloroethane	50.0	55.2		ug/kg		110	71 - 126
1,2-Dichloroethane	50.0	53.8		ug/kg		108	70 - 139
cis-1,2-Dichloroethene	50.0	54.9		ug/kg		110	75 - 126
1,1-Dichloroethene	50.0	54.2		ug/kg		108	70 - 125
trans-1,2-Dichloroethene	50.0	54.7		ug/kg		109	73 - 128
1,3-Dichloropropane	50.0	54.5		ug/kg		109	79 - 128
1,2-Dichloropropane	50.0	51.5		ug/kg		103	75 - 120
2,2-Dichloropropane	50.0	56.0		ug/kg		112	60 - 139
cis-1,3-Dichloropropene	50.0	58.6		ug/kg		117	74 - 136
trans-1,3-Dichloropropene	50.0	56.3		ug/kg		113	73 - 128
1,1-Dichloropropene	50.0	55.6		ug/kg		111	78 - 125
Ethylbenzene	50.0	54.7		ug/kg		109	79 - 130
Hexachlorobutadiene	50.0	58.7		ug/kg		117	75 - 150
2-Hexanone	250	262		ug/kg		105	65 - 150
Isopropylbenzene	50.0	59.4		ug/kg		119	65 - 121
p-Isopropyltoluene	50.0	56.2		ug/kg		112	76 - 133
Methyl tert-Butyl Ether	50.0	55.2		ug/kg		110	70 - 128
Methylene Chloride	50.0	57.6		ug/kg		115	69 - 140
4-Methyl-2-pentanone	250	265		ug/kg		106	67 - 147
Naphthalene	50.0	58.4		ug/kg		117	72 - 150
n-Propylbenzene	50.0	56.5		ug/kg		113	76 - 133
Styrene	50.0	54.5		ug/kg		109	80 - 140
1,1,1,2-Tetrachloroethane	50.0	53.9		ug/kg		108	80 - 132
1,1,2,2-Tetrachloroethane	50.0	54.7		ug/kg		109	75 - 135
Tetrachloroethene	50.0	55.2		ug/kg		110	76 - 130
Toluene	50.0	55.7		ug/kg		111	76 - 126
1,2,3-Trichlorobenzene	50.0	60.8		ug/kg		122	75 - 150
1,2,4-Trichlorobenzene	50.0	63.4		ug/kg		127	64 - 150
1,1,2-Trichloroethane	50.0	54.6		ug/kg		109	73 - 133
1,1,1-Trichloroethane	50.0	54.8		ug/kg		110	70 - 132
Trichloroethene	50.0	54.6		ug/kg		109	79 - 129
Trichlorofluoromethane	50.0	48.5		ug/kg		97	52 - 148
1,2,3-Trichloropropane	50.0	52.4		ug/kg		105	70 - 125
1,3,5-Trimethylbenzene	50.0	57.2		ug/kg		114	80 - 134
1,2,4-Trimethylbenzene	50.0	56.8		ug/kg		114	80 - 132
Vinyl chloride	50.0	45.4		ug/kg		91	53 - 142
Xylenes, total	150	165		ug/kg		110	80 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*101*		*67 - 138*
Dibromofluoromethane	*101*		*75 - 125*
Toluene-d8	*104*		*76 - 129*
4-Bromofluorobenzene	*101*		*67 - 147*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4149-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	250	269		ug/kg		108	60 - 150	10	50
Benzene	50.0	56.8		ug/kg		114	78 - 126	5	50
Bromobenzene	50.0	57.6		ug/kg		115	79 - 126	4	50
Bromochloromethane	50.0	56.6		ug/kg		113	78 - 126	3	50
Bromodichloromethane	50.0	55.2		ug/kg		110	75 - 129	5	50
Bromoform	50.0	56.9		ug/kg		114	74 - 133	7	43
Bromomethane	50.0	51.7		ug/kg		103	50 - 150	4	46
1,2-Dibromo-3-chloropropane	50.0	58.5		ug/kg		117	62 - 150	7	45
2-Butanone	250	279		ug/kg		112	68 - 149	9	50
sec-Butylbenzene	50.0	59.2		ug/kg		118	76 - 135	5	50
n-Butylbenzene	50.0	60.9		ug/kg		122	73 - 143	3	50
tert-Butylbenzene	50.0	58.0		ug/kg		116	80 - 129	4	50
Carbon disulfide	50.0	54.2		ug/kg		108	80 - 132	5	48
Carbon Tetrachloride	50.0	56.8		ug/kg		114	70 - 138	5	44
Chlorobenzene	50.0	57.0		ug/kg		114	80 - 123	5	50
Chlorodibromomethane	50.0	56.0		ug/kg		112	80 - 127	3	48
Chloroethane	50.0	59.5		ug/kg		119	55 - 150	0.9	50
Chloroform	50.0	54.9		ug/kg		110	70 - 127	4	50
Chloromethane	50.0	43.1		ug/kg		86	36 - 137	3	44
2-Chlorotoluene	50.0	57.5		ug/kg		115	80 - 130	5	50
4-Chlorotoluene	50.0	58.6		ug/kg		117	77 - 132	3	50
1,2-Dibromoethane (EDB)	50.0	56.2		ug/kg		112	80 - 131	3	45
Dibromomethane	50.0	56.1		ug/kg		112	78 - 128	4	50
1,4-Dichlorobenzene	50.0	60.6		ug/kg		121	80 - 129	5	50
1,3-Dichlorobenzene	50.0	59.4		ug/kg		119	80 - 131	4	50
1,2-Dichlorobenzene	50.0	59.1		ug/kg		118	80 - 127	3	50
Dichlorodifluoromethane	50.0	35.7		ug/kg		71	30 - 150	0.3	50
1,1-Dichloroethane	50.0	57.7		ug/kg		115	71 - 126	4	50
1,2-Dichloroethane	50.0	55.6		ug/kg		111	70 - 139	3	50
cis-1,2-Dichloroethene	50.0	57.3		ug/kg		115	75 - 126	4	50
1,1-Dichloroethene	50.0	57.1		ug/kg		114	70 - 125	5	50
trans-1,2-Dichloroethene	50.0	56.9		ug/kg		114	73 - 128	4	40
1,3-Dichloropropane	50.0	58.8		ug/kg		118	79 - 128	8	42
1,2-Dichloropropane	50.0	54.1		ug/kg		108	75 - 120	5	50
2,2-Dichloropropane	50.0	57.8		ug/kg		116	60 - 139	3	39
cis-1,3-Dichloropropene	50.0	61.0		ug/kg		122	74 - 136	4	50
trans-1,3-Dichloropropene	50.0	58.4		ug/kg		117	73 - 128	4	48
1,1-Dichloropropene	50.0	59.2		ug/kg		118	78 - 125	6	50
Ethylbenzene	50.0	56.9		ug/kg		114	79 - 130	4	50
Hexachlorobutadiene	50.0	59.0		ug/kg		118	75 - 150	0.6	50
2-Hexanone	250	283		ug/kg		113	65 - 150	8	50
Isopropylbenzene	50.0	62.4	L1	ug/kg		125	65 - 121	5	50
p-Isopropyltoluene	50.0	58.6		ug/kg		117	76 - 133	4	50
Methyl tert-Butyl Ether	50.0	57.7		ug/kg		115	70 - 128	4	50
Methylene Chloride	50.0	59.3		ug/kg		119	69 - 140	3	50
4-Methyl-2-pentanone	250	286		ug/kg		114	67 - 147	7	45
Naphthalene	50.0	60.9		ug/kg		122	72 - 150	4	50
n-Propylbenzene	50.0	58.7		ug/kg		117	76 - 133	4	50
Styrene	50.0	56.9		ug/kg		114	80 - 140	4	50

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4149-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	56.5		ug/kg		113	80 - 132	5	50
1,1,2,2-Tetrachloroethane	50.0	57.8		ug/kg		116	75 - 135	5	45
Tetrachloroethene	50.0	62.5		ug/kg		125	76 - 130	12	50
Toluene	50.0	58.0		ug/kg		116	76 - 126	4	50
1,2,3-Trichlorobenzene	50.0	63.0		ug/kg		126	75 - 150	3	50
1,2,4-Trichlorobenzene	50.0	65.2		ug/kg		130	64 - 150	3	50
1,1,2-Trichloroethane	50.0	59.5		ug/kg		119	73 - 133	9	50
1,1,1-Trichloroethane	50.0	57.8		ug/kg		116	70 - 132	5	41
Trichloroethene	50.0	56.2		ug/kg		112	79 - 129	3	50
Trichlorofluoromethane	50.0	50.8		ug/kg		102	52 - 148	5	47
1,2,3-Trichloropropane	50.0	56.7		ug/kg		113	70 - 125	8	47
1,3,5-Trimethylbenzene	50.0	59.2		ug/kg		118	80 - 134	3	50
1,2,4-Trimethylbenzene	50.0	58.8		ug/kg		118	80 - 132	3	50
Vinyl chloride	50.0	47.9		ug/kg		96	53 - 142	5	39
Xylenes, total	150	172		ug/kg		115	80 - 130	4	50

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*102*		*67 - 138*
Dibromofluoromethane	*101*		*75 - 125*
Toluene-d8	*104*		*76 - 129*
4-Bromofluorobenzene	*100*		*67 - 147*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Lab Sample ID: 11F2595-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Acenaphthylene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Anthracene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Benzo (a) anthracene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Benzo (a) pyrene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Benzo (b) fluoranthene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Benzo (g,h,i) perylene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Benzo (k) fluoranthene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
4-Bromophenyl phenyl ether	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Butyl benzyl phthalate	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Carbazole	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
4-Chloro-3-methylphenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
4-Chloroaniline	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Bis(2-chloroethoxy)methane	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Bis(2-chloroethyl)ether	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Bis(2-chloroisopropyl)ether	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2-Chloronaphthalene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2-Chlorophenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
4-Chlorophenyl phenyl ether	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Chrysene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F2595-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz (a,h) anthracene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Dibenzofuran	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Di-n-butyl phthalate	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
1,4-Dichlorobenzene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
1,2-Dichlorobenzene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
1,3-Dichlorobenzene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
3,3-Dichlorobenzidine	ND		0.667		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2,4-Dichlorophenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Diethyl phthalate	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2,4-Dimethylphenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Dimethyl phthalate	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
4,6-Dinitro-2-methylphenol	ND		0.833		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2,4-Dinitrophenol	ND		0.833		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2,6-Dinitrotoluene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2,4-Dinitrotoluene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Di-n-octyl phthalate	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Bis(2-ethylhexyl)phthalate	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Fluoranthene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Fluorene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Hexachlorobenzene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Hexachlorobutadiene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Hexachlorocyclopentadiene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Hexachloroethane	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Isophorone	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2-Methylnaphthalene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2-Methylphenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
3/4-Methylphenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Naphthalene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
3-Nitroaniline	ND		0.833		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2-Nitroaniline	ND		0.833		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
4-Nitroaniline	ND		0.833		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Nitrobenzene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
4-Nitrophenol	ND		0.833		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2-Nitrophenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
N-Nitrosodiphenylamine	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
N-Nitrosodi-n-propylamine	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Pentachlorophenol	ND		0.833		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Phenanthrene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Phenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Pyrene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
Pyridine	ND		0.667		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
1,2,4-Trichlorobenzene	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
1-Methylnaphthalene	ND		0.0670		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2,4,6-Trichlorophenol	ND		0.333		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00
2,4,5-Trichlorophenol	ND		0.833		mg/kg		06/11/11 08:20	06/13/11 22:09	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*90*		*18 - 120*	*06/11/11 08:20*	*06/13/11 22:09*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F2595-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*68*		*19 - 120*	*06/11/11 08:20*	*06/13/11 22:09*	*1.00*
Phenol-d5	*82*		*18 - 120*	*06/11/11 08:20*	*06/13/11 22:09*	*1.00*
2-Fluorobiphenyl	*66*		*14 - 120*	*06/11/11 08:20*	*06/13/11 22:09*	*1.00*
2-Fluorophenol	*79*		*17 - 120*	*06/11/11 08:20*	*06/13/11 22:09*	*1.00*
Nitrobenzene-d5	*71*		*17 - 120*	*06/11/11 08:20*	*06/13/11 22:09*	*1.00*

Lab Sample ID: 11F2595-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.67	1.23		mg/kg		74	49 - 120
Acenaphthylene	1.67	1.25		mg/kg		75	52 - 120
Anthracene	1.67	1.29		mg/kg		77	58 - 120
Benzo (a) anthracene	1.67	1.34		mg/kg		80	57 - 120
Benzo (a) pyrene	1.67	1.34		mg/kg		80	55 - 120
Benzo (b) fluoranthene	1.67	1.27		mg/kg		76	51 - 123
Benzo (g,h,i) perylene	1.67	1.30		mg/kg		78	49 - 121
Benzo (k) fluoranthene	1.67	1.34		mg/kg		80	42 - 129
4-Bromophenyl phenyl ether	1.67	1.34		mg/kg		80	49 - 120
Butyl benzyl phthalate	1.67	1.54		mg/kg		92	59 - 124
Carbazole	1.67	1.34		mg/kg		80	54 - 120
4-Chloro-3-methylphenol	1.67	1.45		mg/kg		87	49 - 120
4-Chloroaniline	1.67	1.32		mg/kg		79	41 - 120
Bis(2-chloroethoxy)methane	1.67	1.36		mg/kg		81	37 - 120
Bis(2-chloroethyl)ether	1.67	1.41		mg/kg		85	29 - 120
Bis(2-chloroisopropyl)ether	1.67	1.44		mg/kg		86	28 - 120
2-Chloronaphthalene	1.67	1.11		mg/kg		67	45 - 120
2-Chlorophenol	1.67	1.46		mg/kg		88	42 - 120
4-Chlorophenyl phenyl ether	1.67	1.30		mg/kg		78	52 - 120
Chrysene	1.67	1.26		mg/kg		76	55 - 120
Dibenz (a,h) anthracene	1.67	1.31		mg/kg		78	50 - 123
Dibenzofuran	1.67	1.22		mg/kg		73	54 - 120
Di-n-butyl phthalate	1.67	1.38		mg/kg		82	58 - 120
1,4-Dichlorobenzene	1.67	1.23		mg/kg		74	15 - 120
1,2-Dichlorobenzene	1.67	1.26		mg/kg		76	17 - 120
1,3-Dichlorobenzene	1.67	1.24		mg/kg		74	13 - 120
3,3-Dichlorobenzidine	1.67	1.36		mg/kg		82	54 - 120
2,4-Dichlorophenol	1.67	1.34		mg/kg		80	43 - 120
Diethyl phthalate	1.67	1.30		mg/kg		78	52 - 120
2,4-Dimethylphenol	1.67	1.26		mg/kg		76	47 - 120
Dimethyl phthalate	1.67	1.28		mg/kg		77	55 - 120
4,6-Dinitro-2-methylphenol	1.67	1.37		mg/kg		82	27 - 134
2,4-Dinitrophenol	1.67	1.19		mg/kg		71	15 - 145
2,6-Dinitrotoluene	1.67	1.36		mg/kg		82	56 - 120
2,4-Dinitrotoluene	1.67	1.29		mg/kg		78	55 - 122
Di-n-octyl phthalate	1.67	1.55		mg/kg		93	48 - 131
Bis(2-ethylhexyl)phthalate	1.67	1.56		mg/kg		94	51 - 127
Fluoranthene	1.67	1.29		mg/kg		77	58 - 120

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F2595-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Fluorene	1.67	1.26		mg/kg		76	54 - 120
Hexachlorobenzene	1.67	1.31		mg/kg		79	56 - 120
Hexachlorobutadiene	1.67	1.35		mg/kg		81	19 - 120
Hexachlorocyclopentadiene	1.67	1.06		mg/kg		63	11 - 120
Hexachloroethane	1.67	1.40		mg/kg		84	14 - 120
Indeno (1,2,3-cd) pyrene	1.67	1.29		mg/kg		77	50 - 122
Isophorone	1.67	1.28		mg/kg		77	43 - 120
2-Methylnaphthalene	1.67	1.24		mg/kg		75	36 - 120
2-Methylphenol	1.67	1.38		mg/kg		83	47 - 120
3/4-Methylphenol	1.67	1.45		mg/kg		87	53 - 135
Naphthalene	1.67	1.31		mg/kg		79	28 - 120
3-Nitroaniline	1.67	1.37		mg/kg		82	54 - 120
2-Nitroaniline	1.67	1.37		mg/kg		82	59 - 120
4-Nitroaniline	1.67	1.35		mg/kg		81	55 - 121
Nitrobenzene	1.67	1.16		mg/kg		70	30 - 120
4-Nitrophenol	1.67	1.39		mg/kg		84	44 - 133
2-Nitrophenol	1.67	1.37		mg/kg		82	36 - 120
N-Nitrosodiphenylamine	1.67	1.54		mg/kg		93	56 - 120
N-Nitrosodi-n-propylamine	1.67	1.50		mg/kg		90	45 - 120
Pentachlorophenol	1.67	1.54		mg/kg		92	42 - 135
Phenanthrene	1.67	1.34		mg/kg		80	56 - 120
Phenol	1.67	1.48		mg/kg		89	45 - 120
Pyrene	1.67	1.33		mg/kg		80	56 - 120
Pyridine	1.67	1.12		mg/kg		67	26 - 120
1,2,4-Trichlorobenzene	1.67	1.10		mg/kg		66	22 - 120
1-Methylnaphthalene	1.67	1.12		mg/kg		67	36 - 120
2,4,6-Trichlorophenol	1.67	1.32		mg/kg		79	50 - 120
2,4,5-Trichlorophenol	1.67	1.23		mg/kg		74	54 - 120

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*82*		*18 - 120*
2,4,6-Tribromophenol	*64*		*19 - 120*
Phenol-d5	*75*		*18 - 120*
2-Fluorobiphenyl	*62*		*14 - 120*
2-Fluorophenol	*72*		*17 - 120*
Nitrobenzene-d5	*63*		*17 - 120*

Lab Sample ID: 11F2595-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	1.67	1.10		mg/kg		66	49 - 120	11	40
Acenaphthylene	1.67	1.13		mg/kg		68	52 - 120	10	30
Anthracene	1.67	1.15		mg/kg		69	58 - 120	11	50
Benzo (a) anthracene	1.67	1.19		mg/kg		71	57 - 120	12	30
Benzo (a) pyrene	1.67	1.17		mg/kg		70	55 - 120	13	33
Benzo (b) fluoranthene	1.67	1.10		mg/kg		66	51 - 123	14	42
Benzo (g,h,i) perylene	1.67	1.12		mg/kg		67	49 - 121	15	32

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F2595-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzo (k) fluoranthene	1.67	1.18		mg/kg		71	42 - 129	12	39
4-Bromophenyl phenyl ether	1.67	1.12		mg/kg		67	49 - 120	18	31
Butyl benzyl phthalate	1.67	1.36		mg/kg		82	59 - 124	12	37
Carbazole	1.67	1.22		mg/kg		73	54 - 120	10	29
4-Chloro-3-methylphenol	1.67	1.28		mg/kg		76	49 - 120	13	34
4-Chloroaniline	1.67	1.16		mg/kg		70	41 - 120	13	43
Bis(2-chloroethoxy)methane	1.67	1.18		mg/kg		71	37 - 120	14	41
Bis(2-chloroethyl)ether	1.67	1.22		mg/kg		73	29 - 120	15	41
Bis(2-chloroisopropyl)ether	1.67	1.25		mg/kg		75	28 - 120	14	50
2-Chloronaphthalene	1.67	0.971		mg/kg		58	45 - 120	13	34
2-Chlorophenol	1.67	1.25		mg/kg		75	42 - 120	16	45
4-Chlorophenyl phenyl ether	1.67	1.15		mg/kg		69	52 - 120	12	31
Chrysene	1.67	1.13		mg/kg		68	55 - 120	11	34
Dibenz (a,h) anthracene	1.67	1.13		mg/kg		68	50 - 123	15	31
Dibenzofuran	1.67	1.11		mg/kg		67	54 - 120	9	39
Di-n-butyl phthalate	1.67	1.25		mg/kg		75	58 - 120	10	29
1,4-Dichlorobenzene	1.67	1.06		mg/kg		64	15 - 120	15	50
1,2-Dichlorobenzene	1.67	1.09		mg/kg		65	17 - 120	15	50
1,3-Dichlorobenzene	1.67	1.06		mg/kg		64	13 - 120	15	50
3,3-Dichlorobenzidine	1.67	1.22		mg/kg		73	54 - 120	11	35
2,4-Dichlorophenol	1.67	1.17		mg/kg		70	43 - 120	14	35
Diethyl phthalate	1.67	1.20		mg/kg		72	52 - 120	8	33
2,4-Dimethylphenol	1.67	1.20		mg/kg		72	47 - 120	4	50
Dimethyl phthalate	1.67	1.16		mg/kg		70	55 - 120	10	31
4,6-Dinitro-2-methylphenol	1.67	1.20		mg/kg		72	27 - 134	14	50
2,4-Dinitrophenol	1.67	1.14		mg/kg		69	15 - 145	4	50
2,6-Dinitrotoluene	1.67	1.20		mg/kg		72	56 - 120	13	34
2,4-Dinitrotoluene	1.67	1.19		mg/kg		72	55 - 122	8	31
Di-n-octyl phthalate	1.67	1.40		mg/kg		84	48 - 131	10	31
Bis(2-ethylhexyl)phthalate	1.67	1.38		mg/kg		83	51 - 127	12	32
Fluoranthene	1.67	1.21		mg/kg		73	58 - 120	6	35
Fluorene	1.67	1.13		mg/kg		68	54 - 120	11	37
Hexachlorobenzene	1.67	1.12		mg/kg		67	56 - 120	16	28
Hexachlorobutadiene	1.67	1.15		mg/kg		69	19 - 120	16	50
Hexachlorocyclopentadiene	1.67	0.863		mg/kg		52	11 - 120	20	50
Hexachloroethane	1.67	1.22		mg/kg		73	14 - 120	14	50
Indeno (1,2,3-cd) pyrene	1.67	1.12		mg/kg		67	50 - 122	14	32
Isophorone	1.67	1.14		mg/kg		68	43 - 120	11	36
2-Methylnaphthalene	1.67	1.10		mg/kg		66	36 - 120	12	50
2-Methylphenol	1.67	1.25		mg/kg		75	47 - 120	10	41
3/4-Methylphenol	1.67	1.31		mg/kg		79	53 - 135	10	39
Naphthalene	1.67	1.17		mg/kg		70	28 - 120	12	34
3-Nitroaniline	1.67	1.23		mg/kg		74	54 - 120	11	35
2-Nitroaniline	1.67	1.21		mg/kg		73	59 - 120	12	28
4-Nitroaniline	1.67	1.23		mg/kg		74	55 - 121	10	36
Nitrobenzene	1.67	0.998		mg/kg		60	30 - 120	15	44
4-Nitrophenol	1.67	1.24		mg/kg		74	44 - 133	12	47
2-Nitrophenol	1.67	1.17		mg/kg		70	36 - 120	16	43
N-Nitrosodiphenylamine	1.67	1.34		mg/kg		81	56 - 120	14	30
N-Nitrosodi-n-propylamine	1.67	1.31		mg/kg		78	45 - 120	14	41

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F2595-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Pentachlorophenol			1.67	1.40		mg/kg		84	42 - 135	10	32
Phenanthrene			1.67	1.18		mg/kg		71	56 - 120	12	32
Phenol			1.67	1.32		mg/kg		79	45 - 120	12	42
Pyrene			1.67	1.14		mg/kg		69	56 - 120	15	40
Pyridine			1.67	1.04		mg/kg		63	26 - 120	7	50
1,2,4-Trichlorobenzene			1.67	0.932		mg/kg		56	22 - 120	17	46
1-Methylnaphthalene			1.67	1.00		mg/kg		60	36 - 120	11	45
2,4,6-Trichlorophenol			1.67	1.12		mg/kg		67	50 - 120	17	34
2,4,5-Trichlorophenol			1.67	1.06		mg/kg		64	54 - 120	15	33

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
Terphenyl-d14	*70*		*18 - 120*
2,4,6-Tribromophenol	*55*		*19 - 120*
Phenol-d5	*65*		*18 - 120*
2-Fluorobiphenyl	*53*		*14 - 120*
2-Fluorophenol	*60*		*17 - 120*
Nitrobenzene-d5	*53*		*17 - 120*

Lab Sample ID: 11F2595-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Acenaphthene	ND		1.65	1.20		mg/kg		73	42 - 120		
Acenaphthylene	0.0350		1.65	1.21		mg/kg		72	32 - 120		
Anthracene	0.0550		1.65	1.45		mg/kg		85	10 - 200		
Benzo (a) anthracene	0.151		1.65	1.37		mg/kg		74	41 - 120		
Benzo (a) pyrene	0.134		1.65	1.31		mg/kg		72	33 - 121		
Benzo (b) fluoranthene	0.277		1.65	1.51		mg/kg		75	26 - 137		
Benzo (g,h,i) perylene	0.105		1.65	1.26		mg/kg		70	21 - 124		
Benzo (k) fluoranthene	0.143		1.65	1.24		mg/kg		67	14 - 140		
4-Bromophenyl phenyl ether	ND		1.65	1.28		mg/kg		78	39 - 120		
Butyl benzyl phthalate	ND		1.65	1.53		mg/kg		93	47 - 124		
Carbazole	ND		1.65	1.28		mg/kg		78	37 - 120		
4-Chloro-3-methylphenol	ND		1.65	1.46		mg/kg		89	38 - 120		
4-Chloroaniline	ND		1.65	1.18		mg/kg		72	20 - 120		
Bis(2-chloroethoxy)methane	ND		1.65	1.36		mg/kg		83	32 - 120		
Bis(2-chloroethyl)ether	ND		1.65	1.35		mg/kg		82	25 - 120		
Bis(2-chloroisopropyl)ether	ND		1.65	1.44		mg/kg		88	23 - 120		
2-Chloronaphthalene	ND		1.65	1.07		mg/kg		65	39 - 120		
2-Chlorophenol	ND		1.65	1.47		mg/kg		89	28 - 120		
4-Chlorophenyl phenyl ether	ND		1.65	1.26		mg/kg		76	43 - 120		
Chrysene	0.276		1.65	1.45		mg/kg		71	28 - 123		
Dibenz (a,h) anthracene	0.0527		1.65	1.24		mg/kg		72	25 - 127		
Dibenzofuran	0.0540		1.65	1.23		mg/kg		72	40 - 120		
Di-n-butyl phthalate	ND		1.65	1.34		mg/kg		81	32 - 124		
1,4-Dichlorobenzene	ND		1.65	1.23		mg/kg		75	10 - 120		
1,2-Dichlorobenzene	ND		1.65	1.25		mg/kg		76	10 - 120		
1,3-Dichlorobenzene	ND		1.65	1.23		mg/kg		75	10 - 120		

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F2595-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
3,3-Dichlorobenzidine	ND		1.65	0.493		mg/kg		30	13 - 120
2,4-Dichlorophenol	ND		1.65	1.41		mg/kg		85	33 - 120
Diethyl phthalate	ND		1.65	1.22		mg/kg		74	34 - 120
2,4-Dimethylphenol	ND		1.65	1.41		mg/kg		86	29 - 120
Dimethyl phthalate	ND		1.65	1.18		mg/kg		72	43 - 120
4,6-Dinitro-2-methylphenol	ND		1.65	1.08		mg/kg		66	10 - 134
2,4-Dinitrophenol	ND		1.65	0.746		mg/kg		45	10 - 145
2,6-Dinitrotoluene	ND		1.65	1.27		mg/kg		77	43 - 120
2,4-Dinitrotoluene	ND		1.65	1.22		mg/kg		74	42 - 122
Di-n-octyl phthalate	ND		1.65	1.70		mg/kg		103	34 - 135
Bis(2-ethylhexyl)phthalate	0.210		1.65	1.79		mg/kg		96	40 - 127
Fluoranthene	0.226		1.65	1.40		mg/kg		71	38 - 120
Fluorene	0.0360		1.65	1.23		mg/kg		72	41 - 120
Hexachlorobenzene	ND		1.65	1.26		mg/kg		76	44 - 120
Hexachlorobutadiene	ND		1.65	1.44		mg/kg		88	17 - 120
Hexachlorocyclopentadiene	ND		1.65	0.973		mg/kg		59	10 - 120
Hexachloroethane	ND		1.65	1.41		mg/kg		86	10 - 120
Indeno (1,2,3-cd) pyrene	0.0939		1.65	1.26		mg/kg		71	25 - 123
Isophorone	ND		1.65	1.25		mg/kg		76	32 - 120
2-Methylnaphthalene	0.107		1.65	1.40		mg/kg		79	11 - 120
2-Methylphenol	ND		1.65	1.41		mg/kg		86	41 - 120
3/4-Methylphenol	ND		1.65	1.46		mg/kg		89	36 - 127
Naphthalene	0.0576		1.65	1.39		mg/kg		81	25 - 120
3-Nitroaniline	ND		1.65	1.13		mg/kg		69	36 - 120
2-Nitroaniline	ND		1.65	1.31		mg/kg		80	46 - 120
4-Nitroaniline	ND		1.65	1.06		mg/kg		65	35 - 121
Nitrobenzene	ND		1.65	1.16		mg/kg		71	26 - 120
4-Nitrophenol	ND		1.65	1.26		mg/kg		76	19 - 136
2-Nitrophenol	ND		1.65	1.44		mg/kg		87	26 - 120
N-Nitrosodiphenylamine	ND		1.65	1.49		mg/kg		91	43 - 120
N-Nitrosodi-n-propylamine	ND		1.65	1.44		mg/kg		88	34 - 120
Pentachlorophenol	ND		1.65	1.29		mg/kg		78	15 - 135
Phenanthrene	0.239		1.65	1.39		mg/kg		70	37 - 120
Phenol	ND		1.65	1.49		mg/kg		90	38 - 120
Pyrene	0.219		1.65	1.41		mg/kg		73	29 - 125
Pyridine	ND		1.65	1.15		mg/kg		70	10 - 120
1,2,4-Trichlorobenzene	ND		1.65	1.15		mg/kg		70	22 - 120
1-Methylnaphthalene	0.104		1.65	1.25		mg/kg		69	19 - 120
2,4,6-Trichlorophenol	ND		1.65	1.29		mg/kg		78	32 - 120
2,4,5-Trichlorophenol	ND		1.65	1.15		mg/kg		70	39 - 120

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
Terphenyl-d14	*79*		*18 - 120*
2,4,6-Tribromophenol	*63*		*19 - 120*
Phenol-d5	*76*		*18 - 120*
2-Fluorobiphenyl	*59*		*14 - 120*
2-Fluorophenol	*72*		*17 - 120*
Nitrobenzene-d5	*65*		*17 - 120*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F2595-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		1.64	1.10		mg/kg		67	42 - 120	8	40
Acenaphthylene	0.0350		1.64	1.11		mg/kg		65	32 - 120	9	30
Anthracene	0.0550		1.64	1.12		mg/kg		65	10 - 200	26	50
Benzo (a) anthracene	0.151		1.64	1.31		mg/kg		71	41 - 120	4	30
Benzo (a) pyrene	0.134		1.64	1.28		mg/kg		70	33 - 121	3	33
Benzo (b) fluoranthene	0.277		1.64	1.65		mg/kg		84	26 - 137	9	42
Benzo (g,h,i) perylene	0.105		1.64	1.23		mg/kg		69	21 - 124	2	32
Benzo (k) fluoranthene	0.143		1.64	1.02		mg/kg		53	14 - 140	20	39
4-Bromophenyl phenyl ether	ND		1.64	1.18		mg/kg		72	39 - 120	8	31
Butyl benzyl phthalate	ND		1.64	1.44		mg/kg		88	47 - 124	6	37
Carbazole	ND		1.64	1.12		mg/kg		68	37 - 120	13	29
4-Chloro-3-methylphenol	ND		1.64	1.27		mg/kg		77	38 - 120	14	34
4-Chloroaniline	ND		1.64	0.992		mg/kg		60	20 - 120	17	43
Bis(2-chloroethoxy)methane	ND		1.64	1.24		mg/kg		75	32 - 120	9	41
Bis(2-chloroethyl)ether	ND		1.64	1.22		mg/kg		74	25 - 120	10	41
Bis(2-chloroisopropyl)ether	ND		1.64	1.27		mg/kg		78	23 - 120	12	50
2-Chloronaphthalene	ND		1.64	0.985		mg/kg		60	39 - 120	8	34
2-Chlorophenol	ND		1.64	1.27		mg/kg		77	28 - 120	15	45
4-Chlorophenyl phenyl ether	ND		1.64	1.11		mg/kg		68	43 - 120	12	31
Chrysene	0.276		1.64	1.39		mg/kg		68	28 - 123	4	34
Dibenz (a,h) anthracene	0.0527		1.64	1.17		mg/kg		68	25 - 127	6	31
Dibenzofuran	0.0540		1.64	1.12		mg/kg		65	40 - 120	10	39
Di-n-butyl phthalate	ND		1.64	1.19		mg/kg		72	32 - 124	12	29
1,4-Dichlorobenzene	ND		1.64	1.05		mg/kg		64	10 - 120	16	50
1,2-Dichlorobenzene	ND		1.64	1.09		mg/kg		66	10 - 120	14	50
1,3-Dichlorobenzene	ND		1.64	1.08		mg/kg		66	10 - 120	13	50
3,3-Dichlorobenzidine	ND		1.64	0.297	M8 R2	mg/kg		18	13 - 120	50	35
2,4-Dichlorophenol	ND		1.64	1.21		mg/kg		74	33 - 120	15	35
Diethyl phthalate	ND		1.64	1.10		mg/kg		67	34 - 120	11	33
2,4-Dimethylphenol	ND		1.64	1.22		mg/kg		74	29 - 120	14	50
Dimethyl phthalate	ND		1.64	1.08		mg/kg		66	43 - 120	9	31
4,6-Dinitro-2-methylphenol	ND		1.64	0.872		mg/kg		53	10 - 134	21	50
2,4-Dinitrophenol	ND		1.64	0.601		mg/kg		37	10 - 145	22	50
2,6-Dinitrotoluene	ND		1.64	1.12		mg/kg		68	43 - 120	13	34
2,4-Dinitrotoluene	ND		1.64	1.05		mg/kg		64	42 - 122	14	31
Di-n-octyl phthalate	ND		1.64	1.48		mg/kg		90	34 - 135	13	31
Bis(2-ethylhexyl)phthalate	0.210		1.64	1.57		mg/kg		83	40 - 127	13	32
Fluoranthene	0.226		1.64	1.19		mg/kg		59	38 - 120	16	35
Fluorene	0.0360		1.64	1.10		mg/kg		65	41 - 120	11	37
Hexachlorobenzene	ND		1.64	1.16		mg/kg		71	44 - 120	8	28
Hexachlorobutadiene	ND		1.64	1.28		mg/kg		78	17 - 120	12	50
Hexachlorocyclopentadiene	ND		1.64	0.841		mg/kg		51	10 - 120	15	50
Hexachloroethane	ND		1.64	1.24		mg/kg		75	10 - 120	13	50
Indeno (1,2,3-cd) pyrene	0.0939		1.64	1.21		mg/kg		68	25 - 123	3	32
Isophorone	ND		1.64	1.15		mg/kg		70	32 - 120	8	36
2-Methylnaphthalene	0.107		1.64	1.22		mg/kg		68	11 - 120	14	50
2-Methylphenol	ND		1.64	1.22		mg/kg		74	41 - 120	15	41
3/4-Methylphenol	ND		1.64	1.28		mg/kg		78	36 - 127	13	39
Naphthalene	0.0576		1.64	1.23		mg/kg		71	25 - 120	12	42

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F2595-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2595 **Prep Batch: 11F2595_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
3-Nitroaniline	ND		1.64	0.974		mg/kg		59	36 - 120	15	35
2-Nitroaniline	ND		1.64	1.20		mg/kg		73	46 - 120	9	28
4-Nitroaniline	ND		1.64	0.854		mg/kg		52	35 - 121	22	36
Nitrobenzene	ND		1.64	1.08		mg/kg		66	26 - 120	8	44
4-Nitrophenol	ND		1.64	1.07		mg/kg		65	19 - 136	16	47
2-Nitrophenol	ND		1.64	1.29		mg/kg		78	26 - 120	11	43
N-Nitrosodiphenylamine	ND		1.64	1.39		mg/kg		85	43 - 120	7	30
N-Nitrosodi-n-propylamine	ND		1.64	1.26		mg/kg		76	34 - 120	14	41
Pentachlorophenol	ND		1.64	1.07		mg/kg		65	15 - 135	18	32
Phenanthrene	0.239		1.64	1.27		mg/kg		63	37 - 120	9	32
Phenol	ND		1.64	1.28		mg/kg		78	38 - 120	15	42
Pyrene	0.219		1.64	1.38		mg/kg		71	29 - 125	3	40
Pyridine	ND		1.64	1.05		mg/kg		64	10 - 120	9	50
1,2,4-Trichlorobenzene	ND		1.64	1.03		mg/kg		63	22 - 120	11	46
1-Methylnaphthalene	0.104		1.64	1.07		mg/kg		59	19 - 120	15	45
2,4,6-Trichlorophenol	ND		1.64	1.19		mg/kg		72	32 - 120	9	34
2,4,5-Trichlorophenol	ND		1.64	1.06		mg/kg		64	39 - 120	9	33

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Terphenyl-d14	*70*		*18 - 120*
2,4,6-Tribromophenol	*55*		*19 - 120*
Phenol-d5	*63*		*18 - 120*
2-Fluorobiphenyl	*54*		*14 - 120*
2-Fluorophenol	*62*		*17 - 120*
Nitrobenzene-d5	*59*		*17 - 120*

Lab Sample ID: 11F3768-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3768 **Prep Batch: 11F3768_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Acenaphthylene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Anthracene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Benzo (a) anthracene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Benzo (a) pyrene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Benzo (b) fluoranthene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Benzo (g,h,i) perylene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Benzo (k) fluoranthene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
4-Bromophenyl phenyl ether	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Butyl benzyl phthalate	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Carbazole	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
4-Chloro-3-methylphenol	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
4-Chloroaniline	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Bis(2-chloroethoxy)methane	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Bis(2-chloroethyl)ether	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Bis(2-chloroisopropyl)ether	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
2-Chloronaphthalene	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
2-Chlorophenol	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3768-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3768 **Prep Batch: 11F3768_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Chrysene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Dibenz (a,h) anthracene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Dibenzofuran	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Di-n-butyl phthalate	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
1,4-Dichlorobenzene	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
1,2-Dichlorobenzene	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
1,3-Dichlorobenzene	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
3,3-Dichlorobenzidine	ND		0.667		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
2,4-Dichlorophenol	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Diethyl phthalate	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
2,4-Dimethylphenol	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Dimethyl phthalate	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
4,6-Dinitro-2-methylphenol	ND		0.833		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
2,4-Dinitrophenol	ND		0.833		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
2,6-Dinitrotoluene	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
2,4-Dinitrotoluene	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Di-n-octyl phthalate	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Bis(2-ethylhexyl)phthalate	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Fluoranthene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Fluorene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Hexachlorobenzene	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Hexachlorobutadiene	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Hexachlorocyclopentadiene	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Hexachloroethane	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Isophorone	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
2-Methylnaphthalene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
2-Methylphenol	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
3/4-Methylphenol	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Naphthalene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
3-Nitroaniline	ND		0.833		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
2-Nitroaniline	ND		0.833		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
4-Nitroaniline	ND		0.833		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Nitrobenzene	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
4-Nitrophenol	ND		0.833		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
2-Nitrophenol	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
N-Nitrosodiphenylamine	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
N-Nitrosodi-n-propylamine	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Pentachlorophenol	ND		0.833		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Phenanthrene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Phenol	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Pyrene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
Pyridine	ND		0.667		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
1,2,4-Trichlorobenzene	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
1-Methylnaphthalene	ND		0.0670		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
2,4,6-Trichlorophenol	ND		0.333		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00
2,4,5-Trichlorophenol	ND		0.833		mg/kg		06/15/11 13:05	06/16/11 11:11	1.00

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3768-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3768 **Prep Batch: 11F3768_P**

Surrogate	Blank % Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	80		18 - 120	06/15/11 13:05	06/16/11 11:11	1.00
2,4,6-Tribromophenol	60		19 - 120	06/15/11 13:05	06/16/11 11:11	1.00
Phenol-d5	66		18 - 120	06/15/11 13:05	06/16/11 11:11	1.00
2-Fluorobiphenyl	64		14 - 120	06/15/11 13:05	06/16/11 11:11	1.00
2-Fluorophenol	66		17 - 120	06/15/11 13:05	06/16/11 11:11	1.00
Nitrobenzene-d5	65		17 - 120	06/15/11 13:05	06/16/11 11:11	1.00

Lab Sample ID: 11F3768-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3768 **Prep Batch: 11F3768_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.67	1.20		mg/kg		72	49 - 120
Acenaphthylene	1.67	1.25		mg/kg		75	52 - 120
Anthracene	1.67	1.26		mg/kg		76	58 - 120
Benzo (a) anthracene	1.67	1.25		mg/kg		75	57 - 120
Benzo (a) pyrene	1.67	1.25		mg/kg		75	55 - 120
Benzo (b) fluoranthene	1.67	1.26		mg/kg		75	51 - 123
Benzo (g,h,i) perylene	1.67	1.27		mg/kg		76	49 - 121
Benzo (k) fluoranthene	1.67	1.14		mg/kg		68	42 - 129
4-Bromophenyl phenyl ether	1.67	1.25		mg/kg		75	49 - 120
Butyl benzyl phthalate	1.67	1.37		mg/kg		82	59 - 124
Carbazole	1.67	1.28		mg/kg		77	54 - 120
4-Chloro-3-methylphenol	1.67	1.31		mg/kg		79	49 - 120
4-Chloroaniline	1.67	1.22		mg/kg		73	41 - 120
Bis(2-chloroethoxy)methane	1.67	1.26		mg/kg		75	37 - 120
Bis(2-chloroethyl)ether	1.67	1.17		mg/kg		70	29 - 120
Bis(2-chloroisopropyl)ether	1.67	1.23		mg/kg		74	28 - 120
2-Chloronaphthalene	1.67	1.09		mg/kg		66	45 - 120
2-Chlorophenol	1.67	1.26		mg/kg		76	42 - 120
4-Chlorophenyl phenyl ether	1.67	1.22		mg/kg		73	52 - 120
Chrysene	1.67	1.18		mg/kg		71	55 - 120
Dibenz (a,h) anthracene	1.67	1.25		mg/kg		75	50 - 123
Dibenzofuran	1.67	1.20		mg/kg		72	54 - 120
Di-n-butyl phthalate	1.67	1.30		mg/kg		78	58 - 120
1,4-Dichlorobenzene	1.67	1.08		mg/kg		65	15 - 120
1,2-Dichlorobenzene	1.67	1.10		mg/kg		66	17 - 120
1,3-Dichlorobenzene	1.67	1.11		mg/kg		66	13 - 120
3,3-Dichlorobenzidine	1.67	1.30		mg/kg		78	54 - 120
2,4-Dichlorophenol	1.67	1.27		mg/kg		76	43 - 120
Diethyl phthalate	1.67	1.22		mg/kg		73	52 - 120
2,4-Dimethylphenol	1.67	1.30		mg/kg		78	47 - 120
Dimethyl phthalate	1.67	1.19		mg/kg		71	55 - 120
4,6-Dinitro-2-methylphenol	1.67	1.25		mg/kg		75	27 - 134
2,4-Dinitrophenol	1.67	1.00		mg/kg		60	15 - 145
2,6-Dinitrotoluene	1.67	1.24		mg/kg		74	56 - 120
2,4-Dinitrotoluene	1.67	1.15		mg/kg		69	55 - 122
Di-n-octyl phthalate	1.67	1.42		mg/kg		85	48 - 131
Bis(2-ethylhexyl)phthalate	1.67	1.39		mg/kg		83	51 - 127

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3768-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3768 **Prep Batch: 11F3768_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Fluoranthene	1.67	1.26		mg/kg		75	58 - 120
Fluorene	1.67	1.21		mg/kg		73	54 - 120
Hexachlorobenzene	1.67	1.22		mg/kg		73	56 - 120
Hexachlorobutadiene	1.67	1.35		mg/kg		81	19 - 120
Hexachlorocyclopentadiene	1.67	1.03		mg/kg		62	11 - 120
Hexachloroethane	1.67	1.23		mg/kg		74	14 - 120
Indeno (1,2,3-cd) pyrene	1.67	1.26		mg/kg		76	50 - 122
Isophorone	1.67	1.19		mg/kg		72	43 - 120
2-Methylnaphthalene	1.67	1.18		mg/kg		71	36 - 120
2-Methylphenol	1.67	1.19		mg/kg		71	47 - 120
3/4-Methylphenol	1.67	1.20		mg/kg		72	53 - 135
Naphthalene	1.67	1.29		mg/kg		78	28 - 120
3-Nitroaniline	1.67	1.27		mg/kg		76	54 - 120
2-Nitroaniline	1.67	1.27		mg/kg		76	59 - 120
4-Nitroaniline	1.67	1.23		mg/kg		74	55 - 121
Nitrobenzene	1.67	1.15		mg/kg		69	30 - 120
4-Nitrophenol	1.67	1.25		mg/kg		75	44 - 133
2-Nitrophenol	1.67	1.32		mg/kg		79	36 - 120
N-Nitrosodiphenylamine	1.67	1.47		mg/kg		88	56 - 120
N-Nitrosodi-n-propylamine	1.67	1.26		mg/kg		75	45 - 120
Pentachlorophenol	1.67	1.41		mg/kg		85	42 - 135
Phenanthrene	1.67	1.26		mg/kg		76	56 - 120
Phenol	1.67	1.24		mg/kg		74	45 - 120
Pyrene	1.67	1.22		mg/kg		73	56 - 120
Pyridine	1.67	1.10		mg/kg		66	26 - 120
1,2,4-Trichlorobenzene	1.67	1.08		mg/kg		65	22 - 120
1-Methylnaphthalene	1.67	1.06		mg/kg		64	36 - 120
2,4,6-Trichlorophenol	1.67	1.28		mg/kg		77	50 - 120
2,4,5-Trichlorophenol	1.67	1.15		mg/kg		69	54 - 120

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*76*		*18 - 120*
2,4,6-Tribromophenol	*61*		*19 - 120*
Phenol-d5	*65*		*18 - 120*
2-Fluorobiphenyl	*63*		*14 - 120*
2-Fluorophenol	*66*		*17 - 120*
Nitrobenzene-d5	*65*		*17 - 120*

Lab Sample ID: 11F3768-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3768 **Prep Batch: 11F3768_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	1.67	1.28		mg/kg		77	49 - 120	6	40
Acenaphthylene	1.67	1.31		mg/kg		79	52 - 120	5	30
Anthracene	1.67	1.32		mg/kg		79	58 - 120	5	50
Benzo (a) anthracene	1.67	1.30		mg/kg		78	57 - 120	4	30
Benzo (a) pyrene	1.67	1.32		mg/kg		79	55 - 120	6	33
Benzo (b) fluoranthene	1.67	1.36		mg/kg		81	51 - 123	8	42

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3768-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3768 **Prep Batch: 11F3768_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzo (g,h,i) perylene	1.67	1.34		mg/kg		81	49 - 121	5	32
Benzo (k) fluoranthene	1.67	1.18		mg/kg		71	42 - 129	3	39
4-Bromophenyl phenyl ether	1.67	1.32		mg/kg		79	49 - 120	6	31
Butyl benzyl phthalate	1.67	1.45		mg/kg		87	59 - 124	5	37
Carbazole	1.67	1.34		mg/kg		80	54 - 120	5	29
4-Chloro-3-methylphenol	1.67	1.42		mg/kg		85	49 - 120	8	34
4-Chloroaniline	1.67	1.31		mg/kg		79	41 - 120	8	43
Bis(2-chloroethoxy)methane	1.67	1.33		mg/kg		80	37 - 120	6	41
Bis(2-chloroethyl)ether	1.67	1.23		mg/kg		74	29 - 120	5	41
Bis(2-chloroisopropyl)ether	1.67	1.30		mg/kg		78	28 - 120	6	50
2-Chloronaphthalene	1.67	1.14		mg/kg		69	45 - 120	5	34
2-Chlorophenol	1.67	1.33		mg/kg		80	42 - 120	6	45
4-Chlorophenyl phenyl ether	1.67	1.33		mg/kg		80	52 - 120	8	31
Chrysene	1.67	1.23		mg/kg		74	55 - 120	5	34
Dibenz (a,h) anthracene	1.67	1.34		mg/kg		81	50 - 123	7	31
Dibenzofuran	1.67	1.27		mg/kg		76	54 - 120	6	39
Di-n-butyl phthalate	1.67	1.35		mg/kg		81	58 - 120	3	29
1,4-Dichlorobenzene	1.67	1.14		mg/kg		68	15 - 120	5	50
1,2-Dichlorobenzene	1.67	1.15		mg/kg		69	17 - 120	5	50
1,3-Dichlorobenzene	1.67	1.15		mg/kg		69	13 - 120	4	50
3,3-Dichlorobenzidine	1.67	1.40		mg/kg		84	54 - 120	7	35
2,4-Dichlorophenol	1.67	1.38		mg/kg		83	43 - 120	9	35
Diethyl phthalate	1.67	1.30		mg/kg		78	52 - 120	6	33
2,4-Dimethylphenol	1.67	1.42		mg/kg		85	47 - 120	9	50
Dimethyl phthalate	1.67	1.29		mg/kg		78	55 - 120	8	31
4,6-Dinitro-2-methylphenol	1.67	1.31		mg/kg		79	27 - 134	4	50
2,4-Dinitrophenol	1.67	1.16		mg/kg		69	15 - 145	14	50
2,6-Dinitrotoluene	1.67	1.34		mg/kg		80	56 - 120	8	34
2,4-Dinitrotoluene	1.67	1.26		mg/kg		76	55 - 122	9	31
Di-n-octyl phthalate	1.67	1.47		mg/kg		88	48 - 131	4	31
Bis(2-ethylhexyl)phthalate	1.67	1.52		mg/kg		91	51 - 127	9	32
Fluoranthene	1.67	1.33		mg/kg		80	58 - 120	6	35
Fluorene	1.67	1.28		mg/kg		77	54 - 120	6	37
Hexachlorobenzene	1.67	1.31		mg/kg		78	56 - 120	7	28
Hexachlorobutadiene	1.67	1.44		mg/kg		87	19 - 120	7	50
Hexachlorocyclopentadiene	1.67	1.06		mg/kg		64	11 - 120	3	50
Hexachloroethane	1.67	1.26		mg/kg		76	14 - 120	3	50
Indeno (1,2,3-cd) pyrene	1.67	1.35		mg/kg		81	50 - 122	7	32
Isophorone	1.67	1.28		mg/kg		77	43 - 120	7	36
2-Methylnaphthalene	1.67	1.28		mg/kg		77	36 - 120	7	50
2-Methylphenol	1.67	1.28		mg/kg		77	47 - 120	7	41
3/4-Methylphenol	1.67	1.30		mg/kg		78	53 - 135	8	39
Naphthalene	1.67	1.36		mg/kg		82	28 - 120	5	34
3-Nitroaniline	1.67	1.35		mg/kg		81	54 - 120	6	35
2-Nitroaniline	1.67	1.36		mg/kg		82	59 - 120	7	28
4-Nitroaniline	1.67	1.33		mg/kg		80	55 - 121	8	36
Nitrobenzene	1.67	1.19		mg/kg		72	30 - 120	3	44
4-Nitrophenol	1.67	1.34		mg/kg		80	44 - 133	6	47
2-Nitrophenol	1.67	1.41		mg/kg		84	36 - 120	7	43
N-Nitrosodiphenylamine	1.67	1.55		mg/kg		93	56 - 120	5	30

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3768-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3768 **Prep Batch: 11F3768_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
N-Nitrosodi-n-propylamine			1.67	1.33		mg/kg		80	45 - 120	6	41
Pentachlorophenol			1.67	1.54		mg/kg		92	42 - 135	8	32
Phenanthrene			1.67	1.34		mg/kg		81	56 - 120	6	32
Phenol			1.67	1.32		mg/kg		79	45 - 120	6	42
Pyrene			1.67	1.26		mg/kg		76	56 - 120	3	40
Pyridine			1.67	1.18		mg/kg		71	26 - 120	7	50
1,2,4-Trichlorobenzene			1.67	1.15		mg/kg		69	22 - 120	6	46
1-Methylnaphthalene			1.67	1.14		mg/kg		69	36 - 120	7	45
2,4,6-Trichlorophenol			1.67	1.35		mg/kg		81	50 - 120	5	34
2,4,5-Trichlorophenol			1.67	1.22		mg/kg		73	54 - 120	6	33

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
Terphenyl-d14	*78*		*18 - 120*
2,4,6-Tribromophenol	*65*		*19 - 120*
Phenol-d5	*68*		*18 - 120*
2-Fluorobiphenyl	*66*		*14 - 120*
2-Fluorophenol	*69*		*17 - 120*
Nitrobenzene-d5	*66*		*17 - 120*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Lab Sample ID: 11F2601-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010436 **Prep Batch: 11F2601_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		4.00		mg/kg		06/13/11 09:25	06/13/11 21:27	1.00
TPH - Oil Range	ND		4.00		mg/kg		06/13/11 09:25	06/13/11 21:27	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*53 - 140*	*06/13/11 09:25*	*06/13/11 21:27*	*1.00*

Lab Sample ID: 11F2601-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010436 **Prep Batch: 11F2601_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Diesel			40.0	37.5		mg/kg		94	65 - 127		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*82*		*53 - 140*

Lab Sample ID: 11F2601-MS1 **Client Sample ID: F-06 (4-6)**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010436 **Prep Batch: 11F2601_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Diesel	13.5		38.8	40.0		mg/kg		68	23 - 138		

Method: SW846 8015B - Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 11F2601-MS1 **Client Sample ID: F-06 (4-6)**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010436 **Prep Batch: 11F2601_P**

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
o-Terphenyl	*79*		*53 - 140*

Lab Sample ID: 11F2601-MSD1 **Client Sample ID: F-06 (4-6)**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010436 **Prep Batch: 11F2601_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diesel	13.5		39.7	48.6		mg/kg		89	23 - 138	20	40

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
o-Terphenyl	*73*		*53 - 140*

Lab Sample ID: 11F2602-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010332 **Prep Batch: 11F2602_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		4.00		mg/kg		06/10/11 13:45	06/11/11 17:23	1.00
TPH - Oil Range	ND		4.00		mg/kg		06/10/11 13:45	06/11/11 17:23	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*53 - 140*	*06/10/11 13:45*	*06/11/11 17:23*	*1.00*

Lab Sample ID: 11F2602-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010328 **Prep Batch: 11F2602_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Diesel			40.0	37.8		mg/kg		94	65 - 127		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*96*		*53 - 140*

Lab Sample ID: 11F2602-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010328 **Prep Batch: 11F2602_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Diesel	0.971		39.7	37.0		mg/kg		91	23 - 138		

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
o-Terphenyl	*83*		*53 - 140*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 11F2602-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010328 **Prep Batch: 11F2602_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diesel	0.971		39.4	38.0		mg/kg		94	23 - 138	3	40

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
o-Terphenyl	*98*		*53 - 140*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Lab Sample ID: 11F2578-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010364 **Prep Batch: 11F2578_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0333		mg/kg		06/11/11 07:20	06/13/11 17:16	1.00
PCB-1221	ND		0.0333		mg/kg		06/11/11 07:20	06/13/11 17:16	1.00
PCB-1232	ND		0.0333		mg/kg		06/11/11 07:20	06/13/11 17:16	1.00
PCB-1242	ND		0.0333		mg/kg		06/11/11 07:20	06/13/11 17:16	1.00
PCB-1248	ND		0.0333		mg/kg		06/11/11 07:20	06/13/11 17:16	1.00
PCB-1254	ND		0.0333		mg/kg		06/11/11 07:20	06/13/11 17:16	1.00
PCB-1260	ND		0.0333		mg/kg		06/11/11 07:20	06/13/11 17:16	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*76*		*19 - 147*	*06/11/11 07:20*	*06/13/11 17:16*	*1.00*
Decachlorobiphenyl	*120*		*20 - 150*	*06/11/11 07:20*	*06/13/11 17:16*	*1.00*

Lab Sample ID: 11F2578-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010364 **Prep Batch: 11F2578_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
PCB-1016	0.167	0.163		mg/kg		98	64 - 122
PCB-1260	0.167	0.170		mg/kg		102	56 - 150

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-meta-xylene	*96*		*19 - 147*
Decachlorobiphenyl	*120*		*20 - 150*

Lab Sample ID: 11F2578-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010364 **Prep Batch: 11F2578_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
PCB-1016	ND		0.165	0.136		mg/kg		83	20 - 175
PCB-1260	ND		0.165	0.146		mg/kg		89	51 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
Tetrachloro-meta-xylene	*62*		*19 - 147*
Decachlorobiphenyl	*98*		*20 - 150*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A (Continued)

Lab Sample ID: 11F2578-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010364 **Prep Batch: 11F2578_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
PCB-1016	ND		0.166	0.146		mg/kg		88	20 - 175	7	50
PCB-1260	ND		0.166	0.164		mg/kg		99	51 - 159	11	36

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Tetrachloro-meta-xylene	*84*		*19 - 147*
Decachlorobiphenyl	*116*		*20 - 150*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Lab Sample ID: 11F2613-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2613 **Prep Batch: 11F2613_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.952		mg/kg		06/10/11 10:06	06/10/11 19:34	1.00
Barium	ND		1.90		mg/kg		06/10/11 10:06	06/10/11 19:34	1.00
Cadmium	ND		0.952		mg/kg		06/10/11 10:06	06/10/11 19:34	1.00
Chromium	ND		0.952		mg/kg		06/10/11 10:06	06/10/11 19:34	1.00
Lead	ND		0.952		mg/kg		06/10/11 10:06	06/10/11 19:34	1.00
Selenium	ND		1.90		mg/kg		06/10/11 10:06	06/10/11 19:34	1.00
Silver	ND		0.952		mg/kg		06/10/11 10:06	06/10/11 19:34	1.00

Lab Sample ID: 11F2613-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2613 **Prep Batch: 11F2613_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	19.3	18.3		mg/kg		95	80 - 120
Barium	771	784		mg/kg		102	80 - 120
Cadmium	19.3	18.8		mg/kg		98	80 - 120
Chromium	77.1	74.0		mg/kg		96	80 - 120
Lead	19.3	19.6		mg/kg		102	80 - 120
Selenium	19.3	18.7		mg/kg		97	80 - 120
Silver	19.3	18.0		mg/kg		93	75 - 125

Lab Sample ID: 11F2613-MS1 **Client Sample ID: F-08 (2-3)**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2613 **Prep Batch: 11F2613_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	15.4		20.0	33.1		mg/kg		89	75 - 125
Barium	709		798	1310		mg/kg		76	75 - 125
Cadmium	28.9	M7	20.0	59.4	M7	mg/kg		153	75 - 125
Chromium	213	MHA	79.8	216	MHA	mg/kg		4	75 - 125
Lead	2000		20.0	2020		mg/kg		122	75 - 125
Selenium	ND		20.0	2.69	M8	mg/kg		14	75 - 125
Silver	2.40		20.0	20.2		mg/kg		89	75 - 125

Method: SW846 6010B - Total Metals by EPA Method 6010B (Continued)

Lab Sample ID: 11F2613-MSD1 **Client Sample ID: F-08 (2-3)**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2613 **Prep Batch: 11F2613_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	15.4		19.4	27.7	M8	mg/kg		63	75 - 125	18	20
Barium	709		777	1290		mg/kg		75	75 - 125	1	20
Cadmium	28.9	M7	19.4	54.5	M7	mg/kg		132	75 - 125	9	20
Chromium	213	MHA	77.7	189	MHA	mg/kg		-31	75 - 125	14	20
Lead	2000		19.4	2270	MHA	mg/kg		1400	75 - 125	12	20
Selenium	ND		19.4	7.40	M8 R3	mg/kg		38	75 - 125	93	20
Silver	2.40		19.4	20.4		mg/kg		93	75 - 125	1	20

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Lab Sample ID: 11F3143-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3143 **Prep Batch: 11F3143_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.098		mg/kg		06/13/11 12:40	06/14/11 10:58	1.0

Lab Sample ID: 11F3143-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3143 **Prep Batch: 11F3143_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.161	0.16		mg/kg		102	80 - 120

Lab Sample ID: 11F3143-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3143 **Prep Batch: 11F3143_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.165	0.16		mg/kg		96	80 - 120	3	20

Lab Sample ID: 11F3143-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3143 **Prep Batch: 11F3143_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	ND		0.165	0.18		mg/kg		108	75 - 125

Lab Sample ID: 11F3143-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3143 **Prep Batch: 11F3143_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	ND		0.164	0.16		mg/kg		100	75 - 125	8	20

QC Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1504

Method: SW-846 - General Chemistry Parameters

Lab Sample ID: 11F2644-DUP1 **Client Sample ID: F-01A (1-3)**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2644 **Prep Batch: 11F2644_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Dry Solids	88.2			89.0		%				0.9	20

Lab Sample ID: 11F2646-DUP1 **Client Sample ID: Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F2646 **Prep Batch: 11F2646_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Dry Solids	89.0			96.1		%				8	20

QC Association Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1504

GCMS Volatiles

Analysis Batch: U010399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2576-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11F2576_P
11F2576-BLK1	Method Blank	Total	Soil	SW846 8260B	11F2576_P
NUF1504-02	F-08 (3-4)	Total	Soil	SW846 8260B	11F2576_P
NUF1504-05	F-01A (9.5-10.5)	Total	Soil	SW846 8260B	11F2576_P
NUF1504-06	F-06 (1-2)	Total	Soil	SW846 8260B	11F2576_P
NUF1504-07	F-06 (4-6)	Total	Soil	SW846 8260B	11F2576_P
NUF1504-08	F-06 (8-9)	Total	Soil	SW846 8260B	11F2576_P
11F2576-MS1	F-07A (0-1)	Total	Soil	SW846 8260B	11F2576_P

Analysis Batch: U010583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2574-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11F2574_P
11F2574-BLK1	Method Blank	Total	Soil	SW846 8260B	11F2574_P
11F2574-BLK2	Method Blank	Total	Soil	SW846 8260B	11F2574_P
NUF1504-04 - RE2	F-01A (6-8)	Total	Soil	SW846 8260B	11F2574_P
NUF1504-09 - RE1	F-07A (0-1)	Total	Soil	SW846 8260B	11F2574_P
NUF1504-01 - RE1	F-08 (2-3)	Total	Soil	SW846 8260B	11F2574_P
11F2574-MS1	F-08 (2-3)	Total	Soil	SW846 8260B	11F2574_P
11F2574-MSD1	F-08 (2-3)	Total	Soil	SW846 8260B	11F2574_P

Analysis Batch: U010617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F1171-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11F1171_P
11F1171-BLK1	Method Blank	Total	Soil	SW846 8260B	11F1171_P
11F1171-BLK2	Method Blank	Total	Soil	SW846 8260B	11F1171_P
NUF1504-04 - RE1	F-01A (6-8)	Total	Soil	SW846 8260B	11F1171_P
11F1171-MS1	Matrix Spike	Total	Soil	SW846 8260B	11F1171_P
11F1171-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8260B	11F1171_P

Analysis Batch: U010630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4149-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11F4149_P
11F4149-BSD1	Lab Control Sample Dup	Total	Soil	SW846 8260B	11F4149_P
11F4149-BLK1	Method Blank	Total	Soil	SW846 8260B	11F4149_P
11F4149-BLK2	Method Blank	Total	Soil	SW846 8260B	11F4149_P
NUF1504-03 - RE3	F-01A (1-3)	Total	Soil	SW846 8260B	11F4149_P
NUF1504-03 - RE4	F-01A (1-3)	Total	Soil	SW846 8260B	11F4149_P

Prep Batch: 11F1171_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F1171-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11F1171-BLK1	Method Blank	Total	Soil	EPA 5035	
11F1171-BLK2	Method Blank	Total	Soil	EPA 5035	
NUF1504-04 - RE1	F-01A (6-8)	Total	Soil	EPA 5035	
11F1171-MS1	Matrix Spike	Total	Soil	EPA 5035	
11F1171-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 5035	

Prep Batch: 11F2574_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2574-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11F2574-BLK1	Method Blank	Total	Soil	EPA 5035	
11F2574-BLK2	Method Blank	Total	Soil	EPA 5035	

GCMS Volatiles (Continued)

Prep Batch: 11F2574_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUF1504-04 - RE2	F-01A (6-8)	Total	Soil	EPA 5035	
NUF1504-09 - RE1	F-07A (0-1)	Total	Soil	EPA 5035	
NUF1504-01 - RE1	F-08 (2-3)	Total	Soil	EPA 5035	
11F2574-MS1	F-08 (2-3)	Total	Soil	EPA 5035	
11F2574-MSD1	F-08 (2-3)	Total	Soil	EPA 5035	

Prep Batch: 11F2576_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2576-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11F2576-BLK1	Method Blank	Total	Soil	EPA 5035	
NUF1504-02	F-08 (3-4)	Total	Soil	EPA 5035	
NUF1504-05	F-01A (9.5-10.5)	Total	Soil	EPA 5035	
NUF1504-06	F-06 (1-2)	Total	Soil	EPA 5035	
NUF1504-07	F-06 (4-6)	Total	Soil	EPA 5035	
NUF1504-08	F-06 (8-9)	Total	Soil	EPA 5035	
11F2576-MS1	F-07A (0-1)	Total	Soil	EPA 5035	

Prep Batch: 11F4149_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4149-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11F4149-BSD1	Lab Control Sample Dup	Total	Soil	EPA 5035	
11F4149-BLK1	Method Blank	Total	Soil	EPA 5035	
11F4149-BLK2	Method Blank	Total	Soil	EPA 5035	
NUF1504-03 - RE3	F-01A (1-3)	Total	Soil	EPA 5035	
NUF1504-03 - RE4	F-01A (1-3)	Total	Soil	EPA 5035	

GCMS Semivolatiles

Analysis Batch: 11F2595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2595-BS1	Lab Control Sample	Total	Soil	SW846 8270D	11F2595_P
11F2595-BSD1	Lab Control Sample Dup	Total	Soil	SW846 8270D	11F2595_P
11F2595-BLK1	Method Blank	Total	Soil	SW846 8270D	11F2595_P
11F2595-MS1	Matrix Spike	Total	Soil	SW846 8270D	11F2595_P
11F2595-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8270D	11F2595_P
NUF1504-01	F-08 (2-3)	Total	Soil	SW846 8270D	11F2595_P
NUF1504-02	F-08 (3-4)	Total	Soil	SW846 8270D	11F2595_P
NUF1504-03	F-01A (1-3)	Total	Soil	SW846 8270D	11F2595_P
NUF1504-04	F-01A (6-8)	Total	Soil	SW846 8270D	11F2595_P
NUF1504-05	F-01A (9.5-10.5)	Total	Soil	SW846 8270D	11F2595_P
NUF1504-06	F-06 (1-2)	Total	Soil	SW846 8270D	11F2595_P
NUF1504-07	F-06 (4-6)	Total	Soil	SW846 8270D	11F2595_P
NUF1504-08	F-06 (8-9)	Total	Soil	SW846 8270D	11F2595_P
NUF1504-01 - RE1	F-08 (2-3)	Total	Soil	SW846 8270D	11F2595_P
NUF1504-03 - RE1	F-01A (1-3)	Total	Soil	SW846 8270D	11F2595_P

Analysis Batch: 11F3768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3768-BLK1	Method Blank	Total	Soil	SW846 8270D	11F3768_P
11F3768-BS1	Lab Control Sample	Total	Soil	SW846 8270D	11F3768_P
11F3768-BSD1	Lab Control Sample Dup	Total	Soil	SW846 8270D	11F3768_P
NUF1504-09 - RE1	F-07A (0-1)	Total	Soil	SW846 8270D	11F3768_P

GCMS Semivolatiles (Continued)

Prep Batch: 11F2595_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2595-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
11F2595-BSD1	Lab Control Sample Dup	Total	Soil	EPA 3550C	
11F2595-BLK1	Method Blank	Total	Soil	EPA 3550C	
11F2595-MS1	Matrix Spike	Total	Soil	EPA 3550C	
11F2595-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 3550C	
NUF1504-01	F-08 (2-3)	Total	Soil	EPA 3550C	
NUF1504-02	F-08 (3-4)	Total	Soil	EPA 3550C	
NUF1504-03	F-01A (1-3)	Total	Soil	EPA 3550C	
NUF1504-04	F-01A (6-8)	Total	Soil	EPA 3550C	
NUF1504-05	F-01A (9.5-10.5)	Total	Soil	EPA 3550C	
NUF1504-06	F-06 (1-2)	Total	Soil	EPA 3550C	
NUF1504-07	F-06 (4-6)	Total	Soil	EPA 3550C	
NUF1504-08	F-06 (8-9)	Total	Soil	EPA 3550C	
NUF1504-01 - RE1	F-08 (2-3)	Total	Soil	EPA 3550C	
NUF1504-03 - RE1	F-01A (1-3)	Total	Soil	EPA 3550C	

Prep Batch: 11F3768_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3768-BLK1	Method Blank	Total	Soil	EPA 3550C	
11F3768-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
11F3768-BSD1	Lab Control Sample Dup	Total	Soil	EPA 3550C	
NUF1504-09 - RE1	F-07A (0-1)	Total	Soil	EPA 3550C	

GC Semivolatiles

Analysis Batch: U010328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2602-BS1	Lab Control Sample	Total	Soil	SW846 8015B	11F2602_P
11F2602-MS1	Matrix Spike	Total	Soil	SW846 8015B	11F2602_P
11F2602-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8015B	11F2602_P
NUF1504-02	F-08 (3-4)	Total	Soil	SW846 8015B	11F2602_P
NUF1504-05	F-01A (9.5-10.5)	Total	Soil	SW846 8015B	11F2602_P
NUF1504-03	F-01A (1-3)	Total	Soil	SW846 8015B	11F2602_P

Analysis Batch: U010332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2602-BLK1	Method Blank	Total	Soil	SW846 8015B	11F2602_P
NUF1504-06 - RE1	F-06 (1-2)	Total	Soil	SW846 8015B	11F2602_P
NUF1504-01 - RE1	F-08 (2-3)	Total	Soil	SW846 8015B	11F2602_P
NUF1504-03 - RE1	F-01A (1-3)	Total	Soil	SW846 8015B	11F2602_P

Analysis Batch: U010436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUF1504-04	F-01A (6-8)	Total	Soil	SW846 8015B	11F2602_P
11F2601-BLK1	Method Blank	Total	Soil	SW846 8015B	11F2601_P
11F2601-BS1	Lab Control Sample	Total	Soil	SW846 8015B	11F2601_P
11F2601-MS1	F-06 (4-6)	Total	Soil	SW846 8015B	11F2601_P
11F2601-MSD1	F-06 (4-6)	Total	Soil	SW846 8015B	11F2601_P
NUF1504-07	F-06 (4-6)	Total	Soil	SW846 8015B	11F2601_P
NUF1504-08	F-06 (8-9)	Total	Soil	SW846 8015B	11F2601_P
NUF1504-09	F-07A (0-1)	Total	Soil	SW846 8015B	11F2601_P

GC Semivolatiles (Continued)

Prep Batch: 11F2601_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2601-BLK1	Method Blank	Total	Soil	EPA 3550B	
11F2601-BS1	Lab Control Sample	Total	Soil	EPA 3550B	
11F2601-MS1	F-06 (4-6)	Total	Soil	EPA 3550B	
11F2601-MSD1	F-06 (4-6)	Total	Soil	EPA 3550B	
NUF1504-07	F-06 (4-6)	Total	Soil	EPA 3550B	
NUF1504-08	F-06 (8-9)	Total	Soil	EPA 3550B	
NUF1504-09	F-07A (0-1)	Total	Soil	EPA 3550B	

Prep Batch: 11F2602_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2602-BS1	Lab Control Sample	Total	Soil	EPA 3550B	
11F2602-MS1	Matrix Spike	Total	Soil	EPA 3550B	
11F2602-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 3550B	
NUF1504-02	F-08 (3-4)	Total	Soil	EPA 3550B	
NUF1504-05	F-01A (9.5-10.5)	Total	Soil	EPA 3550B	
NUF1504-03	F-01A (1-3)	Total	Soil	EPA 3550B	
11F2602-BLK1	Method Blank	Total	Soil	EPA 3550B	
NUF1504-06 - RE1	F-06 (1-2)	Total	Soil	EPA 3550B	
NUF1504-01 - RE1	F-08 (2-3)	Total	Soil	EPA 3550B	
NUF1504-03 - RE1	F-01A (1-3)	Total	Soil	EPA 3550B	
NUF1504-04	F-01A (6-8)	Total	Soil	EPA 3550B	

Pesticides

Analysis Batch: U010364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2578-BLK1	Method Blank	Total	Soil	SW846 8082A	11F2578_P
11F2578-BS1	Lab Control Sample	Total	Soil	SW846 8082A	11F2578_P
11F2578-MS1	Matrix Spike	Total	Soil	SW846 8082A	11F2578_P
11F2578-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8082A	11F2578_P
NUF1504-02	F-08 (3-4)	Total	Soil	SW846 8082A	11F2578_P
NUF1504-04	F-01A (6-8)	Total	Soil	SW846 8082A	11F2578_P
NUF1504-05	F-01A (9.5-10.5)	Total	Soil	SW846 8082A	11F2578_P
NUF1504-06	F-06 (1-2)	Total	Soil	SW846 8082A	11F2578_P
NUF1504-07	F-06 (4-6)	Total	Soil	SW846 8082A	11F2578_P
NUF1504-08	F-06 (8-9)	Total	Soil	SW846 8082A	11F2578_P
NUF1504-09	F-07A (0-1)	Total	Soil	SW846 8082A	11F2578_P

Analysis Batch: U010417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUF1504-01 - RE1	F-08 (2-3)	Total	Soil	SW846 8082A	11F2578_P
NUF1504-03 - RE1	F-01A (1-3)	Total	Soil	SW846 8082A	11F2578_P

Prep Batch: 11F2578_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2578-BLK1	Method Blank	Total	Soil	EPA 3550C/3665A	
11F2578-BS1	Lab Control Sample	Total	Soil	EPA 3550C/3665A	
11F2578-MS1	Matrix Spike	Total	Soil	EPA 3550C/3665A	
11F2578-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 3550C/3665A	

Pesticides (Continued)

Prep Batch: 11F2578_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUF1504-02	F-08 (3-4)	Total	Soil	EPA 3550C/3665A	
NUF1504-04	F-01A (6-8)	Total	Soil	EPA 3550C/3665A	
NUF1504-05	F-01A (9.5-10.5)	Total	Soil	EPA 3550C/3665A	
NUF1504-06	F-06 (1-2)	Total	Soil	EPA 3550C/3665A	
NUF1504-07	F-06 (4-6)	Total	Soil	EPA 3550C/3665A	
NUF1504-08	F-06 (8-9)	Total	Soil	EPA 3550C/3665A	
NUF1504-09	F-07A (0-1)	Total	Soil	EPA 3550C/3665A	
NUF1504-01 - RE1	F-08 (2-3)	Total	Soil	EPA 3550C/3665A	
NUF1504-03 - RE1	F-01A (1-3)	Total	Soil	EPA 3550C/3665A	

Metals

Analysis Batch: 11F2613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2613-BLK1	Method Blank	Total	Soil	SW846 6010B	11F2613_P
11F2613-BS1	Lab Control Sample	Total	Soil	SW846 6010B	11F2613_P
11F2613-MS1	F-08 (2-3)	Total	Soil	SW846 6010B	11F2613_P
11F2613-MSD1	F-08 (2-3)	Total	Soil	SW846 6010B	11F2613_P
NUF1504-02	F-08 (3-4)	Total	Soil	SW846 6010B	11F2613_P
NUF1504-04	F-01A (6-8)	Total	Soil	SW846 6010B	11F2613_P
NUF1504-05	F-01A (9.5-10.5)	Total	Soil	SW846 6010B	11F2613_P
NUF1504-06	F-06 (1-2)	Total	Soil	SW846 6010B	11F2613_P
NUF1504-07	F-06 (4-6)	Total	Soil	SW846 6010B	11F2613_P
NUF1504-08	F-06 (8-9)	Total	Soil	SW846 6010B	11F2613_P
NUF1504-09	F-07A (0-1)	Total	Soil	SW846 6010B	11F2613_P
NUF1504-01	F-08 (2-3)	Total	Soil	SW846 6010B	11F2613_P
NUF1504-03	F-01A (1-3)	Total	Soil	SW846 6010B	11F2613_P

Analysis Batch: 11F3143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3143-BLK1	Method Blank	Total	Soil	SW846 7471A	11F3143_P
11F3143-BS1	Lab Control Sample	Total	Soil	SW846 7471A	11F3143_P
11F3143-BSD1	Lab Control Sample Dup	Total	Soil	SW846 7471A	11F3143_P
11F3143-MS1	Matrix Spike	Total	Soil	SW846 7471A	11F3143_P
11F3143-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 7471A	11F3143_P
NUF1504-01	F-08 (2-3)	Total	Soil	SW846 7471A	11F3143_P
NUF1504-02	F-08 (3-4)	Total	Soil	SW846 7471A	11F3143_P
NUF1504-03	F-01A (1-3)	Total	Soil	SW846 7471A	11F3143_P
NUF1504-04	F-01A (6-8)	Total	Soil	SW846 7471A	11F3143_P
NUF1504-05	F-01A (9.5-10.5)	Total	Soil	SW846 7471A	11F3143_P
NUF1504-06	F-06 (1-2)	Total	Soil	SW846 7471A	11F3143_P
NUF1504-07	F-06 (4-6)	Total	Soil	SW846 7471A	11F3143_P
NUF1504-08	F-06 (8-9)	Total	Soil	SW846 7471A	11F3143_P
NUF1504-09	F-07A (0-1)	Total	Soil	SW846 7471A	11F3143_P

Metals (Continued)

Prep Batch: 11F2613_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2613-BLK1	Method Blank	Total	Soil	EPA 3051A/6010	
11F2613-BS1	Lab Control Sample	Total	Soil	EPA 3051A/6010	
11F2613-MS1	F-08 (2-3)	Total	Soil	EPA 3051A/6010	
11F2613-MSD1	F-08 (2-3)	Total	Soil	EPA 3051A/6010	
NUF1504-02	F-08 (3-4)	Total	Soil	EPA 3051A/6010	
NUF1504-04	F-01A (6-8)	Total	Soil	EPA 3051A/6010	
NUF1504-05	F-01A (9.5-10.5)	Total	Soil	EPA 3051A/6010	
NUF1504-06	F-06 (1-2)	Total	Soil	EPA 3051A/6010	
NUF1504-07	F-06 (4-6)	Total	Soil	EPA 3051A/6010	
NUF1504-08	F-06 (8-9)	Total	Soil	EPA 3051A/6010	
NUF1504-09	F-07A (0-1)	Total	Soil	EPA 3051A/6010	
NUF1504-01	F-08 (2-3)	Total	Soil	EPA 3051A/6010	
NUF1504-03	F-01A (1-3)	Total	Soil	EPA 3051A/6010	

Prep Batch: 11F3143_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3143-BLK1	Method Blank	Total	Soil	EPA 7471	
11F3143-BS1	Lab Control Sample	Total	Soil	EPA 7471	
11F3143-BSD1	Lab Control Sample Dup	Total	Soil	EPA 7471	
11F3143-MS1	Matrix Spike	Total	Soil	EPA 7471	
11F3143-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 7471	
NUF1504-01	F-08 (2-3)	Total	Soil	EPA 7471	
NUF1504-02	F-08 (3-4)	Total	Soil	EPA 7471	
NUF1504-03	F-01A (1-3)	Total	Soil	EPA 7471	
NUF1504-04	F-01A (6-8)	Total	Soil	EPA 7471	
NUF1504-05	F-01A (9.5-10.5)	Total	Soil	EPA 7471	
NUF1504-06	F-06 (1-2)	Total	Soil	EPA 7471	
NUF1504-07	F-06 (4-6)	Total	Soil	EPA 7471	
NUF1504-08	F-06 (8-9)	Total	Soil	EPA 7471	
NUF1504-09	F-07A (0-1)	Total	Soil	EPA 7471	

Extractions

Analysis Batch: 11F2644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2644-DUP1	F-01A (1-3)	Total	Soil	SW-846	11F2644_P
NUF1504-03	F-01A (1-3)	Total	Soil	SW-846	11F2644_P
NUF1504-04	F-01A (6-8)	Total	Soil	SW-846	11F2644_P
NUF1504-05	F-01A (9.5-10.5)	Total	Soil	SW-846	11F2644_P
NUF1504-06	F-06 (1-2)	Total	Soil	SW-846	11F2644_P
NUF1504-07	F-06 (4-6)	Total	Soil	SW-846	11F2644_P
NUF1504-08	F-06 (8-9)	Total	Soil	SW-846	11F2644_P
NUF1504-09	F-07A (0-1)	Total	Soil	SW-846	11F2644_P

Extractions (Continued)

Analysis Batch: 11F2646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2646-DUP1	Duplicate	Total	Soil	SW-846	11F2646_P
NUF1504-01	F-08 (2-3)	Total	Soil	SW-846	11F2646_P
NUF1504-02	F-08 (3-4)	Total	Soil	SW-846	11F2646_P

Prep Batch: 11F2644_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2644-DUP1	F-01A (1-3)	Total	Soil	% Solids	
NUF1504-03	F-01A (1-3)	Total	Soil	% Solids	
NUF1504-04	F-01A (6-8)	Total	Soil	% Solids	
NUF1504-05	F-01A (9.5-10.5)	Total	Soil	% Solids	
NUF1504-06	F-06 (1-2)	Total	Soil	% Solids	
NUF1504-07	F-06 (4-6)	Total	Soil	% Solids	
NUF1504-08	F-06 (8-9)	Total	Soil	% Solids	
NUF1504-09	F-07A (0-1)	Total	Soil	% Solids	

Prep Batch: 11F2646_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2646-DUP1	Duplicate	Total	Soil	% Solids	
NUF1504-01	F-08 (2-3)	Total	Soil	% Solids	
NUF1504-02	F-08 (3-4)	Total	Soil	% Solids	

Analysis Batch: U010399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUF1504-09	F-07A (0-1)	Total	Soil	SW846 8260B	

Client Sample ID: F-08 (2-3)

Lab Sample ID: NUF1504-01
Date Collected: 06/07/11 10:00
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035	RE1	0.873	11F2574_P	06/10/11 12:08	AAN	TAL NSH
Total	Analysis	SW846 8260B	RE1	50.0	U010583	06/15/11 22:01	MJH/H	TAL NSH
Total	Prep	EPA 3550C		1.99	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/13/11 23:52	KJP	TAL NSH
Total	Prep	EPA 3550C	RE1	1.99	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D	RE1	2.00	11F2595	06/14/11 15:15	KJP	TAL NSH
Total	Prep	EPA 3550B	RE1	0.987	11F2602_P	06/10/11 13:45	JJR	TAL NSH
Total	Analysis	SW846 8015B	RE1	50.0	U010332	06/11/11 19:17	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A	RE1	0.973	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A	RE1	10.0	U010417	06/15/11 05:11	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.998	11F2613_P	06/10/11 10:06	RSO	TAL NSH
Total	Analysis	SW846 6010B		10.0	11F2613	06/13/11 10:17	LTB	TAL NSH
Total	Prep	EPA 7471		0.97	11F3143_P	06/13/11 12:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3143	06/14/11 11:42	MB	TAL NSH
Total	Prep	% Solids		1.00	11F2646_P	06/10/11 14:26	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11F2646	06/13/11 08:29	RRS	TAL NSH

Client Sample ID: F-08 (3-4)

Lab Sample ID: NUF1504-02
Date Collected: 06/07/11 09:45
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.914	11F2576_P	06/10/11 12:10	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010399	06/10/11 22:38	KXC	TAL NSH
Total	Prep	EPA 3550C		0.988	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/14/11 00:13	KJP	TAL NSH
Total	Prep	EPA 3550B		0.982	11F2602_P	06/10/11 13:45	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010328	06/11/11 12:00	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.977	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010364	06/13/11 19:48	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		1.01	11F2613_P	06/10/11 10:06	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F2613	06/10/11 20:02	LTB	TAL NSH
Total	Prep	EPA 7471		0.96	11F3143_P	06/13/11 12:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3143	06/14/11 11:44	MB	TAL NSH
Total	Prep	% Solids		1.00	11F2646_P	06/10/11 14:26	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11F2646	06/13/11 08:29	RRS	TAL NSH

Client Sample ID: F-01A (1-3)

Lab Sample ID: NUF1504-03
Date Collected: 06/07/11 10:00
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035	RE3	0.980	11F4149_P	06/16/11 11:57	AAN	TAL NSH
Total	Analysis	SW846 8260B	RE3	1.00	U010630	06/16/11 13:22	MJH/H	TAL NSH
Total	Prep	EPA 5035	RE4	0.842	11F4149_P	06/10/11 12:12	AAN	TAL NSH

Client Sample ID: F-01A (1-3)

Lab Sample ID: NUF1504-03
Date Collected: 06/07/11 10:00
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Analysis	SW846 8260B	RE4	50.0	U010630	06/16/11 13:50	MJH/H	TAL NSH
Total	Prep	EPA 3550C		1.97	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/14/11 00:34	KJP	TAL NSH
Total	Prep	EPA 3550C	RE1	1.97	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D	RE1	2.00	11F2595	06/14/11 17:21	KJP	TAL NSH
Total	Prep	EPA 3550B		0.977	11F2602_P	06/10/11 13:45	JJR	TAL NSH
Total	Analysis	SW846 8015B		10.0	U010328	06/11/11 13:53	GMH	TAL NSH
Total	Prep	EPA 3550B	RE1	0.977	11F2602_P	06/10/11 13:45	JJR	TAL NSH
Total	Analysis	SW846 8015B	RE1	20.0	U010332	06/11/11 19:33	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A	RE1	0.983	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A	RE1	5.00	U010417	06/15/11 05:32	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.994	11F2613_P	06/10/11 10:06	RSO	TAL NSH
Total	Analysis	SW846 6010B		10.0	11F2613	06/13/11 10:20	LTB	TAL NSH
Total	Prep	EPA 7471		0.96	11F3143_P	06/13/11 12:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3143	06/14/11 11:47	MB	TAL NSH
Total	Prep	% Solids		1.00	11F2644_P	06/10/11 14:26	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11F2644	06/13/11 08:22	RRS	TAL NSH

Client Sample ID: F-01A (6-8)

Lab Sample ID: NUF1504-04
Date Collected: 06/07/11 10:20
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035	RE1	0.885	11F1171_P	06/10/11 12:13	AAN	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U010617	06/16/11 04:29	MJH/H	TAL NSH
Total	Prep	EPA 5035	RE2	0.882	11F2574_P	06/10/11 12:13	AAN	TAL NSH
Total	Analysis	SW846 8260B	RE2	50.0	U010583	06/15/11 20:37	MJH/H	TAL NSH
Total	Prep	EPA 3550C		4.88	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/14/11 00:55	KJP	TAL NSH
Total	Prep	EPA 3550B		0.995	11F2602_P	06/10/11 13:45	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010436	06/13/11 15:15	KKH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.970	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		10.0	U010364	06/13/11 20:31	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.980	11F2613_P	06/10/11 10:06	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F2613	06/10/11 20:08	LTB	TAL NSH
Total	Prep	EPA 7471		0.96	11F3143_P	06/13/11 12:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3143	06/14/11 11:49	MB	TAL NSH
Total	Prep	% Solids		1.00	11F2644_P	06/10/11 14:26	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11F2644	06/13/11 08:22	RRS	TAL NSH

Client Sample ID: F-01A (9.5-10.5)

Lab Sample ID: NUF1504-05

Date Collected: 06/07/11 10:30
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.954	11F2576_P	06/10/11 12:15	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010399	06/11/11 00:12	KXC	TAL NSH
Total	Prep	EPA 3550C		0.973	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/14/11 01:15	KJP	TAL NSH
Total	Prep	EPA 3550B		0.980	11F2602_P	06/10/11 13:45	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010328	06/11/11 12:33	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.977	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010364	06/13/11 21:58	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.988	11F2613_P	06/10/11 10:06	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F2613	06/10/11 20:11	LTB	TAL NSH
Total	Prep	EPA 7471		0.97	11F3143_P	06/13/11 12:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3143	06/14/11 11:58	MB	TAL NSH
Total	Prep	% Solids		1.00	11F2644_P	06/10/11 14:26	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11F2644	06/13/11 08:22	RRS	TAL NSH

Client Sample ID: F-06 (1-2)

Lab Sample ID: NUF1504-06

Date Collected: 06/07/11 14:30
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.914	11F2576_P	06/10/11 12:18	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010399	06/11/11 00:43	KXC	TAL NSH
Total	Prep	EPA 3550C		0.993	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/14/11 01:36	KJP	TAL NSH
Total	Prep	EPA 3550B	RE1	0.978	11F2602_P	06/10/11 13:45	JJR	TAL NSH
Total	Analysis	SW846 8015B	RE1	20.0	U010332	06/11/11 19:01	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.980	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010364	06/13/11 22:19	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.998	11F2613_P	06/10/11 10:06	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F2613	06/10/11 20:14	LTB	TAL NSH
Total	Prep	EPA 7471		0.96	11F3143_P	06/13/11 12:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3143	06/14/11 12:00	MB	TAL NSH
Total	Prep	% Solids		1.00	11F2644_P	06/10/11 14:26	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11F2644	06/13/11 08:22	RRS	TAL NSH

Client Sample ID: F-06 (4-6)

Lab Sample ID: NUF1504-07

Date Collected: 06/07/11 14:35
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 82

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.852	11F2576_P	06/10/11 12:20	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010399	06/11/11 01:14	KXC	TAL NSH
Total	Prep	EPA 3550C		0.977	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/14/11 01:57	KJP	TAL NSH
Total	Prep	EPA 3550B		0.988	11F2601_P	06/13/11 09:25	JJR	TAL NSH

Client Sample ID: F-06 (4-6)

Lab Sample ID: NUF1504-07
Date Collected: 06/07/11 14:35
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 82

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Analysis	SW846 8015B		1.00	U010436	06/13/11 22:32	KKH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.973	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010364	06/13/11 22:41	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.998	11F2613_P	06/10/11 10:06	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F2613	06/10/11 20:17	LTB	TAL NSH
Total	Prep	EPA 7471		0.96	11F3143_P	06/13/11 12:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3143	06/14/11 12:02	MB	TAL NSH
Total	Prep	% Solids		1.00	11F2644_P	06/10/11 14:26	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11F2644	06/13/11 08:22	RRS	TAL NSH

Client Sample ID: F-06 (8-9)

Lab Sample ID: NUF1504-08
Date Collected: 06/07/11 14:50
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.899	11F2576_P	06/10/11 12:25	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010399	06/11/11 01:46	KXC	TAL NSH
Total	Prep	EPA 3550C		0.976	11F2595_P	06/11/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F2595	06/14/11 02:18	KJP	TAL NSH
Total	Prep	EPA 3550B		0.966	11F2601_P	06/13/11 09:25	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010436	06/13/11 22:49	KKH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.989	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010364	06/13/11 23:02	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.992	11F2613_P	06/10/11 10:06	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F2613	06/10/11 20:20	LTB	TAL NSH
Total	Prep	EPA 7471		1.0	11F3143_P	06/13/11 12:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3143	06/14/11 12:05	MB	TAL NSH
Total	Prep	% Solids		1.00	11F2644_P	06/10/11 14:26	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11F2644	06/13/11 08:22	RRS	TAL NSH

Client Sample ID: F-07A (0-1)

Lab Sample ID: NUF1504-09
Date Collected: 06/07/11 12:30
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 70

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035	RE1	0.969	11F2574_P	06/10/11 12:30	AAN	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U010583	06/15/11 21:05	MJH/H	TAL NSH
Total	Prep	EPA 3550C	RE1	0.997	11F3768_P	06/15/11 13:05	JJR	TAL NSH
Total	Analysis	SW846 8270D	RE1	1.00	11F3768	06/16/11 12:13	KJP	TAL NSH
Total	Prep	EPA 3550B		1.97	11F2601_P	06/13/11 09:25	JJR	TAL NSH
Total	Analysis	SW846 8015B		5.00	U010436	06/14/11 02:03	KKH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.975	11F2578_P	06/11/11 07:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010364	06/13/11 23:24	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.990	11F2613_P	06/10/11 10:06	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F2613	06/10/11 20:34	LTB	TAL NSH

Lab Chronicle

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1504

Client Sample ID: F-07A (0-1)

Date Collected: 06/07/11 12:30
Date Received: 06/09/11 08:55

Lab Sample ID: NUF1504-09

Matrix: Soil
Percent Solids: 70

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.98	11F3143_P	06/13/11 12:40	MB	TAL NSH
Total	Analysis	SW846 7471A		2.0	11F3143	06/14/11 15:59	MB	TAL NSH
Total	Prep	% Solids		1.00	11F2644_P	06/10/11 14:26	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11F2644	06/13/11 08:22	RRS	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010399	06/13/11 09:51		TAL NSH

Laboratory References:
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1504

Method	Method Description	Protocol	Laboratory
SW-846	General Chemistry Parameters		TAL NSH
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
SW846 8270D	Semivolatile Organic Compounds by EPA Method 8270D		TAL NSH
SW846 8015B	Extractable Petroleum Hydrocarbons		TAL NSH
SW846 8082A	Polychlorinated Biphenyls by EPA Method 8082A		TAL NSH
SW846 6010B	Total Metals by EPA Method 6010B		TAL NSH
SW846 7471A	Mercury by EPA Methods 7470A/7471A		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1504

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025	0	0453.07
TestAmerica Nashville	A2LA	WY UST	0	453.07
TestAmerica Nashville	AIHA	AIHA	0	100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA	0	3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA	0	S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECE

NUF1504

Cooler Received/Opened On_06/09/11 @ 08:55

1. Tracking #_____(last 4 digits, FedEx)

Courier: ___FED-EX IR-GUN-97310166

2. Temperature of rep. sample or temp blank when opened: 5.6 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES ...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where:_____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

   16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 9/6/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404
',"Reg District (CA)")

Client: PSC Industrial Outsourcing LP (3797)
Address: 210 West Sand Bank Rd.
City, State, Zip: Columbia IL 62236
Client Invoice Contact: Al Becker
Client Project Mgr: Al Becker
Client Telephone#: (618) 281-1550 Fax: (618) 281-7020
Sampler Name (Print) John Carrow
SamplerSignature: John Carrow

TA Account #: 3797 PO #:
Invoice to: PSC Industrial Outsourcing LP (3797)
Report to: Al Becker
Project Name: Festus, Missouri
Facility ID: [none]
Reg District (CA):
Site Address: 9th and Delmar
City,State,Zip: Festus Missouri

NUF1504
06/20/11 23:59

	Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: 8082A PCBs	8260B Volatile Organics	8270D Semivolatile Organics	Metals, RCRA Solid ICP 6010B	Metals, RCRA Water ICP 6010B	Metals, TCLP 6010B	TCLP Extraction Metals	TCLP Standard Extraction	TPH - Diesel Range/Oil Range SW8	TPH-Gasoline Range SW8015							RUSH TAT (Pre Schedule)*
1	F-08 (2-3)	6/7/11	1000	2	X										X					X		X	X	X	X					X								
2	F-08 (3-4)		945	2	X										X					X		X	X	X	X					X								
3	F-01A (1-3)		1000	3	X										X					X		X	X	X	X					X								
4	F-01A (6-8)		1020	2	X										X					X		X	X	X	X					X								
5	F-01A (9.5-10.5)		1030	2	X										X					X		X	X	X	X					X								
6	F-06 (1-2)		1430	3	X										X					X		X	X	X	X					X								
7	F-06 (4-6)		1435	2	X										X					X		X	X	X	X					X								
8	F-06 (8-9)		1450	2	X										X					X		X	X	X	X					X								
9	F-07A (0-1)	↓	1230	3	X										X					X		X	X	X	X					X								
																														X								

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.
* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.
There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES/SPECIAL INSTRUCTIONS: BO # 25017
Contact John Carrow for any questions
618-792-2468
J.Carrow@pslnow.com

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
[signature]	6-8-11	1645						
Shipped Via:			Shipped Via:					
Received for TestAmerica by:	Date:	Time:	Temperature Upon Receipt:	Sample Containers Intact? Y N VOCs Free of Headspace? Y N				

QC Deliverables (Please Circle One) :
Level 2 Level 3 Level 4 Site Specific
(If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)

Date Due of Report:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUF1681
Client Project/Site: [none]
Client Project Description: Festus, Missouri

For:
PSC Industrial Outsourcing LP (3797)
210 West Sand Bank Rd.
Columbia, IL 62236

Attn: Al Becker

Madonna Myers

Authorized for release by:
06/20/2011 08:18:32 AM

Madonna Myers
Project Manager
madonna.myers@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Sample Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1681

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUF1681-01	S W D G	Water	06/08/11 15:00	06/09/11 08:55
NUF1681-02	F-UG	Water	06/08/11 09:00	06/09/11 08:55
NUF1681-03	F-07	Water	06/08/11 11:00	06/09/11 08:55

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
R2	The RPD exceeded the acceptance limit.

GCMS Semivolatiles

Qualifier	Qualifier Description
B	Analyte was detected in the associated Method Blank.
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

GC Semivolatiles

Qualifier	Qualifier Description
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

Pesticides

Qualifier	Qualifier Description
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1681

Client Sample ID: S W D G

Lab Sample ID: NUF1681-01

Date Collected: 06/08/11 15:00
Matrix: Water
Date Received: 06/09/11 08:55

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Benzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Bromobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Bromochloromethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Bromodichloromethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Bromoform	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Bromomethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
2-Butanone	ND		50.0		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
sec-Butylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
n-Butylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
tert-Butylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Carbon disulfide	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Carbon Tetrachloride	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Chlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Chlorodibromomethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Chloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Chloroform	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Chloromethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
2-Chlorotoluene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
4-Chlorotoluene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Dibromomethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,1-Dichloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,2-Dichloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,1-Dichloroethene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,3-Dichloropropane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,2-Dichloropropane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
2,2-Dichloropropane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,1-Dichloropropene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Ethylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Hexachlorobutadiene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
2-Hexanone	ND		50.0		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Isopropylbenzene	ND	L	1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
p-Isopropyltoluene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Methylene Chloride	ND		5.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Naphthalene	ND		5.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
n-Propylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Styrene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00

Client Sample ID: S W D G — Lab Sample ID: NUF1681-01

Date Collected: 06/08/11 15:00 **Matrix: Water**
Date Received: 06/09/11 08:55

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Tetrachloroethene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Toluene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Trichloroethene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Trichlorofluoromethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Vinyl chloride	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00
Xylenes, total	ND		3.00		ug/L		06/13/11 09:51	06/13/11 17:23	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*94*		*63 - 140*	*06/13/11 09:51*	*06/13/11 17:23*	*1.00*
Dibromofluoromethane	*98*		*73 - 131*	*06/13/11 09:51*	*06/13/11 17:23*	*1.00*
Toluene-d8	*98*		*80 - 120*	*06/13/11 09:51*	*06/13/11 17:23*	*1.00*
4-Bromofluorobenzene	*103*		*79 - 125*	*06/13/11 09:51*	*06/13/11 17:23*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Acenaphthylene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Anthracene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Benzo (a) anthracene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Benzo (a) pyrene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Benzo (b) fluoranthene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Benzo (g,h,i) perylene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Benzo (k) fluoranthene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
4-Bromophenyl phenyl ether	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Butyl benzyl phthalate	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Carbazole	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
4-Chloro-3-methylphenol	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
4-Chloroaniline	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Bis(2-chloroethoxy)methane	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Bis(2-chloroethyl)ether	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Bis(2-chloroisopropyl)ether	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
2-Chloronaphthalene	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
2-Chlorophenol	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
4-Chlorophenyl phenyl ether	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Chrysene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Dibenz (a,h) anthracene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Dibenzofuran	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Di-n-butyl phthalate	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
1,4-Dichlorobenzene	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
1,2-Dichlorobenzene	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
1,3-Dichlorobenzene	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
3,3-Dichlorobenzidine	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
2,4-Dichlorophenol	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00

Client Sample ID: S W D G — Lab Sample ID: NUF1681-01

Date Collected: 06/08/11 15:00 **Matrix: Water**
Date Received: 06/09/11 08:55

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
2,4-Dimethylphenol	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Dimethyl phthalate	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
4,6-Dinitro-2-methylphenol	ND		25.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
2,4-Dinitrophenol	ND		25.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
2,6-Dinitrotoluene	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
2,4-Dinitrotoluene	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Di-n-octyl phthalate	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Bis(2-ethylhexyl)phthalate	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Fluoranthene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Fluorene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Hexachlorobenzene	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Hexachlorobutadiene	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Hexachlorocyclopentadiene	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Hexachloroethane	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Indeno (1,2,3-cd) pyrene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Isophorone	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
2-Methylnaphthalene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
2-Methylphenol	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
3/4-Methylphenol	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Naphthalene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
3-Nitroaniline	ND		25.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
2-Nitroaniline	ND		25.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
4-Nitroaniline	ND		25.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Nitrobenzene	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
4-Nitrophenol	ND		25.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
2-Nitrophenol	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
N-Nitrosodiphenylamine	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
N-Nitrosodi-n-propylamine	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Pentachlorophenol	ND		25.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Phenanthrene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Phenol	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
Pyrene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
1,2,4-Trichlorobenzene	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
1-Methylnaphthalene	ND		2.00		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
2,4,6-Trichlorophenol	ND		10.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00
2,4,5-Trichlorophenol	ND		25.0		ug/L		06/12/11 13:30	06/14/11 22:07	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*67*		*13 - 120*	*06/12/11 13:30*	*06/14/11 22:07*	*1.00*
2,4,6-Tribromophenol	*72*		*29 - 132*	*06/12/11 13:30*	*06/14/11 22:07*	*1.00*
Phenol-d5	*22*		*10 - 120*	*06/12/11 13:30*	*06/14/11 22:07*	*1.00*
2-Fluorobiphenyl	*63*		*29 - 120*	*06/12/11 13:30*	*06/14/11 22:07*	*1.00*
2-Fluorophenol	*32*		*10 - 120*	*06/12/11 13:30*	*06/14/11 22:07*	*1.00*
Nitrobenzene-d5	*61*		*27 - 120*	*06/12/11 13:30*	*06/14/11 22:07*	*1.00*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		100		ug/L		06/14/11 16:06	06/15/11 00:39	1.00

Client Sample ID: S W D G — Lab Sample ID: NUF1681-01

Date Collected: 06/08/11 15:00 **Matrix: Water**
Date Received: 06/09/11 08:55

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*103*		*60 - 150*	*06/14/11 16:06*	*06/15/11 00:39*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**295**		96.2		ug/L		06/13/11 09:40	06/13/11 20:39	1.00
TPH - Oil Range	**249**		96.2		ug/L		06/13/11 09:40	06/13/11 20:39	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*53 - 140*	*06/13/11 09:40*	*06/13/11 20:39*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.485		ug/L		06/13/11 09:40	06/13/11 18:58	1.00
PCB-1221	ND		0.485		ug/L		06/13/11 09:40	06/13/11 18:58	1.00
PCB-1232	ND		0.485		ug/L		06/13/11 09:40	06/13/11 18:58	1.00
PCB-1242	ND		0.485		ug/L		06/13/11 09:40	06/13/11 18:58	1.00
PCB-1248	ND		0.485		ug/L		06/13/11 09:40	06/13/11 18:58	1.00
PCB-1254	ND		0.485		ug/L		06/13/11 09:40	06/13/11 18:58	1.00
PCB-1260	ND		0.485		ug/L		06/13/11 09:40	06/13/11 18:58	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*86*		*17 - 142*	*06/13/11 09:40*	*06/13/11 18:58*	*1.00*
Decachlorobiphenyl	*49*		*10 - 149*	*06/13/11 09:40*	*06/13/11 18:58*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 11:52	1.00
Barium	**0.144**		0.0100		mg/L		06/15/11 06:20	06/15/11 11:52	1.00
Cadmium	ND		0.00100		mg/L		06/15/11 06:20	06/15/11 11:52	1.00
Chromium	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 11:52	1.00
Lead	**0.00870**		0.00500		mg/L		06/15/11 06:20	06/15/11 11:52	1.00
Selenium	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 11:52	1.00
Silver	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 11:52	1.00

Method: SW846 7470A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/13/11 11:10	06/13/11 16:57	1.00

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1681

Client Sample ID: F-UG

Lab Sample ID: NUF1681-02

Date Collected: 06/08/11 09:00
Date Received: 06/09/11 08:55

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Benzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Bromobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Bromochloromethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Bromodichloromethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Bromoform	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Bromomethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
2-Butanone	ND		50.0		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
sec-Butylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
n-Butylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
tert-Butylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Carbon disulfide	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Carbon Tetrachloride	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Chlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Chlorodibromomethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Chloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Chloroform	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Chloromethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
2-Chlorotoluene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
4-Chlorotoluene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Dibromomethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,1-Dichloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,2-Dichloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,1-Dichloroethene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,3-Dichloropropane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,2-Dichloropropane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
2,2-Dichloropropane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,1-Dichloropropene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Ethylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Hexachlorobutadiene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
2-Hexanone	ND		50.0		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Isopropylbenzene	ND	L	1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
p-Isopropyltoluene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Methylene Chloride	ND		5.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Naphthalene	ND		5.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
n-Propylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Styrene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00

Client Sample ID: F-UG
Lab Sample ID: NUF1681-02

Date Collected: 06/08/11 09:00
Matrix: Water
Date Received: 06/09/11 08:55

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Tetrachloroethene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Toluene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Trichloroethene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Trichlorofluoromethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Vinyl chloride	ND		1.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00
Xylenes, total	ND		3.00		ug/L		06/13/11 09:51	06/13/11 17:52	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*94*		*63 - 140*	*06/13/11 09:51*	*06/13/11 17:52*	*1.00*
Dibromofluoromethane	*99*		*73 - 131*	*06/13/11 09:51*	*06/13/11 17:52*	*1.00*
Toluene-d8	*99*		*80 - 120*	*06/13/11 09:51*	*06/13/11 17:52*	*1.00*
4-Bromofluorobenzene	*103*		*79 - 125*	*06/13/11 09:51*	*06/13/11 17:52*	*1.00*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		100		ug/L		06/14/11 16:06	06/15/11 01:09	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*103*		*60 - 150*	*06/14/11 16:06*	*06/15/11 01:09*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.67		ug/L		06/13/11 12:30	06/13/11 21:10	1.00
PCB-1221	ND		1.67		ug/L		06/13/11 12:30	06/13/11 21:10	1.00
PCB-1232	ND		1.67		ug/L		06/13/11 12:30	06/13/11 21:10	1.00
PCB-1242	**3.43**		1.67		ug/L		06/13/11 12:30	06/13/11 21:10	1.00
PCB-1248	ND		1.67		ug/L		06/13/11 12:30	06/13/11 21:10	1.00
PCB-1254	**2.82**		1.67		ug/L		06/13/11 12:30	06/13/11 21:10	1.00
PCB-1260	ND		1.67		ug/L		06/13/11 12:30	06/13/11 21:10	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*42*		*17 - 142*	*06/13/11 12:30*	*06/13/11 21:10*	*1.00*
Decachlorobiphenyl	*11*		*10 - 149*	*06/13/11 12:30*	*06/13/11 21:10*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 11:55	1.00
Barium	**0.285**		0.0100		mg/L		06/15/11 06:20	06/15/11 11:55	1.00
Cadmium	ND		0.00100		mg/L		06/15/11 06:20	06/15/11 11:55	1.00
Chromium	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 11:55	1.00
Lead	**0.0456**		0.00500		mg/L		06/15/11 06:20	06/15/11 11:55	1.00
Selenium	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 11:55	1.00
Silver	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 11:55	1.00

Client Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1681

Client Sample ID: F-UG

Lab Sample ID: NUF1681-02

Date Collected: 06/08/11 09:00

Matrix: Water

Date Received: 06/09/11 08:55

Method: SW846 7470A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/13/11 11:10	06/13/11 16:59	1.00

Client Sample ID: F-07 Lab Sample ID: NUF1681-03

Date Collected: 06/08/11 11:00 **Matrix: Water**
Date Received: 06/09/11 08:55

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Benzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Bromobenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Bromochloromethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Bromodichloromethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Bromoform	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Bromomethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
2-Butanone	ND		50.0		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
sec-Butylbenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
n-Butylbenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
tert-Butylbenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Carbon disulfide	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Carbon Tetrachloride	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Chlorobenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Chlorodibromomethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Chloroethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Chloroform	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Chloromethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
2-Chlorotoluene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
4-Chlorotoluene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Dibromomethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,1-Dichloroethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,2-Dichloroethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,1-Dichloroethene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,3-Dichloropropane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,2-Dichloropropane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
2,2-Dichloropropane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,1-Dichloropropene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Ethylbenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Hexachlorobutadiene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
2-Hexanone	ND		50.0		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Isopropylbenzene	ND	L	1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
p-Isopropyltoluene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Methylene Chloride	ND		5.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Naphthalene	ND		5.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
n-Propylbenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Styrene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00

Client Sample ID: F-07 Lab Sample ID: NUF1681-03

Date Collected: 06/08/11 11:00 **Matrix: Water**
Date Received: 06/09/11 08:55

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Tetrachloroethene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Toluene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Trichloroethene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Trichlorofluoromethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Vinyl chloride	ND		1.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00
Xylenes, total	ND		3.00		ug/L		06/15/11 09:17	06/15/11 13:31	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*95*		*63 - 140*	*06/15/11 09:17*	*06/15/11 13:31*	*1.00*
Dibromofluoromethane	*101*		*73 - 131*	*06/15/11 09:17*	*06/15/11 13:31*	*1.00*
Toluene-d8	*98*		*80 - 120*	*06/15/11 09:17*	*06/15/11 13:31*	*1.00*
4-Bromofluorobenzene	*97*		*79 - 125*	*06/15/11 09:17*	*06/15/11 13:31*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Acenaphthylene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Anthracene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Benzo (a) anthracene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Benzo (a) pyrene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Benzo (b) fluoranthene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Benzo (g,h,i) perylene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Benzo (k) fluoranthene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
4-Bromophenyl phenyl ether	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Butyl benzyl phthalate	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Carbazole	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
4-Chloro-3-methylphenol	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
4-Chloroaniline	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Bis(2-chloroethoxy)methane	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Bis(2-chloroethyl)ether	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Bis(2-chloroisopropyl)ether	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
2-Chloronaphthalene	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
2-Chlorophenol	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
4-Chlorophenyl phenyl ether	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Chrysene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Dibenz (a,h) anthracene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Dibenzofuran	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Di-n-butyl phthalate	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
1,4-Dichlorobenzene	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
1,2-Dichlorobenzene	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
1,3-Dichlorobenzene	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
3,3-Dichlorobenzidine	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
2,4-Dichlorophenol	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00

Client Sample ID: F-07 Lab Sample ID: NUF1681-03

Date Collected: 06/08/11 11:00 **Matrix: Water**
Date Received: 06/09/11 08:55

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
2,4-Dimethylphenol	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Dimethyl phthalate	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
4,6-Dinitro-2-methylphenol	ND		23.6		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
2,4-Dinitrophenol	ND		23.6		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
2,6-Dinitrotoluene	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
2,4-Dinitrotoluene	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Di-n-octyl phthalate	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Bis(2-ethylhexyl)phthalate	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Fluoranthene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Fluorene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Hexachlorobenzene	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Hexachlorobutadiene	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Hexachlorocyclopentadiene	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Hexachloroethane	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Indeno (1,2,3-cd) pyrene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Isophorone	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
2-Methylnaphthalene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
2-Methylphenol	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
3/4-Methylphenol	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Naphthalene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
3-Nitroaniline	ND		23.6		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
2-Nitroaniline	ND		23.6		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
4-Nitroaniline	ND		23.6		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Nitrobenzene	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
4-Nitrophenol	ND		23.6		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
2-Nitrophenol	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
N-Nitrosodiphenylamine	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
N-Nitrosodi-n-propylamine	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Pentachlorophenol	ND		23.6		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Phenanthrene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Phenol	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
Pyrene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
1,2,4-Trichlorobenzene	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
1-Methylnaphthalene	ND		1.89		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
2,4,6-Trichlorophenol	ND		9.43		ug/L		06/12/11 13:30	06/14/11 22:28	1.00
2,4,5-Trichlorophenol	ND		23.6		ug/L		06/12/11 13:30	06/14/11 22:28	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*79*		*13 - 120*	*06/12/11 13:30*	*06/14/11 22:28*	*1.00*
2,4,6-Tribromophenol	*82*		*29 - 132*	*06/12/11 13:30*	*06/14/11 22:28*	*1.00*
Phenol-d5	*25*		*10 - 120*	*06/12/11 13:30*	*06/14/11 22:28*	*1.00*
2-Fluorobiphenyl	*67*		*29 - 120*	*06/12/11 13:30*	*06/14/11 22:28*	*1.00*
2-Fluorophenol	*35*		*10 - 120*	*06/12/11 13:30*	*06/14/11 22:28*	*1.00*
Nitrobenzene-d5	*67*		*27 - 120*	*06/12/11 13:30*	*06/14/11 22:28*	*1.00*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		100		ug/L		06/14/11 16:06	06/15/11 01:39	1.00

Client Sample ID: F-07 Lab Sample ID: NUF1681-03

Date Collected: 06/08/11 11:00 **Matrix: Water**
Date Received: 06/09/11 08:55

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*105*		*60 - 150*	*06/14/11 16:06*	*06/15/11 01:39*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**749**		97.1		ug/L		06/13/11 09:40	06/13/11 20:55	1.00
TPH - Oil Range	**408**		97.1		ug/L		06/13/11 09:40	06/13/11 20:55	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*53 - 140*	*06/13/11 09:40*	*06/13/11 20:55*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.485		ug/L		06/13/11 09:40	06/13/11 19:20	1.00
PCB-1221	ND		0.485		ug/L		06/13/11 09:40	06/13/11 19:20	1.00
PCB-1232	ND		0.485		ug/L		06/13/11 09:40	06/13/11 19:20	1.00
PCB-1242	ND		0.485		ug/L		06/13/11 09:40	06/13/11 19:20	1.00
PCB-1248	ND		0.485		ug/L		06/13/11 09:40	06/13/11 19:20	1.00
PCB-1254	**0.976**		0.485		ug/L		06/13/11 09:40	06/13/11 19:20	1.00
PCB-1260	ND		0.485		ug/L		06/13/11 09:40	06/13/11 19:20	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*81*		*17 - 142*	*06/13/11 09:40*	*06/13/11 19:20*	*1.00*
Decachlorobiphenyl	*34*		*10 - 149*	*06/13/11 09:40*	*06/13/11 19:20*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 11:59	1.00
Barium	**0.106**		0.0100		mg/L		06/15/11 06:20	06/15/11 11:59	1.00
Cadmium	**0.00170**		0.00100		mg/L		06/15/11 06:20	06/15/11 11:59	1.00
Chromium	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 11:59	1.00
Lead	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 11:59	1.00
Selenium	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 11:59	1.00
Silver	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 11:59	1.00

Method: SW846 7470A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/13/11 11:10	06/13/11 17:02	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11F3496-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010431 **Prep Batch: 11F3496_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Benzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Bromobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Bromochloromethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Bromodichloromethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Bromoform	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Bromomethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
2-Butanone	ND		50.0		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
sec-Butylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
n-Butylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
tert-Butylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Carbon disulfide	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Carbon Tetrachloride	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Chlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Chlorodibromomethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Chloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Chloroform	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Chloromethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
2-Chlorotoluene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
4-Chlorotoluene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Dibromomethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,1-Dichloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,2-Dichloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,1-Dichloroethene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,3-Dichloropropane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,2-Dichloropropane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
2,2-Dichloropropane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,1-Dichloropropene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Ethylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Hexachlorobutadiene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
2-Hexanone	ND		50.0		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Isopropylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
p-Isopropyltoluene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Methylene Chloride	ND		5.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Naphthalene	ND		5.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
n-Propylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Styrene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3496-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010431 **Prep Batch: 11F3496_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Tetrachloroethene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Toluene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Trichloroethene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Trichlorofluoromethane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Vinyl chloride	ND		1.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00
Xylenes, total	ND		3.00		ug/L		06/13/11 09:51	06/13/11 12:41	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*93*		*63 - 140*	*06/13/11 09:51*	*06/13/11 12:41*	*1.00*
Dibromofluoromethane	*95*		*73 - 131*	*06/13/11 09:51*	*06/13/11 12:41*	*1.00*
Toluene-d8	*100*		*80 - 120*	*06/13/11 09:51*	*06/13/11 12:41*	*1.00*
4-Bromofluorobenzene	*105*		*79 - 125*	*06/13/11 09:51*	*06/13/11 12:41*	*1.00*

Lab Sample ID: 11F3496-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010431 **Prep Batch: 11F3496_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	243		ug/L		97	56 - 150
Benzene	50.0	52.7		ug/L		105	80 - 121
Bromobenzene	50.0	52.9		ug/L		106	72 - 130
Bromochloromethane	50.0	51.8		ug/L		104	73 - 137
Bromodichloromethane	50.0	55.4		ug/L		111	75 - 131
Bromoform	50.0	45.9		ug/L		92	65 - 140
Bromomethane	50.0	46.5		ug/L		93	50 - 150
2-Butanone	250	238		ug/L		95	70 - 144
sec-Butylbenzene	50.0	57.9		ug/L		116	72 - 140
n-Butylbenzene	50.0	53.7		ug/L		107	68 - 140
tert-Butylbenzene	50.0	56.9		ug/L		114	76 - 135
Carbon disulfide	50.0	46.1		ug/L		92	74 - 137
Carbon Tetrachloride	50.0	57.5		ug/L		115	71 - 137
Chlorobenzene	50.0	51.6		ug/L		103	80 - 121
Chlorodibromomethane	50.0	50.1		ug/L		100	68 - 137
Chloroethane	50.0	45.8		ug/L		92	50 - 146
Chloroform	50.0	52.6		ug/L		105	73 - 131
Chloromethane	50.0	31.6		ug/L		63	30 - 132
2-Chlorotoluene	50.0	52.9		ug/L		106	74 - 135
4-Chlorotoluene	50.0	54.6		ug/L		109	74 - 132
1,2-Dibromo-3-chloropropane	50.0	46.2		ug/L		92	56 - 145
1,2-Dibromoethane (EDB)	50.0	54.5		ug/L		109	80 - 135

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3496-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010431 **Prep Batch: 11F3496_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Dibromomethane	50.0	51.4		ug/L		103	78 - 133
1,4-Dichlorobenzene	50.0	51.7		ug/L		103	80 - 120
1,3-Dichlorobenzene	50.0	53.6		ug/L		107	80 - 128
1,2-Dichlorobenzene	50.0	53.0		ug/L		106	80 - 125
Dichlorodifluoromethane	50.0	34.3		ug/L		69	30 - 132
1,1-Dichloroethane	50.0	45.4		ug/L		91	75 - 125
1,2-Dichloroethane	50.0	48.0		ug/L		96	70 - 134
cis-1,2-Dichloroethene	50.0	52.2		ug/L		104	71 - 132
1,1-Dichloroethene	50.0	44.6		ug/L		89	73 - 125
trans-1,2-Dichloroethene	50.0	45.4		ug/L		91	77 - 125
1,3-Dichloropropane	50.0	52.6		ug/L		105	76 - 125
1,2-Dichloropropane	50.0	52.4		ug/L		105	72 - 120
2,2-Dichloropropane	50.0	57.0		ug/L		114	50 - 150
cis-1,3-Dichloropropene	50.0	63.5		ug/L		127	70 - 140
trans-1,3-Dichloropropene	50.0	52.6		ug/L		105	62 - 139
1,1-Dichloropropene	50.0	55.1		ug/L		110	78 - 126
Ethylbenzene	50.0	54.3		ug/L		109	78 - 133
Hexachlorobutadiene	50.0	47.6		ug/L		95	70 - 150
2-Hexanone	250	254		ug/L		101	60 - 150
Isopropylbenzene	50.0	61.1	L1	ug/L		122	69 - 120
p-Isopropyltoluene	50.0	55.9		ug/L		112	72 - 134
Methyl tert-Butyl Ether	50.0	42.5		ug/L		85	76 - 120
Methylene Chloride	50.0	46.8		ug/L		94	80 - 133
4-Methyl-2-pentanone	250	257		ug/L		103	62 - 146
Naphthalene	50.0	54.3		ug/L		109	71 - 139
n-Propylbenzene	50.0	55.7		ug/L		111	70 - 143
Styrene	50.0	56.3		ug/L		113	80 - 136
1,1,1,2-Tetrachloroethane	50.0	57.6		ug/L		115	80 - 130
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/L		102	73 - 131
Tetrachloroethene	50.0	53.4		ug/L		107	77 - 131
Toluene	50.0	52.1		ug/L		104	78 - 125
1,2,3-Trichlorobenzene	50.0	50.9		ug/L		102	71 - 138
1,2,4-Trichlorobenzene	50.0	54.9		ug/L		110	74 - 136
1,1,2-Trichloroethane	50.0	50.4		ug/L		101	80 - 123
1,1,1-Trichloroethane	50.0	55.3		ug/L		111	75 - 137
Trichloroethene	50.0	55.7		ug/L		111	74 - 139
Trichlorofluoromethane	50.0	36.7		ug/L		73	60 - 133
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	64 - 127
1,3,5-Trimethylbenzene	50.0	56.4		ug/L		113	75 - 134
1,2,4-Trimethylbenzene	50.0	55.6		ug/L		111	77 - 134
Vinyl chloride	50.0	37.4		ug/L		75	60 - 122
Xylenes, total	150	162		ug/L		108	78 - 134

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*90*		*63 - 140*
Dibromofluoromethane	*99*		*73 - 131*
Toluene-d8	*99*		*80 - 120*
4-Bromofluorobenzene	*103*		*79 - 125*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3496-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010431 **Prep Batch: 11F3496_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	250	269		ug/L		108	56 - 150	10	31
Benzene	50.0	52.3		ug/L		105	80 - 121	0.6	12
Bromobenzene	50.0	52.5		ug/L		105	72 - 130	0.7	23
Bromochloromethane	50.0	51.0		ug/L		102	73 - 137	2	32
Bromodichloromethane	50.0	54.9		ug/L		110	75 - 131	0.9	13
Bromoform	50.0	45.1		ug/L		90	65 - 140	2	18
Bromomethane	50.0	46.7		ug/L		93	50 - 150	0.3	50
2-Butanone	250	244		ug/L		97	70 - 144	2	37
sec-Butylbenzene	50.0	57.0		ug/L		114	72 - 140	2	21
n-Butylbenzene	50.0	52.6		ug/L		105	68 - 140	2	11
tert-Butylbenzene	50.0	56.5		ug/L		113	76 - 135	0.8	20
Carbon disulfide	50.0	45.6		ug/L		91	74 - 137	1	28
Carbon Tetrachloride	50.0	57.1		ug/L		114	71 - 137	0.6	26
Chlorobenzene	50.0	51.4		ug/L		103	80 - 121	0.4	11
Chlorodibromomethane	50.0	49.9		ug/L		100	68 - 137	0.4	16
Chloroethane	50.0	45.6		ug/L		91	50 - 146	0.3	35
Chloroform	50.0	52.0		ug/L		104	73 - 131	1	32
Chloromethane	50.0	32.7		ug/L		65	30 - 132	3	34
2-Chlorotoluene	50.0	52.4		ug/L		105	74 - 135	1	22
4-Chlorotoluene	50.0	54.0		ug/L		108	74 - 132	1	22
1,2-Dibromo-3-chloropropane	50.0	46.0		ug/L		92	56 - 145	0.5	21
1,2-Dibromoethane (EDB)	50.0	53.9		ug/L		108	80 - 135	1	10
Dibromomethane	50.0	51.5		ug/L		103	78 - 133	0.1	11
1,4-Dichlorobenzene	50.0	51.4		ug/L		103	80 - 120	0.7	10
1,3-Dichlorobenzene	50.0	52.7		ug/L		105	80 - 128	2	18
1,2-Dichlorobenzene	50.0	52.6		ug/L		105	80 - 125	0.7	11
Dichlorodifluoromethane	50.0	34.5		ug/L		69	30 - 132	0.3	32
1,1-Dichloroethane	50.0	44.7		ug/L		89	75 - 125	1	34
1,2-Dichloroethane	50.0	47.8		ug/L		96	70 - 134	0.5	25
cis-1,2-Dichloroethene	50.0	50.7		ug/L		101	71 - 132	3	32
1,1-Dichloroethene	50.0	44.3		ug/L		89	73 - 125	0.7	31
trans-1,2-Dichloroethene	50.0	45.1		ug/L		90	77 - 125	0.5	32
1,3-Dichloropropane	50.0	51.8		ug/L		104	76 - 125	1	20
1,2-Dichloropropane	50.0	52.0		ug/L		104	72 - 120	0.7	11
2,2-Dichloropropane	50.0	55.5		ug/L		111	50 - 150	3	11
cis-1,3-Dichloropropene	50.0	62.8		ug/L		126	70 - 140	1	35
trans-1,3-Dichloropropene	50.0	51.7		ug/L		103	62 - 139	2	26
1,1-Dichloropropene	50.0	54.8		ug/L		110	78 - 126	0.5	18
Ethylbenzene	50.0	54.0		ug/L		108	78 - 133	0.7	12
Hexachlorobutadiene	50.0	47.6		ug/L		95	70 - 150	0.08	21
2-Hexanone	250	261		ug/L		105	60 - 150	3	20
Isopropylbenzene	50.0	60.7	L1	ug/L		121	69 - 120	0.6	15
p-Isopropyltoluene	50.0	55.2		ug/L		110	72 - 134	1	18
Methyl tert-Butyl Ether	50.0	42.8		ug/L		86	76 - 120	0.7	32
Methylene Chloride	50.0	47.1		ug/L		94	80 - 133	0.7	36
4-Methyl-2-pentanone	250	258		ug/L		103	62 - 146	0.2	35
Naphthalene	50.0	54.5		ug/L		109	71 - 139	0.4	30
n-Propylbenzene	50.0	54.9		ug/L		110	70 - 143	1	23
Styrene	50.0	55.6		ug/L		111	80 - 136	1	29

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3496-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010431 **Prep Batch: 11F3496_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	57.5		ug/L		115	80 - 130	0.2	11
1,1,2,2-Tetrachloroethane	50.0	50.1		ug/L		100	73 - 131	1	28
Tetrachloroethene	50.0	53.6		ug/L		107	77 - 131	0.2	16
Toluene	50.0	52.0		ug/L		104	78 - 125	0.1	35
1,2,3-Trichlorobenzene	50.0	51.2		ug/L		102	71 - 138	0.5	28
1,2,4-Trichlorobenzene	50.0	55.1		ug/L		110	74 - 136	0.4	23
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	80 - 123	0.6	21
1,1,1-Trichloroethane	50.0	55.4		ug/L		111	75 - 137	0.2	29
Trichloroethene	50.0	55.4		ug/L		111	74 - 139	0.5	11
Trichlorofluoromethane	50.0	36.9		ug/L		74	60 - 133	0.4	33
1,2,3-Trichloropropane	50.0	50.4		ug/L		101	64 - 127	0.5	25
1,3,5-Trimethylbenzene	50.0	55.8		ug/L		112	75 - 134	1	21
1,2,4-Trimethylbenzene	50.0	54.9		ug/L		110	77 - 134	1	20
Vinyl chloride	50.0	37.6		ug/L		75	60 - 122	0.5	32
Xylenes, total	150	161		ug/L		107	78 - 134	0.4	18

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*90*		*63 - 140*
Dibromofluoromethane	*100*		*73 - 131*
Toluene-d8	*99*		*80 - 120*
4-Bromofluorobenzene	*104*		*79 - 125*

Lab Sample ID: 11F3496-MS1 **Client Sample ID: Matrix Spike**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010431 **Prep Batch: 11F3496_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	53.4		250	283		ug/L		92	56 - 150
Benzene	4.42		50.0	59.1		ug/L		109	65 - 151
Bromobenzene	ND		50.0	45.2		ug/L		90	69 - 142
Bromochloromethane	ND		50.0	57.0		ug/L		114	64 - 154
Bromodichloromethane	ND		50.0	58.8		ug/L		118	75 - 138
Bromoform	ND		50.0	47.7		ug/L		95	55 - 153
Bromomethane	ND		50.0	27.8		ug/L		56	13 - 176
2-Butanone	13.1		250	270		ug/L		103	45 - 164
sec-Butylbenzene	1.50		50.0	31.7	M8	ug/L		60	68 - 159
n-Butylbenzene	2.52		50.0	27.4	M8	ug/L		50	67 - 151
tert-Butylbenzene	ND		50.0	33.5	M8	ug/L		67	73 - 153
Carbon disulfide	4.38		50.0	54.2		ug/L		100	33 - 187
Carbon Tetrachloride	ND		50.0	56.7		ug/L		113	64 - 157
Chlorobenzene	0.950		50.0	48.7		ug/L		96	78 - 136
Chlorodibromomethane	ND		50.0	52.3		ug/L		105	64 - 145
Chloroethane	ND		50.0	53.4		ug/L		107	48 - 159
Chloroform	ND		50.0	55.4		ug/L		111	72 - 145
Chloromethane	ND		50.0	28.4		ug/L		57	10 - 194
2-Chlorotoluene	ND		50.0	60.4		ug/L		121	66 - 155
4-Chlorotoluene	ND		50.0	44.3		ug/L		89	69 - 149
1,2-Dibromo-3-chloropropane	ND		50.0	53.2		ug/L		106	49 - 162
1,2-Dibromoethane (EDB)	ND		50.0	57.9		ug/L		116	70 - 152

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3496-MS1 **Client Sample ID: Matrix Spike**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010431 **Prep Batch: 11F3496_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Dibromomethane	ND		50.0	57.1		ug/L		114	75 - 141
1,4-Dichlorobenzene	0.820		50.0	39.4		ug/L		77	75 - 135
1,3-Dichlorobenzene	16.9		50.0	56.8		ug/L		80	72 - 146
1,2-Dichlorobenzene	ND		50.0	40.7		ug/L		81	80 - 136
Dichlorodifluoromethane	ND		50.0	32.2		ug/L		64	23 - 159
1,1-Dichloroethane	ND		50.0	47.6		ug/L		95	64 - 154
1,2-Dichloroethane	0.490		50.0	52.2		ug/L		103	72 - 137
cis-1,2-Dichloroethene	0.520		50.0	54.1		ug/L		107	57 - 154
1,1-Dichloroethene	ND		50.0	47.1		ug/L		94	34 - 151
trans-1,2-Dichloroethene	ND		50.0	48.2		ug/L		96	57 - 157
1,3-Dichloropropane	ND		50.0	54.6		ug/L		109	71 - 137
1,2-Dichloropropane	ND		50.0	54.1		ug/L		108	71 - 139
2,2-Dichloropropane	ND		50.0	60.9		ug/L		122	10 - 198
cis-1,3-Dichloropropene	ND		50.0	63.5		ug/L		127	56 - 156
trans-1,3-Dichloropropene	ND		50.0	54.9		ug/L		110	47 - 157
1,1-Dichloropropene	ND		50.0	53.8		ug/L		108	70 - 155
Ethylbenzene	31.8		50.0	78.4		ug/L		93	68 - 157
Hexachlorobutadiene	ND		50.0	14.2	M8	ug/L		28	47 - 173
2-Hexanone	ND		250	305		ug/L		122	57 - 154
Isopropylbenzene	5.50		50.0	49.5		ug/L		88	69 - 139
p-Isopropyltoluene	1.16		50.0	31.2	M8	ug/L		60	69 - 151
Methyl tert-Butyl Ether	1.71		50.0	50.2		ug/L		97	56 - 152
Methylene Chloride	ND		50.0	50.2		ug/L		100	71 - 136
4-Methyl-2-pentanone	3.74		250	314		ug/L		124	62 - 159
Naphthalene	13.5		50.0	56.1		ug/L		85	56 - 161
n-Propylbenzene	20.0		50.0	56.8		ug/L		74	61 - 167
Styrene	ND		50.0	48.6		ug/L		97	69 - 150
1,1,1,2-Tetrachloroethane	ND		50.0	55.4		ug/L		111	80 - 140
1,1,2,2-Tetrachloroethane	ND		50.0	55.1		ug/L		110	76 - 141
Tetrachloroethene	3.12		50.0	47.5		ug/L		89	63 - 155
Toluene	5.48		50.0	55.6		ug/L		100	61 - 153
1,2,3-Trichlorobenzene	ND		50.0	30.6		ug/L		61	57 - 155
1,2,4-Trichlorobenzene	ND		50.0	30.7	M8	ug/L		61	64 - 147
1,1,2-Trichloroethane	ND		50.0	54.2		ug/L		108	74 - 138
1,1,1-Trichloroethane	ND		50.0	57.3		ug/L		115	78 - 153
Trichloroethene	ND		50.0	56.5		ug/L		113	74 - 139
Trichlorofluoromethane	ND		50.0	39.2		ug/L		78	53 - 149
1,2,3-Trichloropropane	ND		50.0	54.2		ug/L		108	49 - 148
1,3,5-Trimethylbenzene	36.0		50.0	75.7		ug/L		79	67 - 151
1,2,4-Trimethylbenzene	130		50.0	170		ug/L		78	69 - 150
Vinyl chloride	ND		50.0	40.3		ug/L		81	53 - 137
Xylenes, total	178		150	308		ug/L		86	68 - 158

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*94*		*63 - 140*
Dibromofluoromethane	*103*		*73 - 131*
Toluene-d8	*97*		*80 - 120*
4-Bromofluorobenzene	*101*		*79 - 125*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3496-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010431 **Prep Batch: 11F3496_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	53.4		250	277		ug/L		89	56 - 150	2	31
Benzene	4.42		50.0	58.2		ug/L		108	65 - 151	2	12
Bromobenzene	ND		50.0	44.8		ug/L		90	69 - 142	0.7	23
Bromochloromethane	ND		50.0	55.4		ug/L		111	64 - 154	3	32
Bromodichloromethane	ND		50.0	58.1		ug/L		116	75 - 138	1	13
Bromoform	ND		50.0	47.4		ug/L		95	55 - 153	0.6	18
Bromomethane	ND		50.0	32.2		ug/L		64	13 - 176	15	50
2-Butanone	13.1		250	264		ug/L		100	45 - 164	3	37
sec-Butylbenzene	1.50		50.0	27.8	M8	ug/L		53	68 - 159	13	21
n-Butylbenzene	2.52		50.0	23.6	R2 M8	ug/L		42	67 - 151	15	11
tert-Butylbenzene	ND		50.0	30.4	M8	ug/L		61	73 - 153	10	20
Carbon disulfide	4.38		50.0	55.6		ug/L		102	33 - 187	3	28
Carbon Tetrachloride	ND		50.0	55.2		ug/L		110	64 - 157	3	26
Chlorobenzene	0.950		50.0	47.9		ug/L		94	78 - 136	2	11
Chlorodibromomethane	ND		50.0	51.7		ug/L		103	64 - 145	1	16
Chloroethane	ND		50.0	67.3		ug/L		135	48 - 159	23	35
Chloroform	ND		50.0	54.8		ug/L		110	72 - 145	1	32
Chloromethane	ND		50.0	25.4		ug/L		51	10 - 194	11	34
2-Chlorotoluene	ND		50.0	58.8		ug/L		118	66 - 155	3	22
4-Chlorotoluene	ND		50.0	42.9		ug/L		86	69 - 149	3	22
1,2-Dibromo-3-chloropropane	ND		50.0	53.5		ug/L		107	49 - 162	0.6	21
1,2-Dibromoethane (EDB)	ND		50.0	57.4		ug/L		115	70 - 152	0.9	10
Dibromomethane	ND		50.0	56.0		ug/L		112	75 - 141	2	11
1,4-Dichlorobenzene	0.820		50.0	38.2		ug/L		75	75 - 135	3	10
1,3-Dichlorobenzene	16.9		50.0	56.0		ug/L		78	72 - 146	1	18
1,2-Dichlorobenzene	ND		50.0	38.9	M8	ug/L		78	80 - 136	5	11
Dichlorodifluoromethane	ND		50.0	31.3		ug/L		63	23 - 159	3	32
1,1-Dichloroethane	ND		50.0	46.8		ug/L		94	64 - 154	2	34
1,2-Dichloroethane	0.490		50.0	51.7		ug/L		102	72 - 137	1	25
cis-1,2-Dichloroethene	0.520		50.0	53.3		ug/L		106	57 - 154	1	32
1,1-Dichloroethene	ND		50.0	46.6		ug/L		93	34 - 151	1	31
trans-1,2-Dichloroethene	ND		50.0	47.4		ug/L		95	57 - 157	2	32
1,3-Dichloropropane	ND		50.0	54.0		ug/L		108	71 - 137	1	20
1,2-Dichloropropane	ND		50.0	53.7		ug/L		107	71 - 139	0.7	11
2,2-Dichloropropane	ND		50.0	59.9		ug/L		120	10 - 198	2	11
cis-1,3-Dichloropropene	ND		50.0	63.4		ug/L		127	56 - 156	0.2	35
trans-1,3-Dichloropropene	ND		50.0	54.1		ug/L		108	47 - 157	2	26
1,1-Dichloropropene	ND		50.0	53.1		ug/L		106	70 - 155	1	18
Ethylbenzene	31.8		50.0	76.0		ug/L		88	68 - 157	3	12
Hexachlorobutadiene	ND		50.0	10.7	R2 M8	ug/L		21	47 - 173	28	21
2-Hexanone	ND		250	301		ug/L		121	57 - 154	1	20
Isopropylbenzene	5.50		50.0	46.9		ug/L		83	69 - 139	5	15
p-Isopropyltoluene	1.16		50.0	27.6	M8	ug/L		53	69 - 151	12	18
Methyl tert-Butyl Ether	1.71		50.0	50.0		ug/L		96	56 - 152	0.4	32
Methylene Chloride	ND		50.0	49.8		ug/L		100	71 - 136	0.9	36
4-Methyl-2-pentanone	3.74		250	311		ug/L		123	62 - 159	1	35
Naphthalene	13.5		50.0	54.5		ug/L		82	56 - 161	3	30
n-Propylbenzene	20.0		50.0	54.3		ug/L		69	61 - 167	5	23
Styrene	ND		50.0	48.6		ug/L		97	69 - 150	0.02	29

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3496-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010431 **Prep Batch: 11F3496_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	54.8		ug/L		110	80 - 140	1	11
1,1,2,2-Tetrachloroethane	ND		50.0	54.9		ug/L		110	76 - 141	0.5	28
Tetrachloroethene	3.12		50.0	45.5		ug/L		85	63 - 155	4	16
Toluene	5.48		50.0	54.2		ug/L		97	61 - 153	2	35
1,2,3-Trichlorobenzene	ND		50.0	28.0	M8	ug/L		56	57 - 155	9	28
1,2,4-Trichlorobenzene	ND		50.0	27.9	M8	ug/L		56	64 - 147	10	23
1,1,2-Trichloroethane	ND		50.0	52.7		ug/L		105	74 - 138	3	21
1,1,1-Trichloroethane	ND		50.0	56.3		ug/L		113	78 - 153	2	29
Trichloroethene	ND		50.0	55.4		ug/L		111	74 - 139	2	11
Trichlorofluoromethane	ND		50.0	37.9		ug/L		76	53 - 149	3	33
1,2,3-Trichloropropane	ND		50.0	55.4		ug/L		111	49 - 148	2	25
1,3,5-Trimethylbenzene	36.0		50.0	73.2		ug/L		74	67 - 151	3	21
1,2,4-Trimethylbenzene	130		50.0	167		ug/L		73	69 - 150	2	20
Vinyl chloride	ND		50.0	39.3		ug/L		79	53 - 137	2	32
Xylenes, total	178		150	298		ug/L		80	68 - 158	3	18

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*93*		*63 - 140*
Dibromofluoromethane	*102*		*73 - 131*
Toluene-d8	*97*		*80 - 120*
4-Bromofluorobenzene	*101*		*79 - 125*

Lab Sample ID: 11F4109-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010602 **Prep Batch: 11F4109_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Benzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Bromobenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Bromochloromethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Bromodichloromethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Bromoform	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Bromomethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
2-Butanone	ND		50.0		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
sec-Butylbenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
n-Butylbenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
tert-Butylbenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Carbon disulfide	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Carbon Tetrachloride	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Chlorobenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Chlorodibromomethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Chloroethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Chloroform	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Chloromethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
2-Chlorotoluene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
4-Chlorotoluene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4109-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010602 **Prep Batch: 11F4109_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,1-Dichloroethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,2-Dichloroethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,1-Dichloroethene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,3-Dichloropropane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,2-Dichloropropane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
2,2-Dichloropropane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,1-Dichloropropene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Ethylbenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Hexachlorobutadiene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
2-Hexanone	ND		50.0		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Isopropylbenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
p-Isopropyltoluene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Methylene Chloride	ND		5.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Naphthalene	ND		5.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
n-Propylbenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Styrene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Tetrachloroethene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Toluene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Trichloroethene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Trichlorofluoromethane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Vinyl chloride	ND		1.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00
Xylenes, total	ND		3.00		ug/L		06/15/11 09:17	06/15/11 12:07	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*98*		*63 - 140*	*06/15/11 09:17*	*06/15/11 12:07*	*1.00*
Dibromofluoromethane	*100*		*73 - 131*	*06/15/11 09:17*	*06/15/11 12:07*	*1.00*
Toluene-d8	*99*		*80 - 120*	*06/15/11 09:17*	*06/15/11 12:07*	*1.00*
4-Bromofluorobenzene	*100*		*79 - 125*	*06/15/11 09:17*	*06/15/11 12:07*	*1.00*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4109-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010602 **Prep Batch: 11F4109_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	254		ug/L		102	56 - 150
Benzene	50.0	52.7		ug/L		105	80 - 121
Bromobenzene	50.0	48.7		ug/L		97	72 - 130
Bromochloromethane	50.0	50.5		ug/L		101	73 - 137
Bromodichloromethane	50.0	56.3		ug/L		113	75 - 131
Bromoform	50.0	46.8		ug/L		94	65 - 140
Bromomethane	50.0	48.3		ug/L		97	50 - 150
2-Butanone	250	237		ug/L		95	70 - 144
sec-Butylbenzene	50.0	52.6		ug/L		105	72 - 140
n-Butylbenzene	50.0	48.5		ug/L		97	68 - 140
tert-Butylbenzene	50.0	51.9		ug/L		104	76 - 135
Carbon disulfide	50.0	47.0		ug/L		94	74 - 137
Carbon Tetrachloride	50.0	57.0		ug/L		114	71 - 137
Chlorobenzene	50.0	49.9		ug/L		100	80 - 121
Chlorodibromomethane	50.0	50.9		ug/L		102	68 - 137
Chloroethane	50.0	46.9		ug/L		94	50 - 146
Chloroform	50.0	53.9		ug/L		108	73 - 131
Chloromethane	50.0	31.2		ug/L		62	30 - 132
2-Chlorotoluene	50.0	48.5		ug/L		97	74 - 135
4-Chlorotoluene	50.0	50.3		ug/L		101	74 - 132
1,2-Dibromo-3-chloropropane	50.0	42.6		ug/L		85	56 - 145
1,2-Dibromoethane (EDB)	50.0	54.2		ug/L		108	80 - 135
Dibromomethane	50.0	52.5		ug/L		105	78 - 133
1,4-Dichlorobenzene	50.0	48.8		ug/L		98	80 - 120
1,3-Dichlorobenzene	50.0	50.0		ug/L		100	80 - 128
1,2-Dichlorobenzene	50.0	50.1		ug/L		100	80 - 125
Dichlorodifluoromethane	50.0	33.3		ug/L		67	30 - 132
1,1-Dichloroethane	50.0	46.7		ug/L		93	75 - 125
1,2-Dichloroethane	50.0	49.2		ug/L		98	70 - 134
cis-1,2-Dichloroethene	50.0	50.2		ug/L		100	71 - 132
1,1-Dichloroethene	50.0	47.7		ug/L		95	73 - 125
trans-1,2-Dichloroethene	50.0	47.1		ug/L		94	77 - 125
1,3-Dichloropropane	50.0	51.5		ug/L		103	76 - 125
1,2-Dichloropropane	50.0	51.2		ug/L		102	72 - 120
2,2-Dichloropropane	50.0	52.9		ug/L		106	50 - 150
cis-1,3-Dichloropropene	50.0	60.4		ug/L		121	70 - 140
trans-1,3-Dichloropropene	50.0	50.5		ug/L		101	62 - 139
1,1-Dichloropropene	50.0	53.5		ug/L		107	78 - 126
Ethylbenzene	50.0	53.4		ug/L		107	78 - 133
Hexachlorobutadiene	50.0	44.0		ug/L		88	70 - 150
2-Hexanone	250	260		ug/L		104	60 - 150
Isopropylbenzene	50.0	60.5	L1	ug/L		121	69 - 120
p-Isopropyltoluene	50.0	50.4		ug/L		101	72 - 134
Methyl tert-Butyl Ether	50.0	43.2		ug/L		86	76 - 120
Methylene Chloride	50.0	49.2		ug/L		98	80 - 133
4-Methyl-2-pentanone	250	262		ug/L		105	62 - 146
Naphthalene	50.0	51.2		ug/L		102	71 - 139
n-Propylbenzene	50.0	51.2		ug/L		102	70 - 143
Styrene	50.0	56.0		ug/L		112	80 - 136

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4109-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010602 **Prep Batch: 11F4109_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	56.4		ug/L		113	80 - 130
1,1,2,2-Tetrachloroethane	50.0	49.0		ug/L		98	73 - 131
Tetrachloroethene	50.0	52.5		ug/L		105	77 - 131
Toluene	50.0	50.8		ug/L		102	78 - 125
1,2,3-Trichlorobenzene	50.0	47.8		ug/L		96	71 - 138
1,2,4-Trichlorobenzene	50.0	50.8		ug/L		102	74 - 136
1,1,2-Trichloroethane	50.0	51.4		ug/L		103	80 - 123
1,1,1-Trichloroethane	50.0	55.4		ug/L		111	75 - 137
Trichloroethene	50.0	54.3		ug/L		109	74 - 139
Trichlorofluoromethane	50.0	39.3		ug/L		79	60 - 133
1,2,3-Trichloropropane	50.0	48.5		ug/L		97	64 - 127
1,3,5-Trimethylbenzene	50.0	51.5		ug/L		103	75 - 134
1,2,4-Trimethylbenzene	50.0	50.8		ug/L		102	77 - 134
Vinyl chloride	50.0	37.9		ug/L		76	60 - 122
Xylenes, total	150	160		ug/L		107	78 - 134

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*95*		*63 - 140*
Dibromofluoromethane	*101*		*73 - 131*
Toluene-d8	*97*		*80 - 120*
4-Bromofluorobenzene	*96*		*79 - 125*

Lab Sample ID: 11F4109-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010602 **Prep Batch: 11F4109_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	250	255		ug/L		102	56 - 150	0.5	31
Benzene	50.0	52.7		ug/L		105	80 - 121	0.02	12
Bromobenzene	50.0	49.3		ug/L		99	72 - 130	1	23
Bromochloromethane	50.0	49.7		ug/L		99	73 - 137	1	32
Bromodichloromethane	50.0	56.4		ug/L		113	75 - 131	0.1	13
Bromoform	50.0	47.4		ug/L		95	65 - 140	1	18
Bromomethane	50.0	46.9		ug/L		94	50 - 150	3	50
2-Butanone	250	242		ug/L		97	70 - 144	2	37
sec-Butylbenzene	50.0	52.8		ug/L		106	72 - 140	0.4	21
n-Butylbenzene	50.0	48.5		ug/L		97	68 - 140	0.06	11
tert-Butylbenzene	50.0	52.2		ug/L		104	76 - 135	0.6	20
Carbon disulfide	50.0	47.1		ug/L		94	74 - 137	0.2	28
Carbon Tetrachloride	50.0	57.5		ug/L		115	71 - 137	0.9	26
Chlorobenzene	50.0	49.6		ug/L		99	80 - 121	0.5	11
Chlorodibromomethane	50.0	50.6		ug/L		101	68 - 137	0.7	16
Chloroethane	50.0	46.1		ug/L		92	50 - 146	2	35
Chloroform	50.0	53.6		ug/L		107	73 - 131	0.6	32
Chloromethane	50.0	30.4		ug/L		61	30 - 132	3	34
2-Chlorotoluene	50.0	48.5		ug/L		97	74 - 135	0.08	22
4-Chlorotoluene	50.0	50.4		ug/L		101	74 - 132	0.2	22
1,2-Dibromo-3-chloropropane	50.0	44.2		ug/L		88	56 - 145	4	21
1,2-Dibromoethane (EDB)	50.0	54.6		ug/L		109	80 - 135	0.9	10

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4109-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010602 **Prep Batch: 11F4109_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dibromomethane	50.0	52.4		ug/L		105	78 - 133	0.2	11
1,4-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120	0.2	10
1,3-Dichlorobenzene	50.0	50.2		ug/L		100	80 - 128	0.3	18
1,2-Dichlorobenzene	50.0	50.2		ug/L		100	80 - 125	0.3	11
Dichlorodifluoromethane	50.0	33.8		ug/L		68	30 - 132	1	32
1,1-Dichloroethane	50.0	46.3		ug/L		93	75 - 125	1	34
1,2-Dichloroethane	50.0	49.0		ug/L		98	70 - 134	0.3	25
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	71 - 132	0.4	32
1,1-Dichloroethene	50.0	47.6		ug/L		95	73 - 125	0.3	31
trans-1,2-Dichloroethene	50.0	46.8		ug/L		94	77 - 125	0.8	32
1,3-Dichloropropane	50.0	51.6		ug/L		103	76 - 125	0.2	20
1,2-Dichloropropane	50.0	51.1		ug/L		102	72 - 120	0.4	11
2,2-Dichloropropane	50.0	52.8		ug/L		106	50 - 150	0.2	11
cis-1,3-Dichloropropene	50.0	60.0		ug/L		120	70 - 140	0.7	35
trans-1,3-Dichloropropene	50.0	50.3		ug/L		101	62 - 139	0.4	26
1,1-Dichloropropene	50.0	53.3		ug/L		107	78 - 126	0.4	18
Ethylbenzene	50.0	53.2		ug/L		106	78 - 133	0.3	12
Hexachlorobutadiene	50.0	43.7		ug/L		87	70 - 150	0.7	21
2-Hexanone	250	262		ug/L		105	60 - 150	0.8	20
Isopropylbenzene	50.0	60.8	L1	ug/L		122	69 - 120	0.6	15
p-Isopropyltoluene	50.0	50.5		ug/L		101	72 - 134	0.2	18
Methyl tert-Butyl Ether	50.0	43.1		ug/L		86	76 - 120	0.2	32
Methylene Chloride	50.0	48.8		ug/L		98	80 - 133	0.8	36
4-Methyl-2-pentanone	250	266		ug/L		106	62 - 146	1	35
Naphthalene	50.0	52.1		ug/L		104	71 - 139	2	30
n-Propylbenzene	50.0	51.2		ug/L		102	70 - 143	0.02	23
Styrene	50.0	56.1		ug/L		112	80 - 136	0.2	29
1,1,1,2-Tetrachloroethane	50.0	56.4		ug/L		113	80 - 130	0.1	11
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/L		100	73 - 131	2	28
Tetrachloroethene	50.0	52.4		ug/L		105	77 - 131	0.06	16
Toluene	50.0	50.7		ug/L		101	78 - 125	0.2	35
1,2,3-Trichlorobenzene	50.0	47.9		ug/L		96	71 - 138	0.1	28
1,2,4-Trichlorobenzene	50.0	51.2		ug/L		102	74 - 136	0.7	23
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	80 - 123	0.04	21
1,1,1-Trichloroethane	50.0	55.6		ug/L		111	75 - 137	0.4	29
Trichloroethene	50.0	54.5		ug/L		109	74 - 139	0.3	11
Trichlorofluoromethane	50.0	40.0		ug/L		80	60 - 133	2	33
1,2,3-Trichloropropane	50.0	49.7		ug/L		99	64 - 127	3	25
1,3,5-Trimethylbenzene	50.0	51.8		ug/L		104	75 - 134	0.7	21
1,2,4-Trimethylbenzene	50.0	50.7		ug/L		101	77 - 134	0.1	20
Vinyl chloride	50.0	38.0		ug/L		76	60 - 122	0.08	32
Xylenes, total	150	161		ug/L		107	78 - 134	0.2	18

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*94*		*63 - 140*
Dibromofluoromethane	*102*		*73 - 131*
Toluene-d8	*97*		*80 - 120*
4-Bromofluorobenzene	*97*		*79 - 125*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4109-MS1 **Client Sample ID: Matrix Spike**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010602 **Prep Batch: 11F4109_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	ND		250	250		ug/L		100	56 - 150
Benzene	ND		50.0	59.0		ug/L		118	65 - 151
Bromobenzene	ND		50.0	53.4		ug/L		107	69 - 142
Bromochloromethane	ND		50.0	53.4		ug/L		107	64 - 154
Bromodichloromethane	ND		50.0	60.6		ug/L		121	75 - 138
Bromoform	ND		50.0	46.5		ug/L		93	55 - 153
Bromomethane	ND		50.0	47.0		ug/L		94	13 - 176
2-Butanone	ND		250	241		ug/L		97	45 - 164
sec-Butylbenzene	ND		50.0	59.7		ug/L		119	68 - 159
n-Butylbenzene	ND		50.0	55.0		ug/L		110	67 - 151
tert-Butylbenzene	ND		50.0	58.4		ug/L		117	73 - 153
Carbon disulfide	ND		50.0	54.0		ug/L		108	33 - 187
Carbon Tetrachloride	ND		50.0	65.3		ug/L		131	64 - 157
Chlorobenzene	ND		50.0	55.0		ug/L		110	78 - 136
Chlorodibromomethane	ND		50.0	52.8		ug/L		106	64 - 145
Chloroethane	ND		50.0	55.7		ug/L		111	48 - 159
Chloroform	ND		50.0	58.9		ug/L		118	72 - 145
Chloromethane	ND		50.0	32.2		ug/L		64	10 - 194
2-Chlorotoluene	ND		50.0	54.2		ug/L		108	66 - 155
4-Chlorotoluene	ND		50.0	56.2		ug/L		112	69 - 149
1,2-Dibromo-3-chloropropane	ND		50.0	41.9		ug/L		84	49 - 162
1,2-Dibromoethane (EDB)	ND		50.0	56.4		ug/L		113	70 - 152
Dibromomethane	ND		50.0	54.5		ug/L		109	75 - 141
1,4-Dichlorobenzene	ND		50.0	53.0		ug/L		106	75 - 135
1,3-Dichlorobenzene	ND		50.0	54.8		ug/L		110	72 - 146
1,2-Dichlorobenzene	ND		50.0	54.2		ug/L		108	80 - 136
Dichlorodifluoromethane	ND		50.0	36.1		ug/L		72	23 - 159
1,1-Dichloroethane	ND		50.0	52.0		ug/L		104	64 - 154
1,2-Dichloroethane	ND		50.0	53.0		ug/L		106	72 - 137
cis-1,2-Dichloroethene	ND		50.0	57.4		ug/L		115	57 - 154
1,1-Dichloroethene	ND		50.0	54.3		ug/L		109	34 - 151
trans-1,2-Dichloroethene	ND		50.0	53.5		ug/L		107	57 - 157
1,3-Dichloropropane	ND		50.0	54.3		ug/L		109	71 - 137
1,2-Dichloropropane	ND		50.0	56.6		ug/L		113	71 - 139
2,2-Dichloropropane	ND		50.0	62.1		ug/L		124	10 - 198
cis-1,3-Dichloropropene	ND		50.0	65.3		ug/L		131	56 - 156
trans-1,3-Dichloropropene	ND		50.0	53.7		ug/L		107	47 - 157
1,1-Dichloropropene	ND		50.0	61.2		ug/L		122	70 - 155
Ethylbenzene	ND		50.0	60.1		ug/L		120	68 - 157
Hexachlorobutadiene	ND		50.0	48.9		ug/L		98	47 - 173
2-Hexanone	ND		250	263		ug/L		105	57 - 154
Isopropylbenzene	ND		50.0	67.9		ug/L		136	69 - 139
p-Isopropyltoluene	ND		50.0	57.0		ug/L		114	69 - 151
Methyl tert-Butyl Ether	ND		50.0	47.6		ug/L		95	56 - 152
Methylene Chloride	ND		50.0	53.9		ug/L		108	71 - 136
4-Methyl-2-pentanone	ND		250	274		ug/L		110	62 - 159
Naphthalene	ND		50.0	51.2		ug/L		102	56 - 161
n-Propylbenzene	ND		50.0	57.8		ug/L		116	61 - 167
Styrene	ND		50.0	61.3		ug/L		123	69 - 150

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4109-MS1 **Client Sample ID: Matrix Spike**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010602 **Prep Batch: 11F4109_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	ND		50.0	60.8		ug/L		122	80 - 140
1,1,2,2-Tetrachloroethane	ND		50.0	49.7		ug/L		99	76 - 141
Tetrachloroethene	ND		50.0	60.0		ug/L		120	63 - 155
Toluene	ND		50.0	57.9		ug/L		116	61 - 153
1,2,3-Trichlorobenzene	ND		50.0	48.1		ug/L		96	57 - 155
1,2,4-Trichlorobenzene	ND		50.0	53.2		ug/L		106	64 - 147
1,1,2-Trichloroethane	ND		50.0	53.4		ug/L		107	74 - 138
1,1,1-Trichloroethane	ND		50.0	62.6		ug/L		125	78 - 153
Trichloroethene	ND		50.0	60.5		ug/L		121	74 - 139
Trichlorofluoromethane	ND		50.0	45.6		ug/L		91	53 - 149
1,2,3-Trichloropropane	ND		50.0	49.6		ug/L		99	49 - 148
1,3,5-Trimethylbenzene	ND		50.0	57.9		ug/L		116	67 - 151
1,2,4-Trimethylbenzene	ND		50.0	56.4		ug/L		113	69 - 150
Vinyl chloride	ND		50.0	44.9		ug/L		90	53 - 137
Xylenes, total	ND		150	180		ug/L		120	68 - 158

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*93*		*63 - 140*
Dibromofluoromethane	*101*		*73 - 131*
Toluene-d8	*98*		*80 - 120*
4-Bromofluorobenzene	*96*		*79 - 125*

Lab Sample ID: 11F4109-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010602 **Prep Batch: 11F4109_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	ND		250	253		ug/L		101	56 - 150	1	31
Benzene	ND		50.0	58.8		ug/L		118	65 - 151	0.4	12
Bromobenzene	ND		50.0	54.6		ug/L		109	69 - 142	2	23
Bromochloromethane	ND		50.0	53.1		ug/L		106	64 - 154	0.5	32
Bromodichloromethane	ND		50.0	60.8		ug/L		122	75 - 138	0.4	13
Bromoform	ND		50.0	47.6		ug/L		95	55 - 153	2	18
Bromomethane	ND		50.0	48.0		ug/L		96	13 - 176	2	50
2-Butanone	ND		250	243		ug/L		97	45 - 164	0.9	37
sec-Butylbenzene	ND		50.0	60.8		ug/L		122	68 - 159	2	21
n-Butylbenzene	ND		50.0	56.3		ug/L		113	67 - 151	2	11
tert-Butylbenzene	ND		50.0	59.8		ug/L		120	73 - 153	2	20
Carbon disulfide	ND		50.0	53.7		ug/L		107	33 - 187	0.4	28
Carbon Tetrachloride	ND		50.0	65.0		ug/L		130	64 - 157	0.4	26
Chlorobenzene	ND		50.0	55.2		ug/L		110	78 - 136	0.3	11
Chlorodibromomethane	ND		50.0	53.6		ug/L		107	64 - 145	1	16
Chloroethane	ND		50.0	52.7		ug/L		105	48 - 159	5	35
Chloroform	ND		50.0	58.4		ug/L		117	72 - 145	1	32
Chloromethane	ND		50.0	28.8		ug/L		58	10 - 194	11	34
2-Chlorotoluene	ND		50.0	55.0		ug/L		110	66 - 155	1	22
4-Chlorotoluene	ND		50.0	56.6		ug/L		113	69 - 149	0.8	22
1,2-Dibromo-3-chloropropane	ND		50.0	43.4		ug/L		87	49 - 162	3	21
1,2-Dibromoethane (EDB)	ND		50.0	56.6		ug/L		113	70 - 152	0.4	10

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4109-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010602 **Prep Batch: 11F4109_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dibromomethane	ND		50.0	54.5		ug/L		109	75 - 141	0.06	11
1,4-Dichlorobenzene	ND		50.0	53.4		ug/L		107	75 - 135	0.8	10
1,3-Dichlorobenzene	ND		50.0	55.2		ug/L		110	72 - 146	0.8	18
1,2-Dichlorobenzene	ND		50.0	54.6		ug/L		109	80 - 136	0.7	11
Dichlorodifluoromethane	ND		50.0	35.2		ug/L		70	23 - 159	3	32
1,1-Dichloroethane	ND		50.0	51.5		ug/L		103	64 - 154	1	34
1,2-Dichloroethane	ND		50.0	52.8		ug/L		106	72 - 137	0.4	25
cis-1,2-Dichloroethene	ND		50.0	56.5		ug/L		113	57 - 154	2	32
1,1-Dichloroethene	ND		50.0	53.2		ug/L		106	34 - 151	2	31
trans-1,2-Dichloroethene	ND		50.0	53.1		ug/L		106	57 - 157	0.8	32
1,3-Dichloropropane	ND		50.0	54.3		ug/L		109	71 - 137	0.04	20
1,2-Dichloropropane	ND		50.0	56.6		ug/L		113	71 - 139	0.1	11
2,2-Dichloropropane	ND		50.0	61.0		ug/L		122	10 - 198	2	11
cis-1,3-Dichloropropene	ND		50.0	66.4		ug/L		133	56 - 156	2	35
trans-1,3-Dichloropropene	ND		50.0	54.3		ug/L		109	47 - 157	1	26
1,1-Dichloropropene	ND		50.0	60.7		ug/L		121	70 - 155	0.7	18
Ethylbenzene	ND		50.0	60.7		ug/L		121	68 - 157	1	12
Hexachlorobutadiene	ND		50.0	51.4		ug/L		103	47 - 173	5	21
2-Hexanone	ND		250	269		ug/L		108	57 - 154	2	20
Isopropylbenzene	ND		50.0	68.3		ug/L		137	69 - 139	0.6	15
p-Isopropyltoluene	ND		50.0	58.3		ug/L		117	69 - 151	2	18
Methyl tert-Butyl Ether	ND		50.0	47.6		ug/L		95	56 - 152	0	32
Methylene Chloride	ND		50.0	52.9		ug/L		106	71 - 136	2	36
4-Methyl-2-pentanone	ND		250	279		ug/L		111	62 - 159	2	35
Naphthalene	ND		50.0	53.9		ug/L		108	56 - 161	5	30
n-Propylbenzene	ND		50.0	58.6		ug/L		117	61 - 167	1	23
Styrene	ND		50.0	61.9		ug/L		124	69 - 150	1	29
1,1,1,2-Tetrachloroethane	ND		50.0	61.7		ug/L		123	80 - 140	1	11
1,1,2,2-Tetrachloroethane	ND		50.0	50.7		ug/L		101	76 - 141	2	28
Tetrachloroethene	ND		50.0	60.2		ug/L		120	63 - 155	0.4	16
Toluene	ND		50.0	58.2		ug/L		116	61 - 153	0.5	35
1,2,3-Trichlorobenzene	ND		50.0	50.7		ug/L		101	57 - 155	5	28
1,2,4-Trichlorobenzene	ND		50.0	55.4		ug/L		111	64 - 147	4	23
1,1,2-Trichloroethane	ND		50.0	53.6		ug/L		107	74 - 138	0.4	21
1,1,1-Trichloroethane	ND		50.0	62.6		ug/L		125	78 - 153	0.02	29
Trichloroethene	ND		50.0	60.6		ug/L		121	74 - 139	0.08	11
Trichlorofluoromethane	ND		50.0	44.8		ug/L		90	53 - 149	2	33
1,2,3-Trichloropropane	ND		50.0	50.6		ug/L		101	49 - 148	2	25
1,3,5-Trimethylbenzene	ND		50.0	58.8		ug/L		118	67 - 151	2	21
1,2,4-Trimethylbenzene	ND		50.0	57.4		ug/L		115	69 - 150	2	20
Vinyl chloride	ND		50.0	43.3		ug/L		87	53 - 137	4	32
Xylenes, total	ND		150	181		ug/L		120	68 - 158	0.5	18

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*93*		*63 - 140*
Dibromofluoromethane	*100*		*73 - 131*
Toluene-d8	*99*		*80 - 120*
4-Bromofluorobenzene	*98*		*79 - 125*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Lab Sample ID: 11F3082-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3082 **Prep Batch: 11F3082_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Acenaphthylene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Anthracene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Benzo (a) anthracene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Benzo (a) pyrene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Benzo (b) fluoranthene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Benzo (g,h,i) perylene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Benzo (k) fluoranthene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
4-Bromophenyl phenyl ether	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Butyl benzyl phthalate	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Carbazole	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
4-Chloro-3-methylphenol	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
4-Chloroaniline	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Bis(2-chloroethoxy)methane	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Bis(2-chloroethyl)ether	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Bis(2-chloroisopropyl)ether	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
2-Chloronaphthalene	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
2-Chlorophenol	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
4-Chlorophenyl phenyl ether	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Chrysene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Dibenz (a,h) anthracene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Dibenzofuran	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Di-n-butyl phthalate	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
1,4-Dichlorobenzene	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
1,2-Dichlorobenzene	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
1,3-Dichlorobenzene	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
3,3-Dichlorobenzidine	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
2,4-Dichlorophenol	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Diethyl phthalate	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
2,4-Dimethylphenol	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Dimethyl phthalate	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
4,6-Dinitro-2-methylphenol	ND		25.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
2,4-Dinitrophenol	ND		25.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
2,6-Dinitrotoluene	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
2,4-Dinitrotoluene	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Di-n-octyl phthalate	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Bis(2-ethylhexyl)phthalate	28.2		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Fluoranthene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Fluorene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Hexachlorobenzene	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Hexachlorobutadiene	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Hexachlorocyclopentadiene	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Hexachloroethane	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Indeno (1,2,3-cd) pyrene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Isophorone	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
2-Methylnaphthalene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
2-Methylphenol	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
3/4-Methylphenol	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Naphthalene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3082-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3082 **Prep Batch: 11F3082_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		25.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
2-Nitroaniline	ND		25.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
4-Nitroaniline	ND		25.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Nitrobenzene	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
4-Nitrophenol	ND		25.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
2-Nitrophenol	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
N-Nitrosodiphenylamine	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
N-Nitrosodi-n-propylamine	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Pentachlorophenol	ND		25.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Phenanthrene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Phenol	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
Pyrene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
1,2,4-Trichlorobenzene	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
1-Methylnaphthalene	ND		2.00		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
2,4,6-Trichlorophenol	ND		10.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00
2,4,5-Trichlorophenol	ND		25.0		ug/L		06/14/11 07:40	06/14/11 21:47	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*91*		*13 - 120*	*06/14/11 07:40*	*06/14/11 21:47*	*1.00*
2,4,6-Tribromophenol	*80*		*29 - 132*	*06/14/11 07:40*	*06/14/11 21:47*	*1.00*
Phenol-d5	*24*		*10 - 120*	*06/14/11 07:40*	*06/14/11 21:47*	*1.00*
2-Fluorobiphenyl	*59*		*29 - 120*	*06/14/11 07:40*	*06/14/11 21:47*	*1.00*
2-Fluorophenol	*35*		*10 - 120*	*06/14/11 07:40*	*06/14/11 21:47*	*1.00*
Nitrobenzene-d5	*60*		*27 - 120*	*06/14/11 07:40*	*06/14/11 21:47*	*1.00*

Lab Sample ID: 11F3082-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3082 **Prep Batch: 11F3082_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	50.0	35.2	MNR1	ug/L		70	50 - 120
Acenaphthylene	50.0	31.4	MNR1	ug/L		63	53 - 120
Anthracene	50.0	40.8	MNR1	ug/L		82	63 - 120
Benzo (a) anthracene	50.0	40.6	MNR1	ug/L		81	57 - 122
Benzo (a) pyrene	50.0	40.6	MNR1	ug/L		81	46 - 138
Benzo (b) fluoranthene	50.0	45.5	MNR1	ug/L		91	45 - 138
Benzo (g,h,i) perylene	50.0	39.1	MNR1	ug/L		78	48 - 137
Benzo (k) fluoranthene	50.0	37.5	MNR1	ug/L		75	44 - 134
4-Bromophenyl phenyl ether	50.0	42.7	MNR1	ug/L		85	52 - 120
Butyl benzyl phthalate	50.0	42.6	MNR1	ug/L		85	61 - 133
Carbazole	50.0	42.1	MNR1	ug/L		84	60 - 120
4-Chloro-3-methylphenol	50.0	37.8	MNR1	ug/L		76	49 - 120
4-Chloroaniline	50.0	31.6	MNR1	ug/L		63	39 - 120
Bis(2-chloroethoxy)methane	50.0	32.8	MNR1	ug/L		66	43 - 120
Bis(2-chloroethyl)ether	50.0	35.5	MNR1	ug/L		71	43 - 120
Bis(2-chloroisopropyl)ether	50.0	33.6	MNR1	ug/L		67	45 - 120
2-Chloronaphthalene	50.0	31.6	MNR1	ug/L		63	43 - 120
2-Chlorophenol	50.0	38.2	MNR1	ug/L		76	40 - 120
4-Chlorophenyl phenyl ether	50.0	40.1	MNR1	ug/L		80	56 - 120

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3082-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3082 **Prep Batch: 11F3082_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chrysene	50.0	41.1	MNR1	ug/L		82	54 - 123
Dibenz (a,h) anthracene	50.0	41.7	MNR1	ug/L		83	50 - 136
Dibenzofuran	50.0	37.5	MNR1	ug/L		75	55 - 120
Di-n-butyl phthalate	50.0	40.3	MNR1	ug/L		81	64 - 120
1,4-Dichlorobenzene	50.0	26.3	MNR1	ug/L		53	27 - 120
1,2-Dichlorobenzene	50.0	26.7	MNR1	ug/L		53	29 - 120
1,3-Dichlorobenzene	50.0	26.1	MNR1	ug/L		52	27 - 120
3,3-Dichlorobenzidine	50.0	38.2	MNR1	ug/L		76	49 - 120
2,4-Dichlorophenol	50.0	33.8	MNR1	ug/L		68	39 - 120
Diethyl phthalate	50.0	39.9	MNR1	ug/L		80	53 - 120
2,4-Dimethylphenol	50.0	34.2	MNR1	ug/L		68	28 - 123
Dimethyl phthalate	50.0	40.6	MNR1	ug/L		81	59 - 120
4,6-Dinitro-2-methylphenol	50.0	24.7	MNR1	ug/L		49	35 - 132
2,4-Dinitrophenol	50.0	20.4	MNR1	ug/L		41	21 - 145
2,6-Dinitrotoluene	50.0	39.6	MNR1	ug/L		79	62 - 123
2,4-Dinitrotoluene	50.0	38.8	MNR1	ug/L		78	61 - 124
Di-n-octyl phthalate	50.0	47.2	MNR1	ug/L		94	51 - 141
Bis(2-ethylhexyl)phthalate	50.0	44.7	MNR1 B	ug/L		89	54 - 134
Fluoranthene	50.0	34.5	MNR1	ug/L		69	62 - 120
Fluorene	50.0	39.8	MNR1	ug/L		80	58 - 120
Hexachlorobenzene	50.0	45.1	MNR1	ug/L		90	60 - 120
Hexachlorobutadiene	50.0	29.2	MNR1	ug/L		58	24 - 120
Hexachlorocyclopentadiene	50.0	12.4	MNR1	ug/L		25	19 - 120
Hexachloroethane	50.0	30.4	MNR1	ug/L		61	26 - 120
Indeno (1,2,3-cd) pyrene	50.0	41.1	MNR1	ug/L		82	50 - 136
Isophorone	50.0	30.6	MNR1	ug/L		61	46 - 120
2-Methylnaphthalene	50.0	28.3	MNR1	ug/L		57	34 - 120
2-Methylphenol	50.0	31.7	MNR1	ug/L		63	38 - 120
3/4-Methylphenol	50.0	29.9	MNR1	ug/L		60	34 - 120
Naphthalene	50.0	28.8	MNR1	ug/L		58	32 - 120
3-Nitroaniline	50.0	40.8	MNR1	ug/L		82	54 - 120
2-Nitroaniline	50.0	41.8	MNR1	ug/L		84	59 - 121
4-Nitroaniline	50.0	41.1	MNR1	ug/L		82	55 - 124
Nitrobenzene	50.0	29.2	MNR1	ug/L		58	44 - 120
4-Nitrophenol	50.0	19.8	MNR1	ug/L		40	10 - 120
2-Nitrophenol	50.0	33.0	MNR1	ug/L		66	42 - 120
N-Nitrosodiphenylamine	50.0	50.6	MNR1	ug/L		101	59 - 120
N-Nitrosodi-n-propylamine	50.0	39.5	MNR1	ug/L		79	50 - 121
Pentachlorophenol	50.0	55.4	MNR1	ug/L		111	36 - 143
Phenanthrene	50.0	41.7	MNR1	ug/L		83	60 - 120
Phenol	50.0	17.4	MNR1	ug/L		35	10 - 120
Pyrene	50.0	41.5	MNR1	ug/L		83	57 - 124
1,2,4-Trichlorobenzene	50.0	24.2		ug/L		48	27 - 120
1-Methylnaphthalene	50.0	26.1		ug/L		52	34 - 120
2,4,6-Trichlorophenol	50.0	41.6		ug/L		83	48 - 125
2,4,5-Trichlorophenol	50.0	38.5		ug/L		77	51 - 125

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*84*		*13 - 120*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3082-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3082 **Prep Batch: 11F3082_P**

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*77*		*29 - 132*
Phenol-d5	*30*		*10 - 120*
2-Fluorobiphenyl	*65*		*29 - 120*
2-Fluorophenol	*38*		*10 - 120*
Nitrobenzene-d5	*58*		*27 - 120*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons

Lab Sample ID: 11F3777-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010538 **Prep Batch: 11F3777_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		100		ug/L		06/14/11 00:00	06/14/11 23:09	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*105*		*60 - 150*	*06/14/11 00:00*	*06/14/11 23:09*	*1.00*

Lab Sample ID: 11F3777-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010538 **Prep Batch: 11F3777_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
GRO as Gasoline			1000	948		ug/L		95	64 - 134		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*118*		*60 - 150*

Lab Sample ID: 11F3777-MS1 **Client Sample ID: Matrix Spike**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010538 **Prep Batch: 11F3777_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
GRO as Gasoline	ND		1000	810		ug/L		81	49 - 161		

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*112*		*60 - 150*

Lab Sample ID: 11F3777-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010538 **Prep Batch: 11F3777_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
GRO as Gasoline	ND		1000	951		ug/L		95	49 - 161	16	33

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*116*		*60 - 150*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 11F3777-DUP1 **Client Sample ID: Duplicate**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010538 **Prep Batch: 11F3777_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
GRO as Gasoline	ND			ND		ug/L					33

Surrogate	*Duplicate % Recovery*	*Duplicate Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*108*		*60 - 150*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Lab Sample ID: 11F3084-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010436 **Prep Batch: 11F3084_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		100		ug/L		06/13/11 09:40	06/13/11 19:50	1.00
TPH - Oil Range	ND		100		ug/L		06/13/11 09:40	06/13/11 19:50	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*53 - 140*	*06/13/11 09:40*	*06/13/11 19:50*	*1.00*

Lab Sample ID: 11F3084-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010436 **Prep Batch: 11F3084_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Diesel			1000	672	MNR1	ug/L		67	55 - 130		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*79*		*53 - 140*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Lab Sample ID: 11F3086-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010366 **Prep Batch: 11F3086_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500		ug/L		06/13/11 09:40	06/13/11 18:15	1.00
PCB-1221	ND		0.500		ug/L		06/13/11 09:40	06/13/11 18:15	1.00
PCB-1232	ND		0.500		ug/L		06/13/11 09:40	06/13/11 18:15	1.00
PCB-1242	ND		0.500		ug/L		06/13/11 09:40	06/13/11 18:15	1.00
PCB-1248	ND		0.500		ug/L		06/13/11 09:40	06/13/11 18:15	1.00
PCB-1254	ND		0.500		ug/L		06/13/11 09:40	06/13/11 18:15	1.00
PCB-1260	ND		0.500		ug/L		06/13/11 09:40	06/13/11 18:15	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*67*		*17 - 142*	*06/13/11 09:40*	*06/13/11 18:15*	*1.00*
Decachlorobiphenyl	*87*		*10 - 149*	*06/13/11 09:40*	*06/13/11 18:15*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A (Continued)

Lab Sample ID: 11F3086-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010366 **Prep Batch: 11F3086_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
PCB-1016	5.00	3.43	MNR1	ug/L		69	63 - 120
PCB-1260	5.00	4.24	MNR1	ug/L		85	36 - 138

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-meta-xylene	*58*		*17 - 142*
Decachlorobiphenyl	*76*		*10 - 149*

Lab Sample ID: 11F3214-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010366 **Prep Batch: 11F3214_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500		ug/L		06/13/11 12:30	06/13/11 20:26	1.00
PCB-1221	ND		0.500		ug/L		06/13/11 12:30	06/13/11 20:26	1.00
PCB-1232	ND		0.500		ug/L		06/13/11 12:30	06/13/11 20:26	1.00
PCB-1242	ND		0.500		ug/L		06/13/11 12:30	06/13/11 20:26	1.00
PCB-1248	ND		0.500		ug/L		06/13/11 12:30	06/13/11 20:26	1.00
PCB-1254	ND		0.500		ug/L		06/13/11 12:30	06/13/11 20:26	1.00
PCB-1260	ND		0.500		ug/L		06/13/11 12:30	06/13/11 20:26	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*72*		*17 - 142*	*06/13/11 12:30*	*06/13/11 20:26*	*1.00*
Decachlorobiphenyl	*76*		*10 - 149*	*06/13/11 12:30*	*06/13/11 20:26*	*1.00*

Lab Sample ID: 11F3214-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010366 **Prep Batch: 11F3214_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
PCB-1016	5.00	3.88	MNR1	ug/L		78	63 - 120
PCB-1260	5.00	4.46	MNR1	ug/L		89	36 - 138

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-meta-xylene	*78*		*17 - 142*
Decachlorobiphenyl	*93*		*10 - 149*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Lab Sample ID: 11F3422-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3422 **Prep Batch: 11F3422_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 10:52	1.00
Barium	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 10:52	1.00
Cadmium	ND		0.00100		mg/L		06/15/11 06:20	06/15/11 10:52	1.00
Chromium	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 10:52	1.00
Lead	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 10:52	1.00

Method: SW846 6010B - Total Metals by EPA Method 6010B (Continued)

Lab Sample ID: 11F3422-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3422 **Prep Batch: 11F3422_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 10:52	1.00
Silver	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 10:52	1.00

Lab Sample ID: 11F3422-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3422 **Prep Batch: 11F3422_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	0.0500	0.0477		mg/L		95	80 - 120
Barium	2.00	2.17		mg/L		109	80 - 120
Cadmium	0.0500	0.0512		mg/L		102	80 - 120
Chromium	0.200	0.208		mg/L		104	80 - 120
Lead	0.0500	0.0534		mg/L		107	80 - 120
Selenium	0.0500	0.0574		mg/L		115	80 - 120
Silver	0.0500	0.0509		mg/L		102	80 - 120

Lab Sample ID: 11F3422-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3422 **Prep Batch: 11F3422_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	0.0500	0.0504		mg/L		101	80 - 120	6	20
Barium	2.00	2.24		mg/L		112	80 - 120	3	20
Cadmium	0.0500	0.0519		mg/L		104	80 - 120	1	20
Chromium	0.200	0.211		mg/L		105	80 - 120	1	20
Lead	0.0500	0.0548		mg/L		110	80 - 120	3	20
Selenium	0.0500	0.0565		mg/L		113	80 - 120	2	20
Silver	0.0500	0.0530		mg/L		106	80 - 120	4	20

Lab Sample ID: 11F3422-MS1 **Client Sample ID: Matrix Spike**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3422 **Prep Batch: 11F3422_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	0.0730		0.0500	0.129		mg/L		112	75 - 125
Barium	ND		2.00	2.06		mg/L		103	75 - 125
Cadmium	ND		0.0500	0.0508		mg/L		102	75 - 125
Chromium	ND		0.200	0.205		mg/L		102	75 - 125
Lead	ND		0.0500	0.0514		mg/L		103	75 - 125
Selenium	0.0154		0.0500	0.0638		mg/L		97	75 - 125
Silver	ND		0.0500	0.0613		mg/L		123	75 - 125

Lab Sample ID: 11F3422-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3422 **Prep Batch: 11F3422_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	0.0730		0.0500	0.134		mg/L		121	75 - 125	4	20
Barium	ND		2.00	2.06		mg/L		103	75 - 125	0.1	20
Cadmium	ND		0.0500	0.0510		mg/L		102	75 - 125	0.4	20
Chromium	ND		0.200	0.205		mg/L		103	75 - 125	0.3	20

Method: SW846 6010B - Total Metals by EPA Method 6010B (Continued)

Lab Sample ID: 11F3422-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3422 **Prep Batch: 11F3422_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Lead	ND		0.0500	0.0518		mg/L		104	75 - 125	0.8	20
Selenium	0.0154		0.0500	0.0653		mg/L		100	75 - 125	2	20
Silver	ND		0.0500	0.0613		mg/L		123	75 - 125	0	20

Method: SW846 7470A - Mercury by EPA Methods 7470A/7471A

Lab Sample ID: 11F3109-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3109 **Prep Batch: 11F3109_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/13/11 11:10	06/13/11 16:27	1.00

Lab Sample ID: 11F3109-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3109 **Prep Batch: 11F3109_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.00100	0.000959		mg/L		96	80 - 120

Lab Sample ID: 11F3109-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3109 **Prep Batch: 11F3109_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.00100	0.000956		mg/L		96	80 - 120	0.3	20

Lab Sample ID: 11F3109-MS1 **Client Sample ID: Matrix Spike**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3109 **Prep Batch: 11F3109_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	ND		0.00100	0.000940		mg/L		94	75 - 125

Lab Sample ID: 11F3109-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3109 **Prep Batch: 11F3109_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.000968		mg/L		97	75 - 125	3	20

QC Association Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1681

GCMS Volatiles

Analysis Batch: U010431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3496-BS1	Lab Control Sample	Total	Water	SW846 8260B	11F3496_P
11F3496-BSD1	Lab Control Sample Dup	Total	Water	SW846 8260B	11F3496_P
11F3496-BLK1	Method Blank	Total	Water	SW846 8260B	11F3496_P
NUF1681-01	S W D G	Total	Water	SW846 8260B	11F3496_P
NUF1681-02	F-UG	Total	Water	SW846 8260B	11F3496_P
11F3496-MS1	Matrix Spike	Total	Water	SW846 8260B	11F3496_P
11F3496-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11F3496_P

Analysis Batch: U010602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4109-BS1	Lab Control Sample	Total	Water	SW846 8260B	11F4109_P
11F4109-BSD1	Lab Control Sample Dup	Total	Water	SW846 8260B	11F4109_P
11F4109-BLK1	Method Blank	Total	Water	SW846 8260B	11F4109_P
NUF1681-03	F-07	Total	Water	SW846 8260B	11F4109_P
11F4109-MS1	Matrix Spike	Total	Water	SW846 8260B	11F4109_P
11F4109-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11F4109_P

Prep Batch: 11F3496_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3496-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11F3496-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B	
11F3496-BLK1	Method Blank	Total	Water	EPA 5030B	
NUF1681-01	S W D G	Total	Water	EPA 5030B	
NUF1681-02	F-UG	Total	Water	EPA 5030B	
11F3496-MS1	Matrix Spike	Total	Water	EPA 5030B	
11F3496-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	

Prep Batch: 11F4109_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4109-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11F4109-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B	
11F4109-BLK1	Method Blank	Total	Water	EPA 5030B	
NUF1681-03	F-07	Total	Water	EPA 5030B	
11F4109-MS1	Matrix Spike	Total	Water	EPA 5030B	
11F4109-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	

GCMS Semivolatiles

Analysis Batch: 11F3082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3082-BS1	Lab Control Sample	Total	Water	SW846 8270D	11F3082_P
11F3082-BLK1	Method Blank	Total	Water	SW846 8270D	11F3082_P
NUF1681-01	S W D G	Total	Water	SW846 8270D	11F3082_P
NUF1681-03	F-07	Total	Water	SW846 8270D	11F3082_P

Prep Batch: 11F3082_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3082-BS1	Lab Control Sample	Total	Water	EPA 3510C	
11F3082-BLK1	Method Blank	Total	Water	EPA 3510C	
NUF1681-01	S W D G	Total	Water	EPA 3510C	
NUF1681-03	F-07	Total	Water	EPA 3510C	

QC Association Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1681

GC Volatiles

Analysis Batch: U010538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3777-BLK1	Method Blank	Total	Water	SW846 8015B	11F3777_P
NUF1681-01	S W D G	Total	Water	SW846 8015B	11F3777_P
NUF1681-02	F-UG	Total	Water	SW846 8015B	11F3777_P
NUF1681-03	F-07	Total	Water	SW846 8015B	11F3777_P
11F3777-BS1	Lab Control Sample	Total	Water	SW846 8015B	11F3777_P
11F3777-MS1	Matrix Spike	Total	Water	SW846 8015B	11F3777_P
11F3777-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8015B	11F3777_P
11F3777-DUP1	Duplicate	Total	Water	SW846 8015B	11F3777_P

Prep Batch: 11F3777_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3777-BLK1	Method Blank	Total	Water	EPA 5030B (GC)	
NUF1681-01	S W D G	Total	Water	EPA 5030B (GC)	
NUF1681-02	F-UG	Total	Water	EPA 5030B (GC)	
NUF1681-03	F-07	Total	Water	EPA 5030B (GC)	
11F3777-BS1	Lab Control Sample	Total	Water	EPA 5030B (GC)	
11F3777-MS1	Matrix Spike	Total	Water	EPA 5030B (GC)	
11F3777-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B (GC)	
11F3777-DUP1	Duplicate	Total	Water	EPA 5030B (GC)	

GC Semivolatiles

Analysis Batch: U010436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3084-BLK1	Method Blank	Total	Water	SW846 8015B	11F3084_P
11F3084-BS1	Lab Control Sample	Total	Water	SW846 8015B	11F3084_P
NUF1681-01	S W D G	Total	Water	SW846 8015B	11F3084_P
NUF1681-03	F-07	Total	Water	SW846 8015B	11F3084_P

Prep Batch: 11F3084_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3084-BLK1	Method Blank	Total	Water	EPA 3510C	
11F3084-BS1	Lab Control Sample	Total	Water	EPA 3510C	
NUF1681-01	S W D G	Total	Water	EPA 3510C	
NUF1681-03	F-07	Total	Water	EPA 3510C	

Pesticides

Analysis Batch: U010366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3086-BLK1	Method Blank	Total	Water	SW846 8082A	11F3086_P
11F3086-BS1	Lab Control Sample	Total	Water	SW846 8082A	11F3086_P
NUF1681-01	S W D G	Total	Water	SW846 8082A	11F3086_P
NUF1681-03	F-07	Total	Water	SW846 8082A	11F3086_P
11F3214-BLK1	Method Blank	Total	Water	SW846 8082A	11F3214_P
11F3214-BS1	Lab Control Sample	Total	Water	SW846 8082A	11F3214_P
NUF1681-02	F-UG	Total	Water	SW846 8082A	11F3214_P

Pesticides (Continued)

Prep Batch: 11F3086_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3086-BLK1	Method Blank	Total	Water	EPA 3510C/3665A	
11F3086-BS1	Lab Control Sample	Total	Water	EPA 3510C/3665A	
NUF1681-01	S W D G	Total	Water	EPA 3510C/3665A	
NUF1681-03	F-07	Total	Water	EPA 3510C/3665A	

Prep Batch: 11F3214_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3214-BLK1	Method Blank	Total	Water	EPA 3510C/3665A	
11F3214-BS1	Lab Control Sample	Total	Water	EPA 3510C/3665A	
NUF1681-02	F-UG	Total	Water	EPA 3510C/3665A	

Metals

Analysis Batch: 11F3109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3109-BLK1	Method Blank	Total	Water	SW846 7470A	11F3109_P
11F3109-BS1	Lab Control Sample	Total	Water	SW846 7470A	11F3109_P
11F3109-BSD1	Lab Control Sample Dup	Total	Water	SW846 7470A	11F3109_P
11F3109-MS1	Matrix Spike	Total	Water	SW846 7470A	11F3109_P
11F3109-MSD1	Matrix Spike Duplicate	Total	Water	SW846 7470A	11F3109_P
NUF1681-01	S W D G	Total	Water	SW846 7470A	11F3109_P
NUF1681-02	F-UG	Total	Water	SW846 7470A	11F3109_P
NUF1681-03	F-07	Total	Water	SW846 7470A	11F3109_P

Analysis Batch: 11F3422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3422-BLK1	Method Blank	Total	Water	SW846 6010B	11F3422_P
11F3422-BS1	Lab Control Sample	Total	Water	SW846 6010B	11F3422_P
11F3422-BSD1	Lab Control Sample Dup	Total	Water	SW846 6010B	11F3422_P
11F3422-MS1	Matrix Spike	Total	Water	SW846 6010B	11F3422_P
11F3422-MSD1	Matrix Spike Duplicate	Total	Water	SW846 6010B	11F3422_P
NUF1681-01	S W D G	Total	Water	SW846 6010B	11F3422_P
NUF1681-02	F-UG	Total	Water	SW846 6010B	11F3422_P
NUF1681-03	F-07	Total	Water	SW846 6010B	11F3422_P

Prep Batch: 11F3109_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3109-BLK1	Method Blank	Total	Water	EPA 7470	
11F3109-BS1	Lab Control Sample	Total	Water	EPA 7470	
11F3109-BSD1	Lab Control Sample Dup	Total	Water	EPA 7470	
11F3109-MS1	Matrix Spike	Total	Water	EPA 7470	
11F3109-MSD1	Matrix Spike Duplicate	Total	Water	EPA 7470	
NUF1681-01	S W D G	Total	Water	EPA 7470	
NUF1681-02	F-UG	Total	Water	EPA 7470	
NUF1681-03	F-07	Total	Water	EPA 7470	

Metals (Continued)

Prep Batch: 11F3422_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3422-BLK1	Method Blank	Total	Water	EPA 3010A / 6010	
11F3422-BS1	Lab Control Sample	Total	Water	EPA 3010A / 6010	
11F3422-BSD1	Lab Control Sample Dup	Total	Water	EPA 3010A / 6010	
11F3422-MS1	Matrix Spike	Total	Water	EPA 3010A / 6010	
11F3422-MSD1	Matrix Spike Duplicate	Total	Water	EPA 3010A / 6010	
NUF1681-01	S W D G	Total	Water	EPA 3010A / 6010	
NUF1681-02	F-UG	Total	Water	EPA 3010A / 6010	
NUF1681-03	F-07	Total	Water	EPA 3010A / 6010	

Client Sample ID: S W D G — Lab Sample ID: NUF1681-01

Date Collected: 06/08/11 15:00 — **Matrix: Water**

Date Received: 06/09/11 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11F3496_P	06/13/11 09:51	EML	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010431	06/13/11 17:23	EML	TAL NSH
Total	Prep	EPA 3510C		1.00	11F3082_P	06/12/11 13:30	KDJ	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3082	06/14/11 22:07	BES	TAL NSH
Total	Prep	EPA 5030B (GC)		1.00	11F3777_P	06/14/11 16:06	GWM	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010538	06/15/11 00:39	GWM	TAL NSH
Total	Prep	EPA 3510C		0.962	11F3084_P	06/13/11 09:40	AMJ	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010436	06/13/11 20:39	KKH	TAL NSH
Total	Prep	EPA 3510C/3665A		0.971	11F3086_P	06/13/11 09:40	RCH2	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010366	06/13/11 18:58	RMC	TAL NSH
Total	Prep	EPA 3010A / 6010		1.00	11F3422_P	06/15/11 06:20	ALJ	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3422	06/15/11 11:52	LTB	TAL NSH
Total	Prep	EPA 7470		1.00	11F3109_P	06/13/11 11:10	DEB	TAL NSH
Total	Analysis	SW846 7470A		1.00	11F3109	06/13/11 16:57	DEB	TAL NSH

Client Sample ID: F-UG — Lab Sample ID: NUF1681-02

Date Collected: 06/08/11 09:00 — **Matrix: Water**

Date Received: 06/09/11 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11F3496_P	06/13/11 09:51	EML	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010431	06/13/11 17:52	EML	TAL NSH
Total	Prep	EPA 5030B (GC)		1.00	11F3777_P	06/14/11 16:06	GWM	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010538	06/15/11 01:09	GWM	TAL NSH
Total	Prep	EPA 3510C/3665A		3.33	11F3214_P	06/13/11 12:30	KDJ	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010366	06/13/11 21:10	RMC	TAL NSH
Total	Prep	EPA 3010A / 6010		1.00	11F3422_P	06/15/11 06:20	ALJ	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3422	06/15/11 11:55	LTB	TAL NSH
Total	Prep	EPA 7470		1.00	11F3109_P	06/13/11 11:10	DEB	TAL NSH
Total	Analysis	SW846 7470A		1.00	11F3109	06/13/11 16:59	DEB	TAL NSH

Client Sample ID: F-07 — Lab Sample ID: NUF1681-03

Date Collected: 06/08/11 11:00 — **Matrix: Water**

Date Received: 06/09/11 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11F4109_P	06/15/11 09:17	EML	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010602	06/15/11 13:31	EML	TAL NSH
Total	Prep	EPA 3510C		0.943	11F3082_P	06/12/11 13:30	KDJ	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3082	06/14/11 22:28	BES	TAL NSH
Total	Prep	EPA 5030B (GC)		1.00	11F3777_P	06/14/11 16:06	GWM	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010538	06/15/11 01:39	GWM	TAL NSH
Total	Prep	EPA 3510C		0.971	11F3084_P	06/13/11 09:40	AMJ	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010436	06/13/11 20:55	KKH	TAL NSH
Total	Prep	EPA 3510C/3665A		0.971	11F3086_P	06/13/11 09:40	RCH2	TAL NSH

Lab Chronicle

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1681

Client Sample ID: F-07

Date Collected: 06/08/11 11:00
Date Received: 06/09/11 08:55

Lab Sample ID: NUF1681-03

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Analysis	SW846 8082A		1.00	U010366	06/13/11 19:20	RMC	TAL NSH
Total	Prep	EPA 3010A / 6010		1.00	11F3422_P	06/15/11 06:20	ALJ	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3422	06/15/11 11:59	LTB	TAL NSH
Total	Prep	EPA 7470		1.00	11F3109_P	06/13/11 11:10	DEB	TAL NSH
Total	Analysis	SW846 7470A		1.00	11F3109	06/13/11 17:02	DEB	TAL NSH

Laboratory References:
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1681

Method	Method Description	Protocol	Laboratory
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
SW846 8270D	Semivolatile Organic Compounds by EPA Method 8270D		TAL NSH
SW846 8015B	Purgeable Petroleum Hydrocarbons		TAL NSH
SW846 8015B	Extractable Petroleum Hydrocarbons		TAL NSH
SW846 8082A	Polychlorinated Biphenyls by EPA Method 8082A		TAL NSH
SW846 6010B	Total Metals by EPA Method 6010B		TAL NSH
SW846 7470A	Mercury by EPA Methods 7470A/7471A		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1681

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025	0	0453.07
TestAmerica Nashville	A2LA	WY UST	0	453.07
TestAmerica Nashville	AIHA	AIHA	0	100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA	0	3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA	0	S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECE

NUF1681

Cooler Received/Opened On 6/9/2011 @ 0855

1. Tracking # 0074 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 11.6 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..NA

4. Were custody seals on outside of cooler? YES..NO..NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# 54912

* TEMP. NOT ENOUGH SAMPLE FOR "F-LIG" TO RUN ALL ANALYSIS
TPH METHOD?

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

NUF1681
06/20/11 23:59

Chain of Custody Record

210 West Sand Bank Road
Columbia, IL 62236
(618) 281-7173 Phone
(618) 281-7020 Fax

COC Serial No. 10899 ___ OF ___

Project Name: SB i Festus Project Mgr.: JC
Project Number: 624-1104-0030 Cost Code: J0003
Sampler(s): STAN
Laboratory Name:
Location:

Laboratory Temperature upon Receipt: ___

Sample ID (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	VOC	SVOC	RCRA	Metals	TPH	PCB		MS/MSD	Comments (Field PID)	Lab ID #'s
SW DG	6-8-11	1500	X					8	X	X	X	X	X	X		-01		
F-UG	6-8-11	0900	X					5	X	X	X	X	X	X		-02		
F--07	6-8-11	1100	X					8	X	X	X	X	X	X		-03		

Samples Iced: ☒ Yes ☐ No

Preservatives
- ☐ Volatile Organics ..... Hydrochloric acid (HCl)
- ☐ VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- ☐ TPH ..... Hydrochloric acid and/or Sulfuric acid
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ Cyanide ..... Sodium hydroxide (NaOH)
- ☐ Other (Specify) ..... ___

Lab Directives:
Requested TAT: ☐ 24-Hour ☐ 2-3 Days ☒ STD ☐ Other ___
E-mail and/or Mail Results to: JCarrow@PSCNOW.com
Send Invoice to: Same
QC Deliverable Requested: ☒ Full QC & Limits ☐ CLP-LIKE ☐ EDD ☐ Other ___
Special Guidelines: ___
Reporting Limits: ___
* Special: ___

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
St Dr L	6-8-11	1400

Received by:

Signature	Date	Time
[illegible]	6/9/11	855

Distribution: WHITE to Lab CANARY to PM
PE-179 (9/10)

Shaded Areas to be Completed by Lab

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUF1686
Client Project/Site: [none]
Client Project Description: Festus, Missouri

For:
PSC Industrial Outsourcing LP (3797)
210 West Sand Bank Rd.
Columbia, IL 62236

Attn: Al Becker

Madonna Myers

Authorized for release by:
06/21/2011 11:58:56 AM

Madonna Myers
Project Manager
madonna.myers@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Sample Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1686

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUF1686-01	F-04B(2-3')	Soil	06/08/11 09:55	06/10/11 08:55
NUF1686-02	F-04B(8-9')	Soil	06/08/11 10:00	06/10/11 08:55
NUF1686-03	F-05A(0-1')	Soil	06/08/11 12:35	06/10/11 08:55
NUF1686-04	F-05B(0-1')	Soil	06/08/11 12:35	06/10/11 08:55
NUF1686-05	F-03A(1-3')	Soil	06/08/11 13:40	06/10/11 08:55
NUF1686-06	F-03A(4-5')	Soil	06/08/11 13:35	06/10/11 08:55
NUF1686-07	F-IDW	Soil	06/08/11 12:00	06/10/11 08:55

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
PX	Sample for VOA analysis not received in preserved VOA vials or Encore or similar sampling device.
RL1	Reporting limit raised due to sample matrix effects.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

GC Semivolatiles

Qualifier	Qualifier Description
M3	Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
MNR	No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Pesticides

Qualifier	Qualifier Description
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Metals

Qualifier	Qualifier Description
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
R3	The RPD exceeded the acceptance limit due to sample matrix effects.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1686

Client Sample ID: F-04B(2-3')

Date Collected: 06/08/11 09:55
Date Received: 06/10/11 08:55

Lab Sample ID: NUF1686-01

Matrix: Soil
Percent Solids: 82.7

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.151**	**PX**	0.0548		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Benzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Bromobenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Bromochloromethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Bromodichloromethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Bromoform	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Bromomethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00548		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
2-Butanone	ND	PX	0.0548		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
sec-Butylbenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
n-Butylbenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
tert-Butylbenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Carbon disulfide	ND	PX	0.00548		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Carbon Tetrachloride	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Chlorobenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Chlorodibromomethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Chloroethane	ND	PX	0.00548		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Chloroform	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Chloromethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
2-Chlorotoluene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
4-Chlorotoluene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Dibromomethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,4-Dichlorobenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,3-Dichlorobenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,2-Dichlorobenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Dichlorodifluoromethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,1-Dichloroethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,2-Dichloroethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
cis-1,2-Dichloroethene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,1-Dichloroethene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
trans-1,2-Dichloroethene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,3-Dichloropropane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,2-Dichloropropane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
2,2-Dichloropropane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
cis-1,3-Dichloropropene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
trans-1,3-Dichloropropene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,1-Dichloropropene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Ethylbenzene	**0.00510**	**PX**	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Hexachlorobutadiene	ND	PX	0.00548		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
2-Hexanone	ND	PX	0.0548		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Isopropylbenzene	ND	L PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
p-Isopropyltoluene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Methyl tert-Butyl Ether	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Methylene Chloride	ND	PX	0.0110		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
4-Methyl-2-pentanone	ND	PX	0.0548		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Naphthalene	ND	PX	0.00548		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
n-Propylbenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Styrene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00

Client Sample ID: F-04B(2-3') Lab Sample ID: NUF1686-01

Date Collected: 06/08/11 09:55 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 82.7**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Tetrachloroethene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Toluene	**0.0126**	**PX**	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,2,3-Trichlorobenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,2,4-Trichlorobenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,1,2-Trichloroethane	ND	PX	0.00548		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,1,1-Trichloroethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Trichloroethene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Trichlorofluoromethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,2,3-Trichloropropane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,3,5-Trimethylbenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
1,2,4-Trimethylbenzene	**0.00382**	**PX**	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Vinyl chloride	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00
Xylenes, total	**0.00675**	**PX**	0.00548		mg/kg dry	☼	06/14/11 17:40	06/16/11 19:06	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*101*		*67 - 138*	*06/14/11 17:40*	*06/16/11 19:06*	*1.00*
Dibromofluoromethane	*98*		*75 - 125*	*06/14/11 17:40*	*06/16/11 19:06*	*1.00*
Toluene-d8	*108*		*76 - 129*	*06/14/11 17:40*	*06/16/11 19:06*	*1.00*
4-Bromofluorobenzene	*121*		*67 - 147*	*06/14/11 17:40*	*06/16/11 19:06*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Acenaphthylene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Anthracene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Benzo (a) anthracene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Benzo (a) pyrene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Benzo (b) fluoranthene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Benzo (g,h,i) perylene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Benzo (k) fluoranthene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
4-Bromophenyl phenyl ether	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Butyl benzyl phthalate	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Carbazole	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
4-Chloro-3-methylphenol	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
4-Chloroaniline	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Bis(2-chloroethoxy)methane	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Bis(2-chloroethyl)ether	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Bis(2-chloroisopropyl)ether	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
2-Chloronaphthalene	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
2-Chlorophenol	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
4-Chlorophenyl phenyl ether	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Chrysene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Dibenz (a,h) anthracene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Dibenzofuran	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Di-n-butyl phthalate	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
1,4-Dichlorobenzene	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
1,2-Dichlorobenzene	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
1,3-Dichlorobenzene	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
3,3-Dichlorobenzidine	ND		0.794		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
2,4-Dichlorophenol	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00

Client Sample ID: F-04B(2-3') Lab Sample ID: NUF1686-01

Date Collected: 06/08/11 09:55 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 82.7**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
2,4-Dimethylphenol	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Dimethyl phthalate	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
4,6-Dinitro-2-methylphenol	ND		0.992		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
2,4-Dinitrophenol	ND		0.992		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
2,6-Dinitrotoluene	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
2,4-Dinitrotoluene	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Di-n-octyl phthalate	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Bis(2-ethylhexyl)phthalate	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Fluoranthene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Fluorene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Hexachlorobenzene	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Hexachlorobutadiene	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Hexachlorocyclopentadiene	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Hexachloroethane	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Isophorone	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
2-Methylnaphthalene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
2-Methylphenol	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
3/4-Methylphenol	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Naphthalene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
3-Nitroaniline	ND		0.992		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
2-Nitroaniline	ND		0.992		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
4-Nitroaniline	ND		0.992		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Nitrobenzene	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
4-Nitrophenol	ND		0.992		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
2-Nitrophenol	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
N-Nitrosodiphenylamine	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
N-Nitrosodi-n-propylamine	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Pentachlorophenol	ND		0.992		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Phenanthrene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Phenol	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
Pyrene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
1,2,4-Trichlorobenzene	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
1-Methylnaphthalene	ND		0.0798		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
2,4,6-Trichlorophenol	ND		0.396		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00
2,4,5-Trichlorophenol	ND		0.992		mg/kg dry	☼	06/13/11 14:35	06/14/11 18:45	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*89*		*18 - 120*	*06/13/11 14:35*	*06/14/11 18:45*	*1.00*
2,4,6-Tribromophenol	*68*		*19 - 120*	*06/13/11 14:35*	*06/14/11 18:45*	*1.00*
Phenol-d5	*70*		*18 - 120*	*06/13/11 14:35*	*06/14/11 18:45*	*1.00*
2-Fluorobiphenyl	*67*		*14 - 120*	*06/13/11 14:35*	*06/14/11 18:45*	*1.00*
2-Fluorophenol	*69*		*17 - 120*	*06/13/11 14:35*	*06/14/11 18:45*	*1.00*
Nitrobenzene-d5	*69*		*17 - 120*	*06/13/11 14:35*	*06/14/11 18:45*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**121**		4.76		mg/kg dry	☼	06/14/11 09:35	06/16/11 07:27	1.00

Client Sample ID: F-04B(2-3') Lab Sample ID: NUF1686-01

Date Collected: 06/08/11 09:55 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 82.7**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*53 - 140*	*06/14/11 09:35*	*06/16/11 07:27*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH - Oil Range	**381**		19.0		mg/kg dry	☼	06/14/11 09:35	06/17/11 05:07	4.00

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0400		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:10	1.00
PCB-1221	ND		0.0400		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:10	1.00
PCB-1232	ND		0.0400		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:10	1.00
PCB-1242	ND		0.0400		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:10	1.00
PCB-1248	ND		0.0400		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:10	1.00
PCB-1254	ND		0.0400		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:10	1.00
PCB-1260	**0.210**		0.0400		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:10	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*86*		*19 - 147*	*06/14/11 07:35*	*06/14/11 20:10*	*1.00*
Decachlorobiphenyl	*150*		*20 - 150*	*06/14/11 07:35*	*06/14/11 20:10*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.29**		1.15		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:17	1.00
Barium	**218**		2.30		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:17	1.00
Cadmium	**2.65**		1.15		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:17	1.00
Chromium	**23.2**		1.15		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:17	1.00
Lead	**203**	**MHA**	1.15		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:17	1.00
Selenium	**2.35**		2.30		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:17	1.00
Silver	ND		1.15		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:17	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.32**	**M8**	0.12		mg/kg dry	☼	06/13/11 15:40	06/14/11 14:53	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**82.7**		0.500		% dry		06/13/11 16:22	06/14/11 09:24	1.00

Client Sample ID: F-04B(8-9') Lab Sample ID: NUF1686-02

Date Collected: 06/08/11 10:00 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 80.2**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	PX	0.0600		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Benzene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Bromobenzene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Bromochloromethane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Bromodichloromethane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Bromoform	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Bromomethane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00600		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
2-Butanone	ND	PX	0.0600		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
sec-Butylbenzene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
n-Butylbenzene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
tert-Butylbenzene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Carbon disulfide	ND	PX	0.00600		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Carbon Tetrachloride	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Chlorobenzene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Chlorodibromomethane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Chloroethane	ND	PX	0.00600		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Chloroform	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Chloromethane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
2-Chlorotoluene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
4-Chlorotoluene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Dibromomethane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,4-Dichlorobenzene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,3-Dichlorobenzene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,2-Dichlorobenzene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Dichlorodifluoromethane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,1-Dichloroethane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,2-Dichloroethane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
cis-1,2-Dichloroethene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,1-Dichloroethene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
trans-1,2-Dichloroethene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,3-Dichloropropane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,2-Dichloropropane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
2,2-Dichloropropane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
cis-1,3-Dichloropropene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
trans-1,3-Dichloropropene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,1-Dichloropropene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Ethylbenzene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Hexachlorobutadiene	ND	PX	0.00600		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
2-Hexanone	ND	PX	0.0600		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Isopropylbenzene	ND	L PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
p-Isopropyltoluene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Methyl tert-Butyl Ether	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Methylene Chloride	**0.0133**	**PX**	0.0120		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
4-Methyl-2-pentanone	ND	PX	0.0600		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Naphthalene	ND	PX	0.00600		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
n-Propylbenzene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Styrene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00

Client Sample ID: F-04B(8-9') Lab Sample ID: NUF1686-02

Date Collected: 06/08/11 10:00 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 80.2**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Tetrachloroethene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Toluene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,2,3-Trichlorobenzene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,2,4-Trichlorobenzene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,1,2-Trichloroethane	ND	PX	0.00600		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,1,1-Trichloroethane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Trichloroethene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Trichlorofluoromethane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,2,3-Trichloropropane	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,3,5-Trimethylbenzene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
1,2,4-Trimethylbenzene	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Vinyl chloride	ND	PX	0.00240		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00
Xylenes, total	ND	PX	0.00600		mg/kg dry	☼	06/14/11 17:43	06/16/11 19:33	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*97*		*67 - 138*	*06/14/11 17:43*	*06/16/11 19:33*	*1.00*
Dibromofluoromethane	*98*		*75 - 125*	*06/14/11 17:43*	*06/16/11 19:33*	*1.00*
Toluene-d8	*105*		*76 - 129*	*06/14/11 17:43*	*06/16/11 19:33*	*1.00*
4-Bromofluorobenzene	*109*		*67 - 147*	*06/14/11 17:43*	*06/16/11 19:33*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Acenaphthylene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Anthracene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Benzo (a) anthracene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Benzo (a) pyrene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Benzo (b) fluoranthene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Benzo (g,h,i) perylene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Benzo (k) fluoranthene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
4-Bromophenyl phenyl ether	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Butyl benzyl phthalate	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Carbazole	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
4-Chloro-3-methylphenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
4-Chloroaniline	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Bis(2-chloroethoxy)methane	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Bis(2-chloroethyl)ether	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Bis(2-chloroisopropyl)ether	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
2-Chloronaphthalene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
2-Chlorophenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
4-Chlorophenyl phenyl ether	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Chrysene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Dibenz (a,h) anthracene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Dibenzofuran	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Di-n-butyl phthalate	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
1,4-Dichlorobenzene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
1,2-Dichlorobenzene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
1,3-Dichlorobenzene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
3,3-Dichlorobenzidine	ND		0.811		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
2,4-Dichlorophenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00

Client Sample ID: F-04B(8-9') Lab Sample ID: NUF1686-02

Date Collected: 06/08/11 10:00 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 80.2**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
2,4-Dimethylphenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Dimethyl phthalate	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
4,6-Dinitro-2-methylphenol	ND		1.01		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
2,4-Dinitrophenol	ND		1.01		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
2,6-Dinitrotoluene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
2,4-Dinitrotoluene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Di-n-octyl phthalate	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Bis(2-ethylhexyl)phthalate	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Fluoranthene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Fluorene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Hexachlorobenzene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Hexachlorobutadiene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Hexachlorocyclopentadiene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Hexachloroethane	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Isophorone	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
2-Methylnaphthalene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
2-Methylphenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
3/4-Methylphenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Naphthalene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
3-Nitroaniline	ND		1.01		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
2-Nitroaniline	ND		1.01		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
4-Nitroaniline	ND		1.01		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Nitrobenzene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
4-Nitrophenol	ND		1.01		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
2-Nitrophenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
N-Nitrosodiphenylamine	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
N-Nitrosodi-n-propylamine	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Pentachlorophenol	ND		1.01		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Phenanthrene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Phenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
Pyrene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
1,2,4-Trichlorobenzene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
1-Methylnaphthalene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
2,4,6-Trichlorophenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00
2,4,5-Trichlorophenol	ND		1.01		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:06	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*82*		*18 - 120*	*06/13/11 14:35*	*06/14/11 19:06*	*1.00*
2,4,6-Tribromophenol	*65*		*19 - 120*	*06/13/11 14:35*	*06/14/11 19:06*	*1.00*
Phenol-d5	*62*		*18 - 120*	*06/13/11 14:35*	*06/14/11 19:06*	*1.00*
2-Fluorobiphenyl	*62*		*14 - 120*	*06/13/11 14:35*	*06/14/11 19:06*	*1.00*
2-Fluorophenol	*60*		*17 - 120*	*06/13/11 14:35*	*06/14/11 19:06*	*1.00*
Nitrobenzene-d5	*61*		*17 - 120*	*06/13/11 14:35*	*06/14/11 19:06*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**299**		24.8		mg/kg dry	☼	06/14/11 09:35	06/17/11 05:23	5.00
TPH - Oil Range	**854**		24.8		mg/kg dry	☼	06/14/11 09:35	06/17/11 05:23	5.00

Client Sample ID: F-04B(8-9') Lab Sample ID: NUF1686-02

Date Collected: 06/08/11 10:00 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 80.2**

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	87		53 - 140	06/14/11 09:35	06/17/11 05:23	5.00

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0410		mg/kg dry	☼	06/14/11 07:35	06/15/11 03:23	1.00
PCB-1221	ND		0.0410		mg/kg dry	☼	06/14/11 07:35	06/15/11 03:23	1.00
PCB-1232	ND		0.0410		mg/kg dry	☼	06/14/11 07:35	06/15/11 03:23	1.00
PCB-1242	**0.0842**		0.0410		mg/kg dry	☼	06/14/11 07:35	06/15/11 03:23	1.00
PCB-1248	ND		0.0410		mg/kg dry	☼	06/14/11 07:35	06/15/11 03:23	1.00
PCB-1254	**0.0431**		0.0410		mg/kg dry	☼	06/14/11 07:35	06/15/11 03:23	1.00
PCB-1260	ND		0.0410		mg/kg dry	☼	06/14/11 07:35	06/15/11 03:23	1.00

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-meta-xylene	80		19 - 147	06/14/11 07:35	06/15/11 03:23	1.00
Decachlorobiphenyl	92		20 - 150	06/14/11 07:35	06/15/11 03:23	1.00

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**14.4**		1.25		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:27	1.00
Barium	**119**		2.51		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:27	1.00
Cadmium	ND		1.25		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:27	1.00
Chromium	**21.3**		1.25		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:27	1.00
Lead	**94.9**		1.25		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:27	1.00
Selenium	ND		2.51		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:27	1.00
Silver	ND		1.25		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:27	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.23**		0.12		mg/kg dry	☼	06/13/11 15:40	06/14/11 15:07	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**80.2**		0.500		% dry		06/13/11 16:22	06/14/11 09:24	1.00

Client Sample ID: F-05A(0-1') Lab Sample ID: NUF1686-03

Date Collected: 06/08/11 12:35 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 83.1**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.132**	**PX**	0.0555		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Benzene	**0.0199**	**PX**	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Bromochloromethane	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Bromodichloromethane	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Bromoform	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Bromomethane	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
2-Butanone	ND	PX	0.0555		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Carbon disulfide	**0.00604**	**PX**	0.00555		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Carbon Tetrachloride	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Chlorobenzene	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Chlorodibromomethane	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Chloroethane	ND	PX	0.00555		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Chloroform	**0.00517**	**PX**	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Chloromethane	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Dibromomethane	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Dichlorodifluoromethane	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
1,1-Dichloroethane	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
1,2-Dichloroethane	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
cis-1,2-Dichloroethene	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
1,1-Dichloroethene	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
trans-1,2-Dichloroethene	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
1,3-Dichloropropane	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
1,2-Dichloropropane	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
2,2-Dichloropropane	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
cis-1,3-Dichloropropene	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
trans-1,3-Dichloropropene	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
1,1-Dichloropropene	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Ethylbenzene	**0.00421**	**PX**	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
2-Hexanone	ND	PX	0.0555		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Isopropylbenzene	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Methyl tert-Butyl Ether	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Methylene Chloride	**0.107**	**PX**	0.0111		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
4-Methyl-2-pentanone	ND	PX	0.0555		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Styrene	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Tetrachloroethene	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Toluene	**0.0177**	**PX**	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
1,1,2-Trichloroethane	ND	PX	0.00555		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
1,1,1-Trichloroethane	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Trichloroethene	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Trichlorofluoromethane	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Vinyl chloride	ND	PX	0.00222		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00
Xylenes, total	**0.00720**	**PX**	0.00555		mg/kg dry	☼	06/14/11 17:44	06/17/11 13:57	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*113*		*67 - 138*	*06/14/11 17:44*	*06/17/11 13:57*	*1.00*
Dibromofluoromethane	*108*		*75 - 125*	*06/14/11 17:44*	*06/17/11 13:57*	*1.00*
Toluene-d8	*126*		*76 - 129*	*06/14/11 17:44*	*06/17/11 13:57*	*1.00*
4-Bromofluorobenzene	*163*	*ZX*	*67 - 147*	*06/14/11 17:44*	*06/17/11 13:57*	*1.00*

Client Sample ID: F-05A(0-1') Lab Sample ID: NUF1686-03

Date Collected: 06/08/11 12:35 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 83.1**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
1,2-Dibromo-3-chloropropane	ND	PX RL1	0.272		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
sec-Butylbenzene	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
n-Butylbenzene	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
tert-Butylbenzene	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
2-Chlorotoluene	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
4-Chlorotoluene	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
1,4-Dichlorobenzene	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
1,3-Dichlorobenzene	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
1,2-Dichlorobenzene	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
Hexachlorobutadiene	ND	PX RL1	0.272		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
p-Isopropyltoluene	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
Naphthalene	ND	PX RL1	0.272		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
n-Propylbenzene	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
1,1,2,2-Tetrachloroethane	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
1,2,3-Trichlorobenzene	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
1,2,4-Trichlorobenzene	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
1,2,3-Trichloropropane	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
1,3,5-Trimethylbenzene	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0
1,2,4-Trimethylbenzene	ND	PX RL1	0.109		mg/kg dry	☼	06/14/11 17:44	06/17/11 14:25	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*91*		*67 - 138*	*06/14/11 17:44*	*06/17/11 14:25*	*50.0*
Dibromofluoromethane	*96*		*75 - 125*	*06/14/11 17:44*	*06/17/11 14:25*	*50.0*
Toluene-d8	*105*		*76 - 129*	*06/14/11 17:44*	*06/17/11 14:25*	*50.0*
4-Bromofluorobenzene	*100*		*67 - 147*	*06/14/11 17:44*	*06/17/11 14:25*	*50.0*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Acenaphthylene	ND		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Anthracene	ND		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Benzo (a) anthracene	ND		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Benzo (a) pyrene	ND		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Benzo (b) fluoranthene	ND		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Benzo (g,h,i) perylene	ND		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Benzo (k) fluoranthene	ND		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
4-Bromophenyl phenyl ether	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Butyl benzyl phthalate	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Carbazole	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
4-Chloro-3-methylphenol	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
4-Chloroaniline	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Bis(2-chloroethoxy)methane	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Bis(2-chloroethyl)ether	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Bis(2-chloroisopropyl)ether	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
2-Chloronaphthalene	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
2-Chlorophenol	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
4-Chlorophenyl phenyl ether	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Chrysene	ND		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Dibenz (a,h) anthracene	ND		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Dibenzofuran	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00

Client Sample ID: F-05A(0-1') Lab Sample ID: NUF1686-03

Date Collected: 06/08/11 12:35 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 83.1**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
1,4-Dichlorobenzene	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
1,2-Dichlorobenzene	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
1,3-Dichlorobenzene	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
3,3-Dichlorobenzidine	ND		3.19		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
2,4-Dichlorophenol	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Diethyl phthalate	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
2,4-Dimethylphenol	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Dimethyl phthalate	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
4,6-Dinitro-2-methylphenol	ND		3.98		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
2,4-Dinitrophenol	ND		3.98		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
2,6-Dinitrotoluene	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
2,4-Dinitrotoluene	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Di-n-octyl phthalate	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Bis(2-ethylhexyl)phthalate	**2.79**		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Fluoranthene	**0.360**		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Fluorene	ND		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Hexachlorobenzene	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Hexachlorobutadiene	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Hexachlorocyclopentadiene	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Hexachloroethane	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Indeno (1,2,3-cd) pyrene	ND		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Isophorone	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
2-Methylnaphthalene	ND		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
2-Methylphenol	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
3/4-Methylphenol	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Naphthalene	ND		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
3-Nitroaniline	ND		3.98		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
2-Nitroaniline	ND		3.98		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
4-Nitroaniline	ND		3.98		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Nitrobenzene	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
4-Nitrophenol	ND		3.98		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
2-Nitrophenol	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
N-Nitrosodiphenylamine	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
N-Nitrosodi-n-propylamine	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Pentachlorophenol	ND		3.98		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Phenanthrene	ND		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Phenol	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
Pyrene	**0.376**		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
1,2,4-Trichlorobenzene	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
1-Methylnaphthalene	ND		0.320		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
2,4,6-Trichlorophenol	ND		1.59		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00
2,4,5-Trichlorophenol	ND		3.98		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:51	2.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*91*		*18 - 120*	*06/13/11 14:35*	*06/14/11 20:51*	*2.00*
2,4,6-Tribromophenol	*66*		*19 - 120*	*06/13/11 14:35*	*06/14/11 20:51*	*2.00*
Phenol-d5	*71*		*18 - 120*	*06/13/11 14:35*	*06/14/11 20:51*	*2.00*
2-Fluorobiphenyl	*80*		*14 - 120*	*06/13/11 14:35*	*06/14/11 20:51*	*2.00*
2-Fluorophenol	*65*		*17 - 120*	*06/13/11 14:35*	*06/14/11 20:51*	*2.00*
Nitrobenzene-d5	*75*		*17 - 120*	*06/13/11 14:35*	*06/14/11 20:51*	*2.00*

Client Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1686

Client Sample ID: F-05A(0-1')

Lab Sample ID: NUF1686-03

Date Collected: 06/08/11 12:35
Matrix: Soil
Date Received: 06/10/11 08:55
Percent Solids: 83.1

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**1960**		96.0		mg/kg dry	☼	06/14/11 09:35	06/17/11 05:40	20.0
TPH - Oil Range	**4620**		96.0		mg/kg dry	☼	06/14/11 09:35	06/17/11 05:40	20.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl		*Z3*	*53 - 140*	*06/14/11 09:35*	*06/17/11 05:40*	*20.0*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0393		mg/kg dry	☼	06/14/11 07:35	06/15/11 03:44	1.00
PCB-1221	ND		0.0393		mg/kg dry	☼	06/14/11 07:35	06/15/11 03:44	1.00
PCB-1232	ND		0.0393		mg/kg dry	☼	06/14/11 07:35	06/15/11 03:44	1.00
PCB-1242	**0.233**		0.0393		mg/kg dry	☼	06/14/11 07:35	06/15/11 03:44	1.00
PCB-1248	ND		0.0393		mg/kg dry	☼	06/14/11 07:35	06/15/11 03:44	1.00
PCB-1254	**0.140**		0.0393		mg/kg dry	☼	06/14/11 07:35	06/15/11 03:44	1.00
PCB-1260	ND		0.0393		mg/kg dry	☼	06/14/11 07:35	06/15/11 03:44	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*76*		*19 - 147*	*06/14/11 07:35*	*06/15/11 03:44*	*1.00*
Decachlorobiphenyl	*72*		*20 - 150*	*06/14/11 07:35*	*06/15/11 03:44*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**50.7**		11.6		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:11	10.0
Barium	**560**		23.3		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:11	10.0
Cadmium	**108**		11.6		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:11	10.0
Chromium	**665**		11.6		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:11	10.0
Lead	**36700**		11.6		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:11	10.0
Selenium	ND		23.3		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:11	10.0
Silver	**19.1**		11.6		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:11	10.0

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.32**		0.12		mg/kg dry	☼	06/13/11 15:40	06/14/11 15:10	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**83.1**		0.500		% dry		06/13/11 16:22	06/14/11 09:24	1.00

Client Sample ID: F-05B(0-1') Lab Sample ID: NUF1686-04

Date Collected: 06/08/11 12:35 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 79.5**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0811**	**PX**	0.0582		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Benzene	**0.0123**	**PX**	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Bromochloromethane	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Bromodichloromethane	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Bromoform	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Bromomethane	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
2-Butanone	ND	PX	0.0582		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Carbon disulfide	**0.00779**	**PX**	0.00582		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Carbon Tetrachloride	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Chlorobenzene	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Chlorodibromomethane	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Chloroethane	ND	PX	0.00582		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Chloroform	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Chloromethane	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Dibromomethane	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Dichlorodifluoromethane	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
1,1-Dichloroethane	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
1,2-Dichloroethane	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
cis-1,2-Dichloroethene	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
1,1-Dichloroethene	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
trans-1,2-Dichloroethene	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
1,3-Dichloropropane	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
1,2-Dichloropropane	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
2,2-Dichloropropane	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
cis-1,3-Dichloropropene	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
trans-1,3-Dichloropropene	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
1,1-Dichloropropene	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Ethylbenzene	**0.0419**	**PX**	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
2-Hexanone	ND	PX	0.0582		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Isopropylbenzene	**0.00674**	**PX**	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Methyl tert-Butyl Ether	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Methylene Chloride	ND	PX	0.0116		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
4-Methyl-2-pentanone	ND	PX	0.0582		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Styrene	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Tetrachloroethene	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Toluene	**0.0475**	**PX**	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
1,1,2-Trichloroethane	ND	PX	0.00582		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
1,1,1-Trichloroethane	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Trichloroethene	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Trichlorofluoromethane	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Vinyl chloride	ND	PX	0.00233		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00
Xylenes, total	**0.264**	**PX**	0.00582		mg/kg dry	☼	06/14/11 17:47	06/17/11 14:52	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*111*		*67 - 138*	*06/14/11 17:47*	*06/17/11 14:52*	*1.00*
Dibromofluoromethane	*107*		*75 - 125*	*06/14/11 17:47*	*06/17/11 14:52*	*1.00*
Toluene-d8	*127*		*76 - 129*	*06/14/11 17:47*	*06/17/11 14:52*	*1.00*
4-Bromofluorobenzene	*193*	*ZX*	*67 - 147*	*06/14/11 17:47*	*06/17/11 14:52*	*1.00*

Client Sample ID: F-05B(0-1') Lab Sample ID: NUF1686-04

Date Collected: 06/08/11 12:35 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 79.5**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND	PX RL1	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
1,2-Dibromo-3-chloropropane	ND	PX RL1	0.301		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
sec-Butylbenzene	ND	PX RL1	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
n-Butylbenzene	ND	PX RL1	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
tert-Butylbenzene	ND	PX RL1	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
2-Chlorotoluene	ND	PX RL1	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
4-Chlorotoluene	ND	PX RL1	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
1,4-Dichlorobenzene	ND	RL1 PX	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
1,3-Dichlorobenzene	ND	RL1 PX	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
1,2-Dichlorobenzene	ND	PX RL1	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
Hexachlorobutadiene	ND	PX RL1	0.301		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
p-Isopropyltoluene	ND	PX RL1	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
Naphthalene	**0.337**	**PX**	0.301		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
n-Propylbenzene	**0.143**	**PX**	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
1,1,2,2-Tetrachloroethane	ND	PX RL1	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
1,2,3-Trichlorobenzene	ND	PX RL1	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
1,2,4-Trichlorobenzene	ND	PX RL1	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
1,2,3-Trichloropropane	ND	PX RL1	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
1,3,5-Trimethylbenzene	**0.186**	**PX**	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0
1,2,4-Trimethylbenzene	**0.367**	**PX**	0.121		mg/kg dry	☼	06/14/11 17:47	06/17/11 15:20	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*88*		*67 - 138*	*06/14/11 17:47*	*06/17/11 15:20*	*50.0*
Dibromofluoromethane	*95*		*75 - 125*	*06/14/11 17:47*	*06/17/11 15:20*	*50.0*
Toluene-d8	*106*		*76 - 129*	*06/14/11 17:47*	*06/17/11 15:20*	*50.0*
4-Bromofluorobenzene	*101*		*67 - 147*	*06/14/11 17:47*	*06/17/11 15:20*	*50.0*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Acenaphthylene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Anthracene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Benzo (a) anthracene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Benzo (a) pyrene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Benzo (b) fluoranthene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Benzo (g,h,i) perylene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Benzo (k) fluoranthene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
4-Bromophenyl phenyl ether	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Butyl benzyl phthalate	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Carbazole	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
4-Chloro-3-methylphenol	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
4-Chloroaniline	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Bis(2-chloroethoxy)methane	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Bis(2-chloroethyl)ether	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Bis(2-chloroisopropyl)ether	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
2-Chloronaphthalene	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
2-Chlorophenol	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
4-Chlorophenyl phenyl ether	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Chrysene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Dibenz (a,h) anthracene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Dibenzofuran	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00

Client Sample ID: F-05B(0-1') Lab Sample ID: NUF1686-04

Date Collected: 06/08/11 12:35 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 79.5**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
1,4-Dichlorobenzene	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
1,2-Dichlorobenzene	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
1,3-Dichlorobenzene	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
3,3-Dichlorobenzidine	ND		40.8		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
2,4-Dichlorophenol	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Diethyl phthalate	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
2,4-Dimethylphenol	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Dimethyl phthalate	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
4,6-Dinitro-2-methylphenol	ND		51.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
2,4-Dinitrophenol	ND		51.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
2,6-Dinitrotoluene	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
2,4-Dinitrotoluene	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Di-n-octyl phthalate	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Bis(2-ethylhexyl)phthalate	**23.6**		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Fluoranthene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Fluorene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Hexachlorobenzene	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Hexachlorobutadiene	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Hexachlorocyclopentadiene	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Hexachloroethane	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Indeno (1,2,3-cd) pyrene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Isophorone	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
2-Methylnaphthalene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
2-Methylphenol	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
3/4-Methylphenol	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Naphthalene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
3-Nitroaniline	ND		51.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
2-Nitroaniline	ND		51.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
4-Nitroaniline	ND		51.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Nitrobenzene	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
4-Nitrophenol	ND		51.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
2-Nitrophenol	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
N-Nitrosodiphenylamine	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
N-Nitrosodi-n-propylamine	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Pentachlorophenol	ND		51.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Phenanthrene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Phenol	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
Pyrene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
1,2,4-Trichlorobenzene	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
1-Methylnaphthalene	ND		4.10		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
2,4,6-Trichlorophenol	ND		20.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00
2,4,5-Trichlorophenol	ND		51.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:33	5.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*92*		*18 - 120*	*06/13/11 14:35*	*06/14/11 21:33*	*5.00*
2,4,6-Tribromophenol	*48*		*19 - 120*	*06/13/11 14:35*	*06/14/11 21:33*	*5.00*
Phenol-d5	*68*		*18 - 120*	*06/13/11 14:35*	*06/14/11 21:33*	*5.00*
2-Fluorobiphenyl	*78*		*14 - 120*	*06/13/11 14:35*	*06/14/11 21:33*	*5.00*
2-Fluorophenol	*66*		*17 - 120*	*06/13/11 14:35*	*06/14/11 21:33*	*5.00*
Nitrobenzene-d5	*79*		*17 - 120*	*06/13/11 14:35*	*06/14/11 21:33*	*5.00*

Client Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1686

Client Sample ID: F-05B(0-1')

Date Collected: 06/08/11 12:35
Date Received: 06/10/11 08:55

Lab Sample ID: NUF1686-04

Matrix: Soil
Percent Solids: 79.5

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**28800**		1250		mg/kg dry	☼	06/14/11 09:35	06/18/11 18:22	50.0
TPH - Oil Range	**34600**		1250		mg/kg dry	☼	06/14/11 09:35	06/18/11 18:22	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl		*Z3*	*53 - 140*	*06/14/11 09:35*	*06/18/11 18:22*	*50.0*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.104		mg/kg dry	☼	06/14/11 07:35	06/15/11 13:14	5.00
PCB-1221	ND		0.104		mg/kg dry	☼	06/14/11 07:35	06/15/11 13:14	5.00
PCB-1232	ND		0.104		mg/kg dry	☼	06/14/11 07:35	06/15/11 13:14	5.00
PCB-1242	**0.394**		0.104		mg/kg dry	☼	06/14/11 07:35	06/15/11 13:14	5.00
PCB-1248	ND		0.104		mg/kg dry	☼	06/14/11 07:35	06/15/11 13:14	5.00
PCB-1254	ND		0.104		mg/kg dry	☼	06/14/11 07:35	06/15/11 13:14	5.00
PCB-1260	ND		0.104		mg/kg dry	☼	06/14/11 07:35	06/15/11 13:14	5.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*45*		*19 - 147*	*06/14/11 07:35*	*06/15/11 13:14*	*5.00*
Decachlorobiphenyl	*45*		*20 - 150*	*06/14/11 07:35*	*06/15/11 13:14*	*5.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**24.6**		12.4		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:15	10.0
Barium	**577**		24.9		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:15	10.0
Cadmium	**87.3**		12.4		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:15	10.0
Chromium	**499**		12.4		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:15	10.0
Lead	**19700**		12.4		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:15	10.0
Selenium	ND		24.9		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:15	10.0
Silver	**83.3**		12.4		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:15	10.0

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.70**		0.12		mg/kg dry	☼	06/13/11 15:40	06/14/11 15:13	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**79.5**		0.500		% dry		06/13/11 16:22	06/14/11 09:24	1.00

Client Sample ID: F-03A(1-3') Lab Sample ID: NUF1686-05

Date Collected: 06/08/11 13:40 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 76.1**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.141**	**PX**	0.0607		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Benzene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Bromobenzene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Bromochloromethane	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Bromodichloromethane	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Bromoform	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Bromomethane	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00607		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
2-Butanone	**0.0770**	**PX**	0.0607		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
sec-Butylbenzene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
n-Butylbenzene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
tert-Butylbenzene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Carbon disulfide	**0.0162**	**PX**	0.00607		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Carbon Tetrachloride	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Chlorobenzene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Chlorodibromomethane	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Chloroethane	ND	PX	0.00607		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Chloroform	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Chloromethane	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
2-Chlorotoluene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
4-Chlorotoluene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Dibromomethane	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,4-Dichlorobenzene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,3-Dichlorobenzene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,2-Dichlorobenzene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Dichlorodifluoromethane	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,1-Dichloroethane	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,2-Dichloroethane	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
cis-1,2-Dichloroethene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,1-Dichloroethene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
trans-1,2-Dichloroethene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,3-Dichloropropane	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,2-Dichloropropane	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
2,2-Dichloropropane	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
cis-1,3-Dichloropropene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
trans-1,3-Dichloropropene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,1-Dichloropropene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Ethylbenzene	**0.00335**	**PX**	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Hexachlorobutadiene	ND	PX	0.00607		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
2-Hexanone	ND	PX	0.0607		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Isopropylbenzene	**0.00488**	**L1 PX**	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
p-Isopropyltoluene	**0.00567**	**PX**	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Methyl tert-Butyl Ether	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Methylene Chloride	**0.0167**	**PX**	0.0121		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
4-Methyl-2-pentanone	ND	PX	0.0607		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Naphthalene	**0.00641**	**PX**	0.00607		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
n-Propylbenzene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Styrene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00

Client Sample ID: F-03A(1-3') Lab Sample ID: NUF1686-05

Date Collected: 06/08/11 13:40 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 76.1**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Tetrachloroethene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Toluene	**0.00410**	**PX**	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,2,3-Trichlorobenzene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,2,4-Trichlorobenzene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,1,2-Trichloroethane	ND	PX	0.00607		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,1,1-Trichloroethane	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Trichloroethene	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Trichlorofluoromethane	**0.0122**	**PX**	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,2,3-Trichloropropane	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,3,5-Trimethylbenzene	**0.00723**	**PX**	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
1,2,4-Trimethylbenzene	**0.00950**	**PX**	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Vinyl chloride	ND	PX	0.00243		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00
Xylenes, total	**0.0205**	**PX**	0.00607		mg/kg dry	☼	06/14/11 17:49	06/16/11 21:23	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*105*		*67 - 138*	*06/14/11 17:49*	*06/16/11 21:23*	*1.00*
Dibromofluoromethane	*102*		*75 - 125*	*06/14/11 17:49*	*06/16/11 21:23*	*1.00*
Toluene-d8	*110*		*76 - 129*	*06/14/11 17:49*	*06/16/11 21:23*	*1.00*
4-Bromofluorobenzene	*129*		*67 - 147*	*06/14/11 17:49*	*06/16/11 21:23*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Acenaphthylene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Anthracene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Benzo (a) anthracene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Benzo (a) pyrene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Benzo (b) fluoranthene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Benzo (g,h,i) perylene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Benzo (k) fluoranthene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
4-Bromophenyl phenyl ether	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Butyl benzyl phthalate	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Carbazole	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
4-Chloro-3-methylphenol	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
4-Chloroaniline	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Bis(2-chloroethoxy)methane	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Bis(2-chloroethyl)ether	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Bis(2-chloroisopropyl)ether	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
2-Chloronaphthalene	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
2-Chlorophenol	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
4-Chlorophenyl phenyl ether	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Chrysene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Dibenz (a,h) anthracene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Dibenzofuran	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Di-n-butyl phthalate	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
1,4-Dichlorobenzene	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
1,2-Dichlorobenzene	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
1,3-Dichlorobenzene	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
3,3-Dichlorobenzidine	ND		43.5		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
2,4-Dichlorophenol	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00

Client Sample ID: F-03A(1-3') Lab Sample ID: NUF1686-05

Date Collected: 06/08/11 13:40 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 76.1**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
2,4-Dimethylphenol	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Dimethyl phthalate	**36.2**		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
4,6-Dinitro-2-methylphenol	ND		54.3		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
2,4-Dinitrophenol	ND		54.3		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
2,6-Dinitrotoluene	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
2,4-Dinitrotoluene	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Di-n-octyl phthalate	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Bis(2-ethylhexyl)phthalate	**23.5**		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Fluoranthene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Fluorene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Hexachlorobenzene	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Hexachlorobutadiene	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Hexachlorocyclopentadiene	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Hexachloroethane	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Indeno (1,2,3-cd) pyrene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Isophorone	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
2-Methylnaphthalene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
2-Methylphenol	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
3/4-Methylphenol	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Naphthalene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
3-Nitroaniline	ND		54.3		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
2-Nitroaniline	ND		54.3		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
4-Nitroaniline	ND		54.3		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Nitrobenzene	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
4-Nitrophenol	ND		54.3		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
2-Nitrophenol	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
N-Nitrosodiphenylamine	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
N-Nitrosodi-n-propylamine	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Pentachlorophenol	ND		54.3		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Phenanthrene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Phenol	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
Pyrene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
1,2,4-Trichlorobenzene	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
1-Methylnaphthalene	ND		4.37		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
2,4,6-Trichlorophenol	ND		21.7		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00
2,4,5-Trichlorophenol	ND		54.3		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:54	5.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*99*		*18 - 120*	*06/13/11 14:35*	*06/14/11 21:54*	*5.00*
2,4,6-Tribromophenol	*60*		*19 - 120*	*06/13/11 14:35*	*06/14/11 21:54*	*5.00*
Phenol-d5	*60*		*18 - 120*	*06/13/11 14:35*	*06/14/11 21:54*	*5.00*
2-Fluorobiphenyl	*69*		*14 - 120*	*06/13/11 14:35*	*06/14/11 21:54*	*5.00*
2-Fluorophenol	*52*		*17 - 120*	*06/13/11 14:35*	*06/14/11 21:54*	*5.00*
Nitrobenzene-d5	*79*		*17 - 120*	*06/13/11 14:35*	*06/14/11 21:54*	*5.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**3350**		261		mg/kg dry	☼	06/15/11 15:35	06/18/11 00:44	25.0
TPH - Oil Range	**6970**		261		mg/kg dry	☼	06/15/11 15:35	06/18/11 00:44	25.0

Client Sample ID: F-03A(1-3')

Lab Sample ID: NUF1686-05

Date Collected: 06/08/11 13:40
Matrix: Soil
Date Received: 06/10/11 08:55
Percent Solids: 76.1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl		Z3	53 - 140	06/15/11 15:35	06/18/11 00:44	25.0

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.434		mg/kg dry	☼	06/14/11 07:35	06/15/11 13:35	10.0
PCB-1221	ND		0.434		mg/kg dry	☼	06/14/11 07:35	06/15/11 13:35	10.0
PCB-1232	ND		0.434		mg/kg dry	☼	06/14/11 07:35	06/15/11 13:35	10.0
PCB-1242	ND		0.434		mg/kg dry	☼	06/14/11 07:35	06/15/11 13:35	10.0
PCB-1248	ND		0.434		mg/kg dry	☼	06/14/11 07:35	06/15/11 13:35	10.0
PCB-1254	**6.55**		0.434		mg/kg dry	☼	06/14/11 07:35	06/15/11 13:35	10.0
PCB-1260	ND		0.434		mg/kg dry	☼	06/14/11 07:35	06/15/11 13:35	10.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-meta-xylene	80		19 - 147	06/14/11 07:35	06/15/11 13:35	10.0
Decachlorobiphenyl	180	Z3	20 - 150	06/14/11 07:35	06/15/11 13:35	10.0

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		13.0		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:18	10.0
Barium	**932**		26.0		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:18	10.0
Cadmium	**42.9**		13.0		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:18	10.0
Chromium	**249**		13.0		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:18	10.0
Lead	**3270**		13.0		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:18	10.0
Selenium	ND		26.0		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:18	10.0
Silver	ND		13.0		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:18	10.0

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.51**		0.13		mg/kg dry	☼	06/13/11 15:40	06/14/11 15:15	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**76.1**		0.500		% dry		06/13/11 16:22	06/14/11 09:24	1.00

Client Sample ID: F-03A(4-5') Lab Sample ID: NUF1686-06

Date Collected: 06/08/11 13:35 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 86.8**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.230**	**PX**	0.0547		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Benzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Bromobenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Bromochloromethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Bromodichloromethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Bromoform	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Bromomethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00547		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
2-Butanone	ND	PX	0.0547		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
sec-Butylbenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
n-Butylbenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
tert-Butylbenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Carbon disulfide	ND	PX	0.00547		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Carbon Tetrachloride	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Chlorobenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Chlorodibromomethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Chloroethane	ND	PX	0.00547		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Chloroform	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Chloromethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
2-Chlorotoluene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
4-Chlorotoluene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Dibromomethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,4-Dichlorobenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,3-Dichlorobenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,2-Dichlorobenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Dichlorodifluoromethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,1-Dichloroethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,2-Dichloroethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
cis-1,2-Dichloroethene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,1-Dichloroethene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
trans-1,2-Dichloroethene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,3-Dichloropropane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,2-Dichloropropane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
2,2-Dichloropropane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
cis-1,3-Dichloropropene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
trans-1,3-Dichloropropene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,1-Dichloropropene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Ethylbenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Hexachlorobutadiene	ND	PX	0.00547		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
2-Hexanone	ND	PX	0.0547		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Isopropylbenzene	ND	PX L	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
p-Isopropyltoluene	**0.00618**	**PX**	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Methyl tert-Butyl Ether	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Methylene Chloride	ND	PX	0.0109		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
4-Methyl-2-pentanone	ND	PX	0.0547		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Naphthalene	ND	PX	0.00547		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
n-Propylbenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Styrene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00

Client Sample ID: F-03A(4-5') Lab Sample ID: NUF1686-06

Date Collected: 06/08/11 13:35 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 86.8**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Tetrachloroethene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Toluene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,2,3-Trichlorobenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,2,4-Trichlorobenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,1,2-Trichloroethane	ND	PX	0.00547		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,1,1-Trichloroethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Trichloroethene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Trichlorofluoromethane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,2,3-Trichloropropane	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,3,5-Trimethylbenzene	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
1,2,4-Trimethylbenzene	**0.00273**	**PX**	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Vinyl chloride	ND	PX	0.00219		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00
Xylenes, total	**0.00740**	**PX**	0.00547		mg/kg dry	☼	06/14/11 17:50	06/16/11 20:01	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*100*		*67 - 138*	*06/14/11 17:50*	*06/16/11 20:01*	*1.00*
Dibromofluoromethane	*101*		*75 - 125*	*06/14/11 17:50*	*06/16/11 20:01*	*1.00*
Toluene-d8	*105*		*76 - 129*	*06/14/11 17:50*	*06/16/11 20:01*	*1.00*
4-Bromofluorobenzene	*103*		*67 - 147*	*06/14/11 17:50*	*06/16/11 20:01*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Acenaphthylene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Anthracene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Benzo (a) anthracene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Benzo (a) pyrene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Benzo (b) fluoranthene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Benzo (g,h,i) perylene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Benzo (k) fluoranthene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
4-Bromophenyl phenyl ether	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Butyl benzyl phthalate	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Carbazole	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
4-Chloro-3-methylphenol	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
4-Chloroaniline	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Bis(2-chloroethoxy)methane	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Bis(2-chloroethyl)ether	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Bis(2-chloroisopropyl)ether	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
2-Chloronaphthalene	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
2-Chlorophenol	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
4-Chlorophenyl phenyl ether	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Chrysene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Dibenz (a,h) anthracene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Dibenzofuran	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Di-n-butyl phthalate	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
1,4-Dichlorobenzene	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
1,2-Dichlorobenzene	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
1,3-Dichlorobenzene	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
3,3-Dichlorobenzidine	ND		0.753		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
2,4-Dichlorophenol	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00

Client Sample ID: F-03A(4-5') Lab Sample ID: NUF1686-06

Date Collected: 06/08/11 13:35 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 86.8**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
2,4-Dimethylphenol	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Dimethyl phthalate	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
4,6-Dinitro-2-methylphenol	ND		0.940		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
2,4-Dinitrophenol	ND		0.940		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
2,6-Dinitrotoluene	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
2,4-Dinitrotoluene	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Di-n-octyl phthalate	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Bis(2-ethylhexyl)phthalate	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Fluoranthene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Fluorene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Hexachlorobenzene	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Hexachlorobutadiene	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Hexachlorocyclopentadiene	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Hexachloroethane	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Isophorone	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
2-Methylnaphthalene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
2-Methylphenol	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
3/4-Methylphenol	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Naphthalene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
3-Nitroaniline	ND		0.940		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
2-Nitroaniline	ND		0.940		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
4-Nitroaniline	ND		0.940		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Nitrobenzene	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
4-Nitrophenol	ND		0.940		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
2-Nitrophenol	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
N-Nitrosodiphenylamine	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
N-Nitrosodi-n-propylamine	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Pentachlorophenol	ND		0.940		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Phenanthrene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Phenol	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
Pyrene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
1,2,4-Trichlorobenzene	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
1-Methylnaphthalene	ND		0.0756		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
2,4,6-Trichlorophenol	ND		0.376		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00
2,4,5-Trichlorophenol	ND		0.940		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:27	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*86*		*18 - 120*	*06/13/11 14:35*	*06/14/11 19:27*	*1.00*
2,4,6-Tribromophenol	*66*		*19 - 120*	*06/13/11 14:35*	*06/14/11 19:27*	*1.00*
Phenol-d5	*65*		*18 - 120*	*06/13/11 14:35*	*06/14/11 19:27*	*1.00*
2-Fluorobiphenyl	*63*		*14 - 120*	*06/13/11 14:35*	*06/14/11 19:27*	*1.00*
2-Fluorophenol	*64*		*17 - 120*	*06/13/11 14:35*	*06/14/11 19:27*	*1.00*
Nitrobenzene-d5	*63*		*17 - 120*	*06/13/11 14:35*	*06/14/11 19:27*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**42.8**		4.59		mg/kg dry	☼	06/15/11 15:35	06/17/11 23:56	1.00
TPH - Oil Range	**98.4**		4.59		mg/kg dry	☼	06/15/11 15:35	06/17/11 23:56	1.00

Client Sample ID: F-03A(4-5') Lab Sample ID: NUF1686-06

Date Collected: 06/08/11 13:35 **Matrix: Soil**
Date Received: 06/10/11 08:55 **Percent Solids: 86.8**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*53 - 140*	*06/15/11 15:35*	*06/17/11 23:56*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0382		mg/kg dry	☼	06/14/11 07:35	06/15/11 21:10	1.00
PCB-1221	ND		0.0382		mg/kg dry	☼	06/14/11 07:35	06/15/11 21:10	1.00
PCB-1232	ND		0.0382		mg/kg dry	☼	06/14/11 07:35	06/15/11 21:10	1.00
PCB-1242	ND		0.0382		mg/kg dry	☼	06/14/11 07:35	06/15/11 21:10	1.00
PCB-1248	ND		0.0382		mg/kg dry	☼	06/14/11 07:35	06/15/11 21:10	1.00
PCB-1254	ND		0.0382		mg/kg dry	☼	06/14/11 07:35	06/15/11 21:10	1.00
PCB-1260	ND		0.0382		mg/kg dry	☼	06/14/11 07:35	06/15/11 21:10	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*86*		*19 - 147*	*06/14/11 07:35*	*06/15/11 21:10*	*1.00*
Decachlorobiphenyl	*102*		*20 - 150*	*06/14/11 07:35*	*06/15/11 21:10*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.76**		1.14		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:40	1.00
Barium	**150**		2.28		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:40	1.00
Cadmium	ND		1.14		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:40	1.00
Chromium	**19.5**		1.14		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:40	1.00
Lead	**14.2**		1.14		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:40	1.00
Selenium	ND		2.28		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:40	1.00
Silver	ND		1.14		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:40	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.11		mg/kg dry	☼	06/13/11 15:40	06/14/11 15:18	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**86.8**		0.500		% dry		06/14/11 08:46	06/14/11 12:46	1.00

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1686

Client Sample ID: F-IDW

Lab Sample ID: NUF1686-07

Date Collected: 06/08/11 12:00
Matrix: Soil
Date Received: 06/10/11 08:55

Method: SW846 1311/6010B - TCLP Metals by 6000/7000 Series Methods - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0500		mg/L		06/15/11 07:51	06/16/11 08:32	1.00
Arsenic	ND		0.100		mg/L		06/15/11 07:51	06/16/11 08:32	1.00
Barium	**2.13**		0.100		mg/L		06/15/11 07:51	06/16/11 08:32	1.00
Cadmium	**0.0790**		0.0100		mg/L		06/15/11 07:51	06/16/11 08:32	1.00
Lead	**3.43**		0.0500		mg/L		06/15/11 07:51	06/16/11 08:32	1.00
Selenium	ND		0.100		mg/L		06/15/11 07:51	06/16/11 08:32	1.00
Silver	ND		0.0500		mg/L		06/15/11 07:51	06/16/11 08:32	1.00

Method: SW846 1311/7470A - TCLP Metals by 6000/7000 Series Methods - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0100		mg/L		06/16/11 13:20	06/17/11 09:34	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11F4149-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Benzene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Bromobenzene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Bromochloromethane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Bromodichloromethane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Bromoform	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Bromomethane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,2-Dibromo-3-chloropropane	ND		0.00500		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
2-Butanone	ND		0.0500		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
sec-Butylbenzene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
n-Butylbenzene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
tert-Butylbenzene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Carbon disulfide	ND		0.00500		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Carbon Tetrachloride	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Chlorobenzene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Chlorodibromomethane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Chloroethane	ND		0.00500		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Chloroform	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Chloromethane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
2-Chlorotoluene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
4-Chlorotoluene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,2-Dibromoethane (EDB)	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Dibromomethane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,4-Dichlorobenzene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,3-Dichlorobenzene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,2-Dichlorobenzene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Dichlorodifluoromethane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,1-Dichloroethane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,2-Dichloroethane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
cis-1,2-Dichloroethene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,1-Dichloroethene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
trans-1,2-Dichloroethene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,3-Dichloropropane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,2-Dichloropropane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
2,2-Dichloropropane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
cis-1,3-Dichloropropene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
trans-1,3-Dichloropropene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,1-Dichloropropene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Ethylbenzene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Hexachlorobutadiene	ND		0.00500		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
2-Hexanone	ND		0.0500		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Isopropylbenzene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
p-Isopropyltoluene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Methyl tert-Butyl Ether	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Methylene Chloride	ND		0.0100		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
4-Methyl-2-pentanone	ND		0.0500		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Naphthalene	ND		0.00500		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
n-Propylbenzene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Styrene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4149-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Tetrachloroethene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Toluene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,2,3-Trichlorobenzene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,2,4-Trichlorobenzene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,1,2-Trichloroethane	ND		0.00500		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,1,1-Trichloroethane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Trichloroethene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Trichlorofluoromethane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,2,3-Trichloropropane	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,3,5-Trimethylbenzene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
1,2,4-Trimethylbenzene	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Vinyl chloride	ND		0.00200		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00
Xylenes, total	ND		0.00500		mg/kg wet		06/16/11 09:42	06/16/11 12:27	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*94*		*67 - 138*	*06/16/11 09:42*	*06/16/11 12:27*	*1.00*
Dibromofluoromethane	*95*		*75 - 125*	*06/16/11 09:42*	*06/16/11 12:27*	*1.00*
Toluene-d8	*103*		*76 - 129*	*06/16/11 09:42*	*06/16/11 12:27*	*1.00*
4-Bromofluorobenzene	*101*		*67 - 147*	*06/16/11 09:42*	*06/16/11 12:27*	*1.00*

Lab Sample ID: 11F4149-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.50		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Benzene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Bromobenzene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Bromochloromethane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Bromodichloromethane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Bromoform	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Bromomethane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,2-Dibromo-3-chloropropane	ND		0.250		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
2-Butanone	ND		2.50		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
sec-Butylbenzene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
n-Butylbenzene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
tert-Butylbenzene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Carbon disulfide	ND		0.250		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Carbon Tetrachloride	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Chlorobenzene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Chlorodibromomethane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Chloroethane	ND		0.250		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Chloroform	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Chloromethane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
2-Chlorotoluene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
4-Chlorotoluene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,2-Dibromoethane (EDB)	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4149-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,4-Dichlorobenzene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,3-Dichlorobenzene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,2-Dichlorobenzene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Dichlorodifluoromethane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,1-Dichloroethane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,2-Dichloroethane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
cis-1,2-Dichloroethene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,1-Dichloroethene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
trans-1,2-Dichloroethene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,3-Dichloropropane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,2-Dichloropropane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
2,2-Dichloropropane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
cis-1,3-Dichloropropene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
trans-1,3-Dichloropropene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,1-Dichloropropene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Ethylbenzene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Hexachlorobutadiene	ND		0.250		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
2-Hexanone	ND		2.50		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Isopropylbenzene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
p-Isopropyltoluene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Methyl tert-Butyl Ether	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Methylene Chloride	ND		0.500		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
4-Methyl-2-pentanone	ND		2.50		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Naphthalene	ND		0.250		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
n-Propylbenzene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Styrene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,1,1,2-Tetrachloroethane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,1,2,2-Tetrachloroethane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Tetrachloroethene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Toluene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,2,3-Trichlorobenzene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,2,4-Trichlorobenzene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,1,2-Trichloroethane	ND		0.250		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,1,1-Trichloroethane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Trichloroethene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Trichlorofluoromethane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,2,3-Trichloropropane	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,3,5-Trimethylbenzene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
1,2,4-Trimethylbenzene	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Vinyl chloride	ND		0.100		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0
Xylenes, total	ND		0.250		mg/kg wet		06/16/11 09:42	06/16/11 12:55	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*95*		*67 - 138*	*06/16/11 09:42*	*06/16/11 12:55*	*50.0*
Dibromofluoromethane	*96*		*75 - 125*	*06/16/11 09:42*	*06/16/11 12:55*	*50.0*
Toluene-d8	*108*		*76 - 129*	*06/16/11 09:42*	*06/16/11 12:55*	*50.0*
4-Bromofluorobenzene	*100*		*67 - 147*	*06/16/11 09:42*	*06/16/11 12:55*	*50.0*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4149-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	244		ug/kg		97	60 - 150
Benzene	50.0	54.2		ug/kg		108	78 - 126
Bromobenzene	50.0	55.2		ug/kg		110	79 - 126
Bromochloromethane	50.0	54.9		ug/kg		110	78 - 126
Bromodichloromethane	50.0	52.7		ug/kg		105	75 - 129
Bromoform	50.0	53.0		ug/kg		106	74 - 133
Bromomethane	50.0	49.6		ug/kg		99	50 - 150
1,2-Dibromo-3-chloropropane	50.0	54.8		ug/kg		110	62 - 150
2-Butanone	250	256		ug/kg		102	68 - 149
sec-Butylbenzene	50.0	56.6		ug/kg		113	76 - 135
n-Butylbenzene	50.0	59.3		ug/kg		119	73 - 143
tert-Butylbenzene	50.0	55.9		ug/kg		112	80 - 129
Carbon disulfide	50.0	51.7		ug/kg		103	80 - 132
Carbon Tetrachloride	50.0	54.3		ug/kg		109	70 - 138
Chlorobenzene	50.0	54.2		ug/kg		108	80 - 123
Chlorodibromomethane	50.0	54.2		ug/kg		108	80 - 127
Chloroethane	50.0	59.0		ug/kg		118	55 - 150
Chloroform	50.0	52.6		ug/kg		105	70 - 127
Chloromethane	50.0	41.9		ug/kg		84	36 - 137
2-Chlorotoluene	50.0	54.9		ug/kg		110	80 - 130
4-Chlorotoluene	50.0	56.9		ug/kg		114	77 - 132
1,2-Dibromoethane (EDB)	50.0	54.4		ug/kg		109	80 - 131
Dibromomethane	50.0	53.9		ug/kg		108	78 - 128
1,4-Dichlorobenzene	50.0	57.5		ug/kg		115	80 - 129
1,3-Dichlorobenzene	50.0	57.4		ug/kg		115	80 - 131
1,2-Dichlorobenzene	50.0	57.2		ug/kg		114	80 - 127
Dichlorodifluoromethane	50.0	35.8		ug/kg		72	30 - 150
1,1-Dichloroethane	50.0	55.2		ug/kg		110	71 - 126
1,2-Dichloroethane	50.0	53.8		ug/kg		108	70 - 139
cis-1,2-Dichloroethene	50.0	54.9		ug/kg		110	75 - 126
1,1-Dichloroethene	50.0	54.2		ug/kg		108	70 - 125
trans-1,2-Dichloroethene	50.0	54.7		ug/kg		109	73 - 128
1,3-Dichloropropane	50.0	54.5		ug/kg		109	79 - 128
1,2-Dichloropropane	50.0	51.5		ug/kg		103	75 - 120
2,2-Dichloropropane	50.0	56.0		ug/kg		112	60 - 139
cis-1,3-Dichloropropene	50.0	58.6		ug/kg		117	74 - 136
trans-1,3-Dichloropropene	50.0	56.3		ug/kg		113	73 - 128
1,1-Dichloropropene	50.0	55.6		ug/kg		111	78 - 125
Ethylbenzene	50.0	54.7		ug/kg		109	79 - 130
Hexachlorobutadiene	50.0	58.7		ug/kg		117	75 - 150
2-Hexanone	250	262		ug/kg		105	65 - 150
Isopropylbenzene	50.0	59.4		ug/kg		119	65 - 121
p-Isopropyltoluene	50.0	56.2		ug/kg		112	76 - 133
Methyl tert-Butyl Ether	50.0	55.2		ug/kg		110	70 - 128
Methylene Chloride	50.0	57.6		ug/kg		115	69 - 140
4-Methyl-2-pentanone	250	265		ug/kg		106	67 - 147
Naphthalene	50.0	58.4		ug/kg		117	72 - 150
n-Propylbenzene	50.0	56.5		ug/kg		113	76 - 133
Styrene	50.0	54.5		ug/kg		109	80 - 140

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4149-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	53.9		ug/kg		108	80 - 132
1,1,2,2-Tetrachloroethane	50.0	54.7		ug/kg		109	75 - 135
Tetrachloroethene	50.0	55.2		ug/kg		110	76 - 130
Toluene	50.0	55.7		ug/kg		111	76 - 126
1,2,3-Trichlorobenzene	50.0	60.8		ug/kg		122	75 - 150
1,2,4-Trichlorobenzene	50.0	63.4		ug/kg		127	64 - 150
1,1,2-Trichloroethane	50.0	54.6		ug/kg		109	73 - 133
1,1,1-Trichloroethane	50.0	54.8		ug/kg		110	70 - 132
Trichloroethene	50.0	54.6		ug/kg		109	79 - 129
Trichlorofluoromethane	50.0	48.5		ug/kg		97	52 - 148
1,2,3-Trichloropropane	50.0	52.4		ug/kg		105	70 - 125
1,3,5-Trimethylbenzene	50.0	57.2		ug/kg		114	80 - 134
1,2,4-Trimethylbenzene	50.0	56.8		ug/kg		114	80 - 132
Vinyl chloride	50.0	45.4		ug/kg		91	53 - 142
Xylenes, total	150	165		ug/kg		110	80 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*101*		*67 - 138*
Dibromofluoromethane	*101*		*75 - 125*
Toluene-d8	*104*		*76 - 129*
4-Bromofluorobenzene	*101*		*67 - 147*

Lab Sample ID: 11F4149-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	250	269		ug/kg		108	60 - 150	10	50
Benzene	50.0	56.8		ug/kg		114	78 - 126	5	50
Bromobenzene	50.0	57.6		ug/kg		115	79 - 126	4	50
Bromochloromethane	50.0	56.6		ug/kg		113	78 - 126	3	50
Bromodichloromethane	50.0	55.2		ug/kg		110	75 - 129	5	50
Bromoform	50.0	56.9		ug/kg		114	74 - 133	7	43
Bromomethane	50.0	51.7		ug/kg		103	50 - 150	4	46
1,2-Dibromo-3-chloropropane	50.0	58.5		ug/kg		117	62 - 150	7	45
2-Butanone	250	279		ug/kg		112	68 - 149	9	50
sec-Butylbenzene	50.0	59.2		ug/kg		118	76 - 135	5	50
n-Butylbenzene	50.0	60.9		ug/kg		122	73 - 143	3	50
tert-Butylbenzene	50.0	58.0		ug/kg		116	80 - 129	4	50
Carbon disulfide	50.0	54.2		ug/kg		108	80 - 132	5	48
Carbon Tetrachloride	50.0	56.8		ug/kg		114	70 - 138	5	44
Chlorobenzene	50.0	57.0		ug/kg		114	80 - 123	5	50
Chlorodibromomethane	50.0	56.0		ug/kg		112	80 - 127	3	48
Chloroethane	50.0	59.5		ug/kg		119	55 - 150	0.9	50
Chloroform	50.0	54.9		ug/kg		110	70 - 127	4	50
Chloromethane	50.0	43.1		ug/kg		86	36 - 137	3	44
2-Chlorotoluene	50.0	57.5		ug/kg		115	80 - 130	5	50
4-Chlorotoluene	50.0	58.6		ug/kg		117	77 - 132	3	50
1,2-Dibromoethane (EDB)	50.0	56.2		ug/kg		112	80 - 131	3	45

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4149-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dibromomethane	50.0	56.1		ug/kg		112	78 - 128	4	50
1,4-Dichlorobenzene	50.0	60.6		ug/kg		121	80 - 129	5	50
1,3-Dichlorobenzene	50.0	59.4		ug/kg		119	80 - 131	4	50
1,2-Dichlorobenzene	50.0	59.1		ug/kg		118	80 - 127	3	50
Dichlorodifluoromethane	50.0	35.7		ug/kg		71	30 - 150	0.3	50
1,1-Dichloroethane	50.0	57.7		ug/kg		115	71 - 126	4	50
1,2-Dichloroethane	50.0	55.6		ug/kg		111	70 - 139	3	50
cis-1,2-Dichloroethene	50.0	57.3		ug/kg		115	75 - 126	4	50
1,1-Dichloroethene	50.0	57.1		ug/kg		114	70 - 125	5	50
trans-1,2-Dichloroethene	50.0	56.9		ug/kg		114	73 - 128	4	40
1,3-Dichloropropane	50.0	58.8		ug/kg		118	79 - 128	8	42
1,2-Dichloropropane	50.0	54.1		ug/kg		108	75 - 120	5	50
2,2-Dichloropropane	50.0	57.8		ug/kg		116	60 - 139	3	39
cis-1,3-Dichloropropene	50.0	61.0		ug/kg		122	74 - 136	4	50
trans-1,3-Dichloropropene	50.0	58.4		ug/kg		117	73 - 128	4	48
1,1-Dichloropropene	50.0	59.2		ug/kg		118	78 - 125	6	50
Ethylbenzene	50.0	56.9		ug/kg		114	79 - 130	4	50
Hexachlorobutadiene	50.0	59.0		ug/kg		118	75 - 150	0.6	50
2-Hexanone	250	283		ug/kg		113	65 - 150	8	50
Isopropylbenzene	50.0	62.4	L1	ug/kg		125	65 - 121	5	50
p-Isopropyltoluene	50.0	58.6		ug/kg		117	76 - 133	4	50
Methyl tert-Butyl Ether	50.0	57.7		ug/kg		115	70 - 128	4	50
Methylene Chloride	50.0	59.3		ug/kg		119	69 - 140	3	50
4-Methyl-2-pentanone	250	286		ug/kg		114	67 - 147	7	45
Naphthalene	50.0	60.9		ug/kg		122	72 - 150	4	50
n-Propylbenzene	50.0	58.7		ug/kg		117	76 - 133	4	50
Styrene	50.0	56.9		ug/kg		114	80 - 140	4	50
1,1,1,2-Tetrachloroethane	50.0	56.5		ug/kg		113	80 - 132	5	50
1,1,2,2-Tetrachloroethane	50.0	57.8		ug/kg		116	75 - 135	5	45
Tetrachloroethene	50.0	62.5		ug/kg		125	76 - 130	12	50
Toluene	50.0	58.0		ug/kg		116	76 - 126	4	50
1,2,3-Trichlorobenzene	50.0	63.0		ug/kg		126	75 - 150	3	50
1,2,4-Trichlorobenzene	50.0	65.2		ug/kg		130	64 - 150	3	50
1,1,2-Trichloroethane	50.0	59.5		ug/kg		119	73 - 133	9	50
1,1,1-Trichloroethane	50.0	57.8		ug/kg		116	70 - 132	5	41
Trichloroethene	50.0	56.2		ug/kg		112	79 - 129	3	50
Trichlorofluoromethane	50.0	50.8		ug/kg		102	52 - 148	5	47
1,2,3-Trichloropropane	50.0	56.7		ug/kg		113	70 - 125	8	47
1,3,5-Trimethylbenzene	50.0	59.2		ug/kg		118	80 - 134	3	50
1,2,4-Trimethylbenzene	50.0	58.8		ug/kg		118	80 - 132	3	50
Vinyl chloride	50.0	47.9		ug/kg		96	53 - 142	5	39
Xylenes, total	150	172		ug/kg		115	80 - 130	4	50

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*102*		*67 - 138*
Dibromofluoromethane	*101*		*75 - 125*
Toluene-d8	*104*		*76 - 129*
4-Bromofluorobenzene	*100*		*67 - 147*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4149-MS1 **Client Sample ID: F-03A(4-5')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	0.230	PX	0.251	0.480		mg/kg dry	☼	99	29 - 181
Benzene	ND	PX	0.0502	0.0569		mg/kg dry	☼	113	42 - 141
Bromobenzene	ND	PX	0.0502	0.0575		mg/kg dry	☼	114	19 - 154
Bromochloromethane	ND	PX	0.0502	0.0571		mg/kg dry	☼	114	41 - 146
Bromodichloromethane	ND	PX	0.0502	0.0547		mg/kg dry	☼	109	32 - 155
Bromoform	ND	PX	0.0502	0.0529		mg/kg dry	☼	105	10 - 155
Bromomethane	ND	PX	0.0502	0.0509		mg/kg dry	☼	101	10 - 199
1,2-Dibromo-3-chloropropane	ND	PX	0.0502	0.0513		mg/kg dry	☼	102	10 - 167
2-Butanone	ND	PX	0.251	0.273		mg/kg dry	☼	109	38 - 161
sec-Butylbenzene	ND	PX	0.0502	0.0621		mg/kg dry	☼	124	10 - 170
n-Butylbenzene	ND	PX	0.0502	0.0609		mg/kg dry	☼	121	10 - 183
tert-Butylbenzene	ND	PX	0.0502	0.0611		mg/kg dry	☼	122	11 - 165
Carbon disulfide	0.00160	PX	0.0502	0.0571		mg/kg dry	☼	110	50 - 136
Carbon Tetrachloride	ND	PX	0.0502	0.0582		mg/kg dry	☼	116	30 - 159
Chlorobenzene	ND	PX	0.0502	0.0572		mg/kg dry	☼	114	25 - 151
Chlorodibromomethane	ND	PX	0.0502	0.0553		mg/kg dry	☼	110	27 - 150
Chloroethane	ND	PX	0.0502	0.0601		mg/kg dry	☼	120	15 - 197
Chloroform	0.000755	PX	0.0502	0.0556		mg/kg dry	☼	109	33 - 148
Chloromethane	ND	PX	0.0502	0.0435		mg/kg dry	☼	87	10 - 166
2-Chlorotoluene	ND	PX	0.0502	0.0589		mg/kg dry	☼	117	25 - 166
4-Chlorotoluene	ND	PX	0.0502	0.0604		mg/kg dry	☼	120	19 - 163
1,2-Dibromoethane (EDB)	ND	PX	0.0502	0.0549		mg/kg dry	☼	109	30 - 155
Dibromomethane	ND	PX	0.0502	0.0541		mg/kg dry	☼	108	30 - 149
1,4-Dichlorobenzene	ND	PX	0.0502	0.0586		mg/kg dry	☼	117	10 - 170
1,3-Dichlorobenzene	ND	PX	0.0502	0.0583		mg/kg dry	☼	116	10 - 173
1,2-Dichlorobenzene	ND	PX	0.0502	0.0572		mg/kg dry	☼	114	10 - 168
Dichlorodifluoromethane	ND	PX	0.0502	0.0382		mg/kg dry	☼	76	10 - 188
1,1-Dichloroethane	ND	PX	0.0502	0.0586		mg/kg dry	☼	117	51 - 135
1,2-Dichloroethane	ND	PX	0.0502	0.0550		mg/kg dry	☼	109	32 - 155
cis-1,2-Dichloroethene	ND	PX	0.0502	0.0577		mg/kg dry	☼	115	32 - 150
1,1-Dichloroethene	ND	PX	0.0502	0.0584		mg/kg dry	☼	116	46 - 141
trans-1,2-Dichloroethene	ND	PX	0.0502	0.0574		mg/kg dry	☼	114	41 - 146
1,3-Dichloropropane	ND	PX	0.0502	0.0574		mg/kg dry	☼	114	35 - 148
1,2-Dichloropropane	ND	PX	0.0502	0.0538		mg/kg dry	☼	107	34 - 139
2,2-Dichloropropane	ND	PX	0.0502	0.0596		mg/kg dry	☼	119	29 - 152
cis-1,3-Dichloropropene	ND	PX	0.0502	0.0597		mg/kg dry	☼	119	23 - 152
trans-1,3-Dichloropropene	ND	PX	0.0502	0.0550		mg/kg dry	☼	109	24 - 151
1,1-Dichloropropene	ND	PX	0.0502	0.0606		mg/kg dry	☼	121	40 - 151
Ethylbenzene	0.00208	PX	0.0502	0.0594		mg/kg dry	☼	114	21 - 165
Hexachlorobutadiene	ND	PX	0.0502	0.0517		mg/kg dry	☼	103	10 - 173
2-Hexanone	ND	PX	0.251	0.217		mg/kg dry	☼	86	13 - 174
Isopropylbenzene	ND	PX L	0.0502	0.0648		mg/kg dry	☼	129	20 - 139
p-Isopropyltoluene	0.00618	PX	0.0502	0.0663		mg/kg dry	☼	120	10 - 164
Methyl tert-Butyl Ether	ND	PX	0.0502	0.0552		mg/kg dry	☼	110	34 - 154
Methylene Chloride	0.00664	PX	0.0502	0.0631		mg/kg dry	☼	112	36 - 163
4-Methyl-2-pentanone	ND	PX	0.251	0.269		mg/kg dry	☼	107	19 - 176
Naphthalene	0.00317	PX	0.0502	0.0489		mg/kg dry	☼	91	10 - 160
n-Propylbenzene	ND	PX	0.0502	0.0629		mg/kg dry	☼	125	16 - 174
Styrene	ND	PX	0.0502	0.0530		mg/kg dry	☼	105	10 - 177

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4149-MS1 **Client Sample ID: F-03A(4-5')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	ND	PX	0.0502	0.0571		mg/kg dry	☼	114	31 - 150
1,1,2,2-Tetrachloroethane	ND	PX	0.0502	0.0578		mg/kg dry	☼	115	27 - 163
Tetrachloroethene	ND	PX	0.0502	0.0645		mg/kg dry	☼	128	33 - 155
Toluene	0.00112	PX	0.0502	0.0596		mg/kg dry	☼	116	45 - 145
1,2,3-Trichlorobenzene	ND	PX	0.0502	0.0476		mg/kg dry	☼	95	10 - 182
1,2,4-Trichlorobenzene	ND	PX	0.0502	0.0478		mg/kg dry	☼	95	10 - 175
1,1,2-Trichloroethane	ND	PX	0.0502	0.0584		mg/kg dry	☼	116	43 - 145
1,1,1-Trichloroethane	ND	PX	0.0502	0.0590		mg/kg dry	☼	118	39 - 148
Trichloroethene	ND	PX	0.0502	0.0570		mg/kg dry	☼	114	39 - 150
Trichlorofluoromethane	ND	PX	0.0502	0.0530		mg/kg dry	☼	106	25 - 174
1,2,3-Trichloropropane	ND	PX	0.0502	0.0548		mg/kg dry	☼	109	10 - 152
1,3,5-Trimethylbenzene	ND	PX	0.0502	0.0615		mg/kg dry	☼	122	38 - 148
1,2,4-Trimethylbenzene	0.00273	PX	0.0502	0.0607		mg/kg dry	☼	115	22 - 164
Vinyl chloride	ND	PX	0.0502	0.0481		mg/kg dry	☼	96	32 - 163
Xylenes, total	0.00740	PX	0.151	0.176		mg/kg dry	☼	112	31 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*100*		*67 - 138*
Dibromofluoromethane	*102*		*75 - 125*
Toluene-d8	*104*		*76 - 129*
4-Bromofluorobenzene	*102*		*67 - 147*

Lab Sample ID: 11F4149-MSD1 **Client Sample ID: F-03A(4-5')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	0.230	PX	0.251	0.461		mg/kg dry	☼	92	29 - 181	4	50
Benzene	ND	PX	0.0501	0.0581		mg/kg dry	☼	116	42 - 141	2	50
Bromobenzene	ND	PX	0.0501	0.0613		mg/kg dry	☼	122	19 - 154	7	50
Bromochloromethane	ND	PX	0.0501	0.0578		mg/kg dry	☼	115	41 - 146	1	50
Bromodichloromethane	ND	PX	0.0501	0.0555		mg/kg dry	☼	111	32 - 155	2	50
Bromoform	ND	PX	0.0501	0.0557		mg/kg dry	☼	111	10 - 155	5	43
Bromomethane	ND	PX	0.0501	0.0526		mg/kg dry	☼	105	10 - 199	3	46
1,2-Dibromo-3-chloropropane	ND	PX	0.0501	0.0535		mg/kg dry	☼	107	10 - 167	4	45
2-Butanone	ND	PX	0.251	0.281		mg/kg dry	☼	112	38 - 161	3	50
sec-Butylbenzene	ND	PX	0.0501	0.0620		mg/kg dry	☼	124	10 - 170	0.1	50
n-Butylbenzene	ND	PX	0.0501	0.0589		mg/kg dry	☼	117	10 - 183	3	50
tert-Butylbenzene	ND	PX	0.0501	0.0632		mg/kg dry	☼	126	11 - 165	3	50
Carbon disulfide	0.00160	PX	0.0501	0.0669		mg/kg dry	☼	130	50 - 136	16	48
Carbon Tetrachloride	ND	PX	0.0501	0.0590		mg/kg dry	☼	118	30 - 159	1	44
Chlorobenzene	ND	PX	0.0501	0.0612		mg/kg dry	☼	122	25 - 151	7	50
Chlorodibromomethane	ND	PX	0.0501	0.0596		mg/kg dry	☼	119	27 - 150	8	48
Chloroethane	ND	PX	0.0501	0.0630		mg/kg dry	☼	126	15 - 197	5	50
Chloroform	0.000755	PX	0.0501	0.0571		mg/kg dry	☼	112	33 - 148	3	50
Chloromethane	ND	PX	0.0501	0.0441		mg/kg dry	☼	88	10 - 166	1	44
2-Chlorotoluene	ND	PX	0.0501	0.0635		mg/kg dry	☼	127	25 - 166	7	50
4-Chlorotoluene	ND	PX	0.0501	0.0642		mg/kg dry	☼	128	19 - 163	6	50
1,2-Dibromoethane (EDB)	ND	PX	0.0501	0.0587		mg/kg dry	☼	117	30 - 155	7	45

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4149-MSD1 **Client Sample ID: F-03A(4-5')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010630 **Prep Batch: 11F4149_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dibromomethane	ND	PX	0.0501	0.0553		mg/kg dry	☼	110	30 - 149	2	50
1,4-Dichlorobenzene	ND	PX	0.0501	0.0613		mg/kg dry	☼	122	10 - 170	5	50
1,3-Dichlorobenzene	ND	PX	0.0501	0.0607		mg/kg dry	☼	121	10 - 173	4	50
1,2-Dichlorobenzene	ND	PX	0.0501	0.0597		mg/kg dry	☼	119	10 - 168	4	50
Dichlorodifluoromethane	ND	PX	0.0501	0.0364		mg/kg dry	☼	73	10 - 188	5	50
1,1-Dichloroethane	ND	PX	0.0501	0.0602		mg/kg dry	☼	120	51 - 135	3	50
1,2-Dichloroethane	ND	PX	0.0501	0.0561		mg/kg dry	☼	112	32 - 155	2	50
cis-1,2-Dichloroethene	ND	PX	0.0501	0.0585		mg/kg dry	☼	117	32 - 150	1	50
1,1-Dichloroethene	ND	PX	0.0501	0.0586		mg/kg dry	☼	117	46 - 141	0.4	50
trans-1,2-Dichloroethene	ND	PX	0.0501	0.0589		mg/kg dry	☼	118	41 - 146	3	40
1,3-Dichloropropane	ND	PX	0.0501	0.0612		mg/kg dry	☼	122	35 - 148	6	42
1,2-Dichloropropane	ND	PX	0.0501	0.0554		mg/kg dry	☼	111	34 - 139	3	50
2,2-Dichloropropane	ND	PX	0.0501	0.0608		mg/kg dry	☼	121	29 - 152	2	39
cis-1,3-Dichloropropene	ND	PX	0.0501	0.0645		mg/kg dry	☼	129	23 - 152	8	50
trans-1,3-Dichloropropene	ND	PX	0.0501	0.0597		mg/kg dry	☼	119	24 - 151	8	48
1,1-Dichloropropene	ND	PX	0.0501	0.0614		mg/kg dry	☼	122	40 - 151	1	50
Ethylbenzene	0.00208	PX	0.0501	0.0642		mg/kg dry	☼	124	21 - 165	8	50
Hexachlorobutadiene	ND	PX	0.0501	0.0385		mg/kg dry	☼	77	10 - 173	29	50
2-Hexanone	ND	PX	0.251	0.231		mg/kg dry	☼	92	13 - 174	6	50
Isopropylbenzene	ND	PX L	0.0501	0.0684		mg/kg dry	☼	136	20 - 139	5	50
p-Isopropyltoluene	0.00618	PX	0.0501	0.0745		mg/kg dry	☼	136	10 - 164	12	50
Methyl tert-Butyl Ether	ND	PX	0.0501	0.0566		mg/kg dry	☼	113	34 - 154	2	50
Methylene Chloride	0.00664	PX	0.0501	0.0633		mg/kg dry	☼	113	36 - 163	0.3	50
4-Methyl-2-pentanone	ND	PX	0.251	0.292		mg/kg dry	☼	116	19 - 176	8	45
Naphthalene	0.00317	PX	0.0501	0.0511		mg/kg dry	☼	95	10 - 160	4	50
n-Propylbenzene	ND	PX	0.0501	0.0660		mg/kg dry	☼	132	16 - 174	5	50
Styrene	ND	PX	0.0501	0.0489		mg/kg dry	☼	98	10 - 177	8	50
1,1,1,2-Tetrachloroethane	ND	PX	0.0501	0.0609		mg/kg dry	☼	122	31 - 150	6	50
1,1,2,2-Tetrachloroethane	ND	PX	0.0501	0.0620		mg/kg dry	☼	124	27 - 163	7	45
Tetrachloroethene	ND	PX	0.0501	0.0690		mg/kg dry	☼	138	33 - 155	7	50
Toluene	0.00112	PX	0.0501	0.0651		mg/kg dry	☼	127	45 - 145	9	50
1,2,3-Trichlorobenzene	ND	PX	0.0501	0.0459		mg/kg dry	☼	92	10 - 182	4	50
1,2,4-Trichlorobenzene	ND	PX	0.0501	0.0483		mg/kg dry	☼	96	10 - 175	1	50
1,1,2-Trichloroethane	ND	PX	0.0501	0.0627		mg/kg dry	☼	125	43 - 145	7	50
1,1,1-Trichloroethane	ND	PX	0.0501	0.0592		mg/kg dry	☼	118	39 - 148	0.3	41
Trichloroethene	ND	PX	0.0501	0.0578		mg/kg dry	☼	115	39 - 150	1	50
Trichlorofluoromethane	ND	PX	0.0501	0.0532		mg/kg dry	☼	106	25 - 174	0.3	47
1,2,3-Trichloropropane	ND	PX	0.0501	0.0573		mg/kg dry	☼	114	10 - 152	4	47
1,3,5-Trimethylbenzene	ND	PX	0.0501	0.0657		mg/kg dry	☼	131	38 - 148	7	50
1,2,4-Trimethylbenzene	0.00273	PX	0.0501	0.0645		mg/kg dry	☼	123	22 - 164	6	50
Vinyl chloride	ND	PX	0.0501	0.0484		mg/kg dry	☼	97	32 - 163	0.7	39
Xylenes, total	0.00740	PX	0.150	0.188		mg/kg dry	☼	120	31 - 159	7	50

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*96*		*67 - 138*
Dibromofluoromethane	*96*		*75 - 125*
Toluene-d8	*105*		*76 - 129*
4-Bromofluorobenzene	*104*		*67 - 147*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4529-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010726 **Prep Batch: 11F4529_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Benzene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Bromobenzene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Bromochloromethane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Bromodichloromethane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Bromoform	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Bromomethane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,2-Dibromo-3-chloropropane	ND		0.00500		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
2-Butanone	ND		0.0500		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
sec-Butylbenzene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
n-Butylbenzene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
tert-Butylbenzene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Carbon disulfide	ND		0.00500		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Carbon Tetrachloride	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Chlorobenzene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Chlorodibromomethane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Chloroethane	ND		0.00500		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Chloroform	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Chloromethane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
2-Chlorotoluene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
4-Chlorotoluene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,2-Dibromoethane (EDB)	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Dibromomethane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,4-Dichlorobenzene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,3-Dichlorobenzene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,2-Dichlorobenzene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Dichlorodifluoromethane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,1-Dichloroethane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,2-Dichloroethane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
cis-1,2-Dichloroethene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,1-Dichloroethene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
trans-1,2-Dichloroethene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,3-Dichloropropane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,2-Dichloropropane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
2,2-Dichloropropane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
cis-1,3-Dichloropropene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
trans-1,3-Dichloropropene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,1-Dichloropropene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Ethylbenzene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Hexachlorobutadiene	ND		0.00500		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
2-Hexanone	ND		0.0500		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Isopropylbenzene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
p-Isopropyltoluene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Methyl tert-Butyl Ether	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Methylene Chloride	ND		0.0100		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
4-Methyl-2-pentanone	ND		0.0500		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Naphthalene	ND		0.00500		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
n-Propylbenzene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Styrene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4529-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010726 **Prep Batch: 11F4529_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Tetrachloroethene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Toluene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,2,3-Trichlorobenzene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,2,4-Trichlorobenzene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,1,2-Trichloroethane	ND		0.00500		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,1,1-Trichloroethane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Trichloroethene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Trichlorofluoromethane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,2,3-Trichloropropane	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,3,5-Trimethylbenzene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
1,2,4-Trimethylbenzene	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Vinyl chloride	ND		0.00200		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00
Xylenes, total	ND		0.00500		mg/kg wet		06/17/11 10:16	06/17/11 13:02	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*93*		*67 - 138*	*06/17/11 10:16*	*06/17/11 13:02*	*1.00*
Dibromofluoromethane	*93*		*75 - 125*	*06/17/11 10:16*	*06/17/11 13:02*	*1.00*
Toluene-d8	*103*		*76 - 129*	*06/17/11 10:16*	*06/17/11 13:02*	*1.00*
4-Bromofluorobenzene	*100*		*67 - 147*	*06/17/11 10:16*	*06/17/11 13:02*	*1.00*

Lab Sample ID: 11F4529-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010726 **Prep Batch: 11F4529_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.50		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Benzene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Bromobenzene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Bromochloromethane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Bromodichloromethane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Bromoform	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Bromomethane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,2-Dibromo-3-chloropropane	ND		0.250		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
2-Butanone	ND		2.50		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
sec-Butylbenzene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
n-Butylbenzene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
tert-Butylbenzene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Carbon disulfide	ND		0.250		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Carbon Tetrachloride	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Chlorobenzene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Chlorodibromomethane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Chloroethane	ND		0.250		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Chloroform	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Chloromethane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
2-Chlorotoluene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
4-Chlorotoluene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,2-Dibromoethane (EDB)	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4529-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010726 **Prep Batch: 11F4529_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,4-Dichlorobenzene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,3-Dichlorobenzene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,2-Dichlorobenzene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Dichlorodifluoromethane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,1-Dichloroethane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,2-Dichloroethane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
cis-1,2-Dichloroethene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,1-Dichloroethene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
trans-1,2-Dichloroethene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,3-Dichloropropane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,2-Dichloropropane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
2,2-Dichloropropane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
cis-1,3-Dichloropropene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
trans-1,3-Dichloropropene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,1-Dichloropropene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Ethylbenzene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Hexachlorobutadiene	ND		0.250		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
2-Hexanone	ND		2.50		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Isopropylbenzene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
p-Isopropyltoluene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Methyl tert-Butyl Ether	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Methylene Chloride	ND		0.500		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
4-Methyl-2-pentanone	ND		2.50		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Naphthalene	ND		0.250		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
n-Propylbenzene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Styrene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,1,1,2-Tetrachloroethane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,1,2,2-Tetrachloroethane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Tetrachloroethene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Toluene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,2,3-Trichlorobenzene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,2,4-Trichlorobenzene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,1,2-Trichloroethane	ND		0.250		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,1,1-Trichloroethane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Trichloroethene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Trichlorofluoromethane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,2,3-Trichloropropane	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,3,5-Trimethylbenzene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
1,2,4-Trimethylbenzene	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Vinyl chloride	ND		0.100		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0
Xylenes, total	ND		0.250		mg/kg wet		06/17/11 10:16	06/17/11 13:30	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*99*		*67 - 138*	*06/17/11 10:16*	*06/17/11 13:30*	*50.0*
Dibromofluoromethane	*100*		*75 - 125*	*06/17/11 10:16*	*06/17/11 13:30*	*50.0*
Toluene-d8	*103*		*76 - 129*	*06/17/11 10:16*	*06/17/11 13:30*	*50.0*
4-Bromofluorobenzene	*100*		*67 - 147*	*06/17/11 10:16*	*06/17/11 13:30*	*50.0*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4529-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010726 **Prep Batch: 11F4529_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	264		ug/kg		105	60 - 150
Benzene	50.0	55.2		ug/kg		110	78 - 126
Bromobenzene	50.0	56.4		ug/kg		113	79 - 126
Bromochloromethane	50.0	56.1		ug/kg		112	78 - 126
Bromodichloromethane	50.0	53.0		ug/kg		106	75 - 129
Bromoform	50.0	52.1		ug/kg		104	74 - 133
Bromomethane	50.0	50.2		ug/kg		100	50 - 150
1,2-Dibromo-3-chloropropane	50.0	55.9		ug/kg		112	62 - 150
2-Butanone	250	274		ug/kg		110	68 - 149
sec-Butylbenzene	50.0	57.8		ug/kg		116	76 - 135
n-Butylbenzene	50.0	59.3		ug/kg		119	73 - 143
tert-Butylbenzene	50.0	56.5		ug/kg		113	80 - 129
Carbon disulfide	50.0	52.6		ug/kg		105	80 - 132
Carbon Tetrachloride	50.0	55.0		ug/kg		110	70 - 138
Chlorobenzene	50.0	55.3		ug/kg		111	80 - 123
Chlorodibromomethane	50.0	50.7		ug/kg		101	80 - 127
Chloroethane	50.0	58.1		ug/kg		116	55 - 150
Chloroform	50.0	53.6		ug/kg		107	70 - 127
Chloromethane	50.0	43.7		ug/kg		87	36 - 137
2-Chlorotoluene	50.0	55.6		ug/kg		111	80 - 130
4-Chlorotoluene	50.0	57.1		ug/kg		114	77 - 132
1,2-Dibromoethane (EDB)	50.0	55.3		ug/kg		111	80 - 131
Dibromomethane	50.0	56.4		ug/kg		113	78 - 128
1,4-Dichlorobenzene	50.0	57.6		ug/kg		115	80 - 129
1,3-Dichlorobenzene	50.0	57.6		ug/kg		115	80 - 131
1,2-Dichlorobenzene	50.0	56.8		ug/kg		114	80 - 127
Dichlorodifluoromethane	50.0	43.7		ug/kg		87	30 - 150
1,1-Dichloroethane	50.0	56.2		ug/kg		112	71 - 126
1,2-Dichloroethane	50.0	55.5		ug/kg		111	70 - 139
cis-1,2-Dichloroethene	50.0	55.8		ug/kg		112	75 - 126
1,1-Dichloroethene	50.0	57.0		ug/kg		114	70 - 125
trans-1,2-Dichloroethene	50.0	55.4		ug/kg		111	73 - 128
1,3-Dichloropropane	50.0	56.2		ug/kg		112	79 - 128
1,2-Dichloropropane	50.0	52.7		ug/kg		105	75 - 120
2,2-Dichloropropane	50.0	57.7		ug/kg		115	60 - 139
cis-1,3-Dichloropropene	50.0	59.6		ug/kg		119	74 - 136
trans-1,3-Dichloropropene	50.0	56.3		ug/kg		113	73 - 128
1,1-Dichloropropene	50.0	57.2		ug/kg		114	78 - 125
Ethylbenzene	50.0	55.7		ug/kg		111	79 - 130
Hexachlorobutadiene	50.0	56.5		ug/kg		113	75 - 150
2-Hexanone	250	274		ug/kg		110	65 - 150
Isopropylbenzene	50.0	60.4		ug/kg		121	65 - 121
p-Isopropyltoluene	50.0	57.1		ug/kg		114	76 - 133
Methyl tert-Butyl Ether	50.0	55.6		ug/kg		111	70 - 128
Methylene Chloride	50.0	57.7		ug/kg		115	69 - 140
4-Methyl-2-pentanone	250	284		ug/kg		113	67 - 147
Naphthalene	50.0	59.8		ug/kg		120	72 - 150
n-Propylbenzene	50.0	57.6		ug/kg		115	76 - 133
Styrene	50.0	55.2		ug/kg		110	80 - 140

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4529-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010726 **Prep Batch: 11F4529_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	54.1		ug/kg		108	80 - 132
1,1,2,2-Tetrachloroethane	50.0	57.0		ug/kg		114	75 - 135
Tetrachloroethene	50.0	56.9		ug/kg		114	76 - 130
Toluene	50.0	55.8		ug/kg		112	76 - 126
1,2,3-Trichlorobenzene	50.0	60.2		ug/kg		120	75 - 150
1,2,4-Trichlorobenzene	50.0	62.6		ug/kg		125	64 - 150
1,1,2-Trichloroethane	50.0	55.1		ug/kg		110	73 - 133
1,1,1-Trichloroethane	50.0	56.3		ug/kg		113	70 - 132
Trichloroethene	50.0	54.4		ug/kg		109	79 - 129
Trichlorofluoromethane	50.0	50.1		ug/kg		100	52 - 148
1,2,3-Trichloropropane	50.0	56.6		ug/kg		113	70 - 125
1,3,5-Trimethylbenzene	50.0	57.8		ug/kg		116	80 - 134
1,2,4-Trimethylbenzene	50.0	56.4		ug/kg		113	80 - 132
Vinyl chloride	50.0	47.3		ug/kg		95	53 - 142
Xylenes, total	150	166		ug/kg		111	80 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*102*		*67 - 138*
Dibromofluoromethane	*102*		*75 - 125*
Toluene-d8	*104*		*76 - 129*
4-Bromofluorobenzene	*101*		*67 - 147*

Lab Sample ID: 11F4529-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010726 **Prep Batch: 11F4529_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	250	264		ug/kg		106	60 - 150	0.2	50
Benzene	50.0	55.1		ug/kg		110	78 - 126	0.2	50
Bromobenzene	50.0	56.4		ug/kg		113	79 - 126	0.09	50
Bromochloromethane	50.0	56.1		ug/kg		112	78 - 126	0.05	50
Bromodichloromethane	50.0	53.0		ug/kg		106	75 - 129	0.08	50
Bromoform	50.0	51.8		ug/kg		104	74 - 133	0.5	43
Bromomethane	50.0	50.7		ug/kg		101	50 - 150	0.8	46
1,2-Dibromo-3-chloropropane	50.0	56.1		ug/kg		112	62 - 150	0.3	45
2-Butanone	250	278		ug/kg		111	68 - 149	1	50
sec-Butylbenzene	50.0	57.1		ug/kg		114	76 - 135	1	50
n-Butylbenzene	50.0	58.1		ug/kg		116	73 - 143	2	50
tert-Butylbenzene	50.0	56.7		ug/kg		113	80 - 129	0.4	50
Carbon disulfide	50.0	52.4		ug/kg		105	80 - 132	0.5	48
Carbon Tetrachloride	50.0	54.3		ug/kg		109	70 - 138	1	44
Chlorobenzene	50.0	55.1		ug/kg		110	80 - 123	0.3	50
Chlorodibromomethane	50.0	53.7		ug/kg		107	80 - 127	6	48
Chloroethane	50.0	58.8		ug/kg		118	55 - 150	1	50
Chloroform	50.0	53.5		ug/kg		107	70 - 127	0.2	50
Chloromethane	50.0	43.8		ug/kg		88	36 - 137	0.3	44
2-Chlorotoluene	50.0	55.4		ug/kg		111	80 - 130	0.3	50
4-Chlorotoluene	50.0	56.7		ug/kg		113	77 - 132	0.6	50
1,2-Dibromoethane (EDB)	50.0	56.0		ug/kg		112	80 - 131	1	45

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4529-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010726 **Prep Batch: 11F4529_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dibromomethane	50.0	54.1		ug/kg		108	78 - 128	4	50
1,4-Dichlorobenzene	50.0	58.2		ug/kg		116	80 - 129	1	50
1,3-Dichlorobenzene	50.0	57.1		ug/kg		114	80 - 131	0.8	50
1,2-Dichlorobenzene	50.0	57.7		ug/kg		115	80 - 127	2	50
Dichlorodifluoromethane	50.0	37.2		ug/kg		74	30 - 150	16	50
1,1-Dichloroethane	50.0	56.6		ug/kg		113	71 - 126	0.7	50
1,2-Dichloroethane	50.0	55.4		ug/kg		111	70 - 139	0.3	50
cis-1,2-Dichloroethene	50.0	55.5		ug/kg		111	75 - 126	0.5	50
1,1-Dichloroethene	50.0	55.4		ug/kg		111	70 - 125	3	50
trans-1,2-Dichloroethene	50.0	55.3		ug/kg		111	73 - 128	0.3	40
1,3-Dichloropropane	50.0	56.6		ug/kg		113	79 - 128	0.6	42
1,2-Dichloropropane	50.0	53.1		ug/kg		106	75 - 120	0.8	50
2,2-Dichloropropane	50.0	56.4		ug/kg		113	60 - 139	2	39
cis-1,3-Dichloropropene	50.0	59.0		ug/kg		118	74 - 136	1	50
trans-1,3-Dichloropropene	50.0	55.9		ug/kg		112	73 - 128	0.7	48
1,1-Dichloropropene	50.0	56.7		ug/kg		113	78 - 125	1	50
Ethylbenzene	50.0	55.1		ug/kg		110	79 - 130	1	50
Hexachlorobutadiene	50.0	56.5		ug/kg		113	75 - 150	0.04	50
2-Hexanone	250	282		ug/kg		113	65 - 150	3	50
Isopropylbenzene	50.0	60.1		ug/kg		120	65 - 121	0.4	50
p-Isopropyltoluene	50.0	56.6		ug/kg		113	76 - 133	0.7	50
Methyl tert-Butyl Ether	50.0	56.3		ug/kg		113	70 - 128	1	50
Methylene Chloride	50.0	58.2		ug/kg		116	69 - 140	0.9	50
4-Methyl-2-pentanone	250	283		ug/kg		113	67 - 147	0.2	45
Naphthalene	50.0	60.2		ug/kg		120	72 - 150	0.7	50
n-Propylbenzene	50.0	56.5		ug/kg		113	76 - 133	2	50
Styrene	50.0	55.3		ug/kg		111	80 - 140	0.1	50
1,1,1,2-Tetrachloroethane	50.0	54.4		ug/kg		109	80 - 132	0.5	50
1,1,2,2-Tetrachloroethane	50.0	57.4		ug/kg		115	75 - 135	0.8	45
Tetrachloroethene	50.0	54.8		ug/kg		110	76 - 130	4	50
Toluene	50.0	55.6		ug/kg		111	76 - 126	0.5	50
1,2,3-Trichlorobenzene	50.0	60.6		ug/kg		121	75 - 150	0.6	50
1,2,4-Trichlorobenzene	50.0	61.9		ug/kg		124	64 - 150	1	50
1,1,2-Trichloroethane	50.0	56.0		ug/kg		112	73 - 133	2	50
1,1,1-Trichloroethane	50.0	56.4		ug/kg		113	70 - 132	0.1	41
Trichloroethene	50.0	55.0		ug/kg		110	79 - 129	1	50
Trichlorofluoromethane	50.0	48.5		ug/kg		97	52 - 148	3	47
1,2,3-Trichloropropane	50.0	56.8		ug/kg		114	70 - 125	0.5	47
1,3,5-Trimethylbenzene	50.0	57.6		ug/kg		115	80 - 134	0.4	50
1,2,4-Trimethylbenzene	50.0	56.4		ug/kg		113	80 - 132	0.04	50
Vinyl chloride	50.0	46.7		ug/kg		93	53 - 142	1	39
Xylenes, total	150	165		ug/kg		110	80 - 130	0.7	50

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*102*		*67 - 138*
Dibromofluoromethane	*101*		*75 - 125*
Toluene-d8	*103*		*76 - 129*
4-Bromofluorobenzene	*101*		*67 - 147*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4529-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010726 **Prep Batch: 11F4529_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	ND		0.235	0.300		mg/kg wet		128	29 - 181
Benzene	ND		0.0470	0.0487		mg/kg wet		104	42 - 141
Bromobenzene	ND		0.0470	0.0462		mg/kg wet		98	19 - 154
Bromochloromethane	ND		0.0470	0.0485		mg/kg wet		103	41 - 146
Bromodichloromethane	ND		0.0470	0.0450		mg/kg wet		96	32 - 155
Bromoform	ND		0.0470	0.0437		mg/kg wet		93	10 - 155
Bromomethane	ND		0.0470	0.0415		mg/kg wet		88	10 - 199
1,2-Dibromo-3-chloropropane	ND		0.0470	0.0525		mg/kg wet		112	10 - 167
2-Butanone	ND		0.235	0.305		mg/kg wet		130	38 - 161
sec-Butylbenzene	ND		0.0470	0.0488		mg/kg wet		104	10 - 170
n-Butylbenzene	ND		0.0470	0.0413		mg/kg wet		88	10 - 183
tert-Butylbenzene	ND		0.0470	0.0511		mg/kg wet		109	11 - 165
Carbon disulfide	0.000854		0.0470	0.0486		mg/kg wet		102	50 - 136
Carbon Tetrachloride	ND		0.0470	0.0482		mg/kg wet		103	30 - 159
Chlorobenzene	ND		0.0470	0.0444		mg/kg wet		94	25 - 151
Chlorodibromomethane	ND		0.0470	0.0441		mg/kg wet		94	27 - 150
Chloroethane	ND		0.0470	0.0542		mg/kg wet		115	15 - 197
Chloroform	0.00224		0.0470	0.0505		mg/kg wet		103	33 - 148
Chloromethane	ND		0.0470	0.0357		mg/kg wet		76	10 - 166
2-Chlorotoluene	ND		0.0470	0.0462		mg/kg wet		98	25 - 166
4-Chlorotoluene	ND		0.0470	0.0443		mg/kg wet		94	19 - 163
1,2-Dibromoethane (EDB)	ND		0.0470	0.0451		mg/kg wet		96	30 - 155
Dibromomethane	ND		0.0470	0.0475		mg/kg wet		101	30 - 149
1,4-Dichlorobenzene	ND		0.0470	0.0416		mg/kg wet		89	10 - 170
1,3-Dichlorobenzene	ND		0.0470	0.0413		mg/kg wet		88	10 - 173
1,2-Dichlorobenzene	ND		0.0470	0.0417		mg/kg wet		89	10 - 168
Dichlorodifluoromethane	ND		0.0470	0.0418		mg/kg wet		89	10 - 188
1,1-Dichloroethane	ND		0.0470	0.0498		mg/kg wet		106	51 - 135
1,2-Dichloroethane	0.00210		0.0470	0.0477		mg/kg wet		97	32 - 155
cis-1,2-Dichloroethene	0.00169		0.0470	0.0490		mg/kg wet		101	32 - 150
1,1-Dichloroethene	ND		0.0470	0.0499		mg/kg wet		106	46 - 141
trans-1,2-Dichloroethene	ND		0.0470	0.0486		mg/kg wet		103	41 - 146
1,3-Dichloropropane	ND		0.0470	0.0478		mg/kg wet		102	35 - 148
1,2-Dichloropropane	ND		0.0470	0.0461		mg/kg wet		98	34 - 139
2,2-Dichloropropane	ND		0.0470	0.0509		mg/kg wet		108	29 - 152
cis-1,3-Dichloropropene	ND		0.0470	0.0500		mg/kg wet		106	23 - 152
trans-1,3-Dichloropropene	ND		0.0470	0.0452		mg/kg wet		96	24 - 151
1,1-Dichloropropene	ND		0.0470	0.0498		mg/kg wet		106	40 - 151
Ethylbenzene	ND		0.0470	0.0461		mg/kg wet		98	21 - 165
Hexachlorobutadiene	ND		0.0470	0.0402		mg/kg wet		86	10 - 173
2-Hexanone	ND		0.235	0.280		mg/kg wet		119	13 - 174
Isopropylbenzene	ND		0.0470	0.0504		mg/kg wet		107	20 - 139
p-Isopropyltoluene	ND		0.0470	0.0469		mg/kg wet		100	10 - 164
Methyl tert-Butyl Ether	ND		0.0470	0.0511		mg/kg wet		109	34 - 154
Methylene Chloride	ND		0.0470	0.0535		mg/kg wet		114	36 - 163
4-Methyl-2-pentanone	0.00368		0.235	0.295		mg/kg wet		124	19 - 176
Naphthalene	ND		0.0470	0.0368		mg/kg wet		78	10 - 160
n-Propylbenzene	ND		0.0470	0.0480		mg/kg wet		102	16 - 174
Styrene	ND		0.0470	0.0416		mg/kg wet		88	10 - 177

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4529-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010726 **Prep Batch: 11F4529_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	ND		0.0470	0.0465		mg/kg wet		99	31 - 150
1,1,2,2-Tetrachloroethane	ND		0.0470	0.0562		mg/kg wet		120	27 - 163
Tetrachloroethene	ND		0.0470	0.0492		mg/kg wet		105	33 - 155
Toluene	0.000836		0.0470	0.0494		mg/kg wet		103	45 - 145
1,2,3-Trichlorobenzene	ND		0.0470	0.0303		mg/kg wet		64	10 - 182
1,2,4-Trichlorobenzene	ND		0.0470	0.0304		mg/kg wet		65	10 - 175
1,1,2-Trichloroethane	0.00119		0.0470	0.0505		mg/kg wet		105	43 - 145
1,1,1-Trichloroethane	ND		0.0470	0.0493		mg/kg wet		105	39 - 148
Trichloroethene	ND		0.0470	0.0475		mg/kg wet		101	39 - 150
Trichlorofluoromethane	ND		0.0470	0.0464		mg/kg wet		99	25 - 174
1,2,3-Trichloropropane	ND		0.0470	0.0541		mg/kg wet		115	10 - 152
1,3,5-Trimethylbenzene	ND		0.0470	0.0496		mg/kg wet		105	38 - 148
1,2,4-Trimethylbenzene	0.00344		0.0470	0.0489		mg/kg wet		97	22 - 164
Vinyl chloride	ND		0.0470	0.0424		mg/kg wet		90	32 - 163
Xylenes, total	ND		0.141	0.137		mg/kg wet		97	31 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*100*		*67 - 138*
Dibromofluoromethane	*99*		*75 - 125*
Toluene-d8	*105*		*76 - 129*
4-Bromofluorobenzene	*105*		*67 - 147*

Lab Sample ID: 11F4529-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010726 **Prep Batch: 11F4529_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	ND		0.247	0.303		mg/kg wet		123	29 - 181	0.9	50
Benzene	ND		0.0494	0.0520		mg/kg wet		105	42 - 141	6	50
Bromobenzene	ND		0.0494	0.0531		mg/kg wet		107	19 - 154	14	50
Bromochloromethane	ND		0.0494	0.0512		mg/kg wet		104	41 - 146	5	50
Bromodichloromethane	ND		0.0494	0.0476		mg/kg wet		96	32 - 155	5	50
Bromoform	ND		0.0494	0.0484		mg/kg wet		98	10 - 155	10	43
Bromomethane	ND		0.0494	0.0459		mg/kg wet		93	10 - 199	10	46
1,2-Dibromo-3-chloropropane	ND		0.0494	0.0555		mg/kg wet		112	10 - 167	6	45
2-Butanone	ND		0.247	0.303		mg/kg wet		123	38 - 161	0.6	50
sec-Butylbenzene	ND		0.0494	0.0573		mg/kg wet		116	10 - 170	16	50
n-Butylbenzene	ND		0.0494	0.0494		mg/kg wet		100	10 - 183	18	50
tert-Butylbenzene	ND		0.0494	0.0597		mg/kg wet		121	11 - 165	15	50
Carbon disulfide	0.000854		0.0494	0.0541		mg/kg wet		108	50 - 136	11	48
Carbon Tetrachloride	ND		0.0494	0.0518		mg/kg wet		105	30 - 159	7	44
Chlorobenzene	ND		0.0494	0.0519		mg/kg wet		105	25 - 151	16	50
Chlorodibromomethane	ND		0.0494	0.0507		mg/kg wet		103	27 - 150	14	48
Chloroethane	ND		0.0494	0.0560		mg/kg wet		113	15 - 197	3	50
Chloroform	0.00224		0.0494	0.0544		mg/kg wet		106	33 - 148	7	50
Chloromethane	ND		0.0494	0.0373		mg/kg wet		76	10 - 166	4	44
2-Chlorotoluene	ND		0.0494	0.0551		mg/kg wet		112	25 - 166	18	50
4-Chlorotoluene	ND		0.0494	0.0531		mg/kg wet		107	19 - 163	18	50
1,2-Dibromoethane (EDB)	ND		0.0494	0.0515		mg/kg wet		104	30 - 155	13	45

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4529-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010726 **Prep Batch: 11F4529_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dibromomethane	ND		0.0494	0.0490		mg/kg wet		99	30 - 149	3	50
1,4-Dichlorobenzene	ND		0.0494	0.0494		mg/kg wet		100	10 - 170	17	50
1,3-Dichlorobenzene	ND		0.0494	0.0490		mg/kg wet		99	10 - 173	17	50
1,2-Dichlorobenzene	ND		0.0494	0.0485		mg/kg wet		98	10 - 168	15	50
Dichlorodifluoromethane	ND		0.0494	0.0343		mg/kg wet		69	10 - 188	20	50
1,1-Dichloroethane	ND		0.0494	0.0544		mg/kg wet		110	51 - 135	9	50
1,2-Dichloroethane	0.00210		0.0494	0.0502		mg/kg wet		97	32 - 155	5	50
cis-1,2-Dichloroethene	0.00169		0.0494	0.0526		mg/kg wet		103	32 - 150	7	50
1,1-Dichloroethene	ND		0.0494	0.0546		mg/kg wet		111	46 - 141	9	50
trans-1,2-Dichloroethene	ND		0.0494	0.0538		mg/kg wet		109	41 - 146	10	40
1,3-Dichloropropane	ND		0.0494	0.0544		mg/kg wet		110	35 - 148	13	42
1,2-Dichloropropane	ND		0.0494	0.0480		mg/kg wet		97	34 - 139	4	50
2,2-Dichloropropane	ND		0.0494	0.0548		mg/kg wet		111	29 - 152	7	39
cis-1,3-Dichloropropene	ND		0.0494	0.0541		mg/kg wet		110	23 - 152	8	50
trans-1,3-Dichloropropene	ND		0.0494	0.0489		mg/kg wet		99	24 - 151	8	48
1,1-Dichloropropene	ND		0.0494	0.0534		mg/kg wet		108	40 - 151	7	50
Ethylbenzene	ND		0.0494	0.0541		mg/kg wet		110	21 - 165	16	50
Hexachlorobutadiene	ND		0.0494	0.0464		mg/kg wet		94	10 - 173	14	50
2-Hexanone	ND		0.247	0.291		mg/kg wet		118	13 - 174	4	50
Isopropylbenzene	ND		0.0494	0.0591		mg/kg wet		120	20 - 139	16	50
p-Isopropyltoluene	ND		0.0494	0.0559		mg/kg wet		113	10 - 164	18	50
Methyl tert-Butyl Ether	ND		0.0494	0.0551		mg/kg wet		111	34 - 154	8	50
Methylene Chloride	ND		0.0494	0.0583		mg/kg wet		118	36 - 163	9	50
4-Methyl-2-pentanone	0.00368		0.247	0.302		mg/kg wet		121	19 - 176	2	45
Naphthalene	ND		0.0494	0.0392		mg/kg wet		79	10 - 160	6	50
n-Propylbenzene	ND		0.0494	0.0571		mg/kg wet		116	16 - 174	17	50
Styrene	ND		0.0494	0.0482		mg/kg wet		98	10 - 177	15	50
1,1,1,2-Tetrachloroethane	ND		0.0494	0.0537		mg/kg wet		109	31 - 150	14	50
1,1,2,2-Tetrachloroethane	ND		0.0494	0.0608		mg/kg wet		123	27 - 163	8	45
Tetrachloroethene	ND		0.0494	0.0586		mg/kg wet		119	33 - 155	17	50
Toluene	0.000836		0.0494	0.0548		mg/kg wet		109	45 - 145	10	50
1,2,3-Trichlorobenzene	ND		0.0494	0.0330		mg/kg wet		67	10 - 182	9	50
1,2,4-Trichlorobenzene	ND		0.0494	0.0351		mg/kg wet		71	10 - 175	15	50
1,1,2-Trichloroethane	0.00119		0.0494	0.0542		mg/kg wet		107	43 - 145	7	50
1,1,1-Trichloroethane	ND		0.0494	0.0528		mg/kg wet		107	39 - 148	7	41
Trichloroethene	ND		0.0494	0.0514		mg/kg wet		104	39 - 150	8	50
Trichlorofluoromethane	ND		0.0494	0.0488		mg/kg wet		99	25 - 174	5	47
1,2,3-Trichloropropane	ND		0.0494	0.0591		mg/kg wet		120	10 - 152	9	47
1,3,5-Trimethylbenzene	ND		0.0494	0.0586		mg/kg wet		119	38 - 148	17	50
1,2,4-Trimethylbenzene	0.00344		0.0494	0.0574		mg/kg wet		109	22 - 164	16	50
Vinyl chloride	ND		0.0494	0.0425		mg/kg wet		86	32 - 163	0.2	39
Xylenes, total	ND		0.148	0.160		mg/kg wet		108	31 - 159	16	50

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*95*		*67 - 138*
Dibromofluoromethane	*96*		*75 - 125*
Toluene-d8	*102*		*76 - 129*
4-Bromofluorobenzene	*106*		*67 - 147*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Lab Sample ID: 11F3190-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Acenaphthylene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Anthracene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Benzo (a) anthracene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Benzo (a) pyrene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Benzo (b) fluoranthene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Benzo (g,h,i) perylene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Benzo (k) fluoranthene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
4-Bromophenyl phenyl ether	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Butyl benzyl phthalate	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Carbazole	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
4-Chloro-3-methylphenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
4-Chloroaniline	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Bis(2-chloroethoxy)methane	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Bis(2-chloroethyl)ether	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Bis(2-chloroisopropyl)ether	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2-Chloronaphthalene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2-Chlorophenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
4-Chlorophenyl phenyl ether	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Chrysene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Dibenz (a,h) anthracene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Dibenzofuran	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Di-n-butyl phthalate	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
1,4-Dichlorobenzene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
1,2-Dichlorobenzene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
1,3-Dichlorobenzene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
3,3-Dichlorobenzidine	ND		0.667		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2,4-Dichlorophenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Diethyl phthalate	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2,4-Dimethylphenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Dimethyl phthalate	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
4,6-Dinitro-2-methylphenol	ND		0.833		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2,4-Dinitrophenol	ND		0.833		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2,6-Dinitrotoluene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2,4-Dinitrotoluene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Di-n-octyl phthalate	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Bis(2-ethylhexyl)phthalate	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Fluoranthene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Fluorene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Hexachlorobenzene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Hexachlorobutadiene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Hexachlorocyclopentadiene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Hexachloroethane	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Isophorone	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2-Methylnaphthalene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2-Methylphenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
3/4-Methylphenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Naphthalene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3190-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.833		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2-Nitroaniline	ND		0.833		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
4-Nitroaniline	ND		0.833		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Nitrobenzene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
4-Nitrophenol	ND		0.833		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2-Nitrophenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
N-Nitrosodiphenylamine	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
N-Nitrosodi-n-propylamine	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Pentachlorophenol	ND		0.833		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Phenanthrene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Phenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Pyrene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Pyridine	ND		0.667		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
1,2,4-Trichlorobenzene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
1-Methylnaphthalene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2,4,6-Trichlorophenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2,4,5-Trichlorophenol	ND		0.833		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*89*		*18 - 120*	*06/13/11 14:35*	*06/14/11 13:52*	*1.00*
2,4,6-Tribromophenol	*63*		*19 - 120*	*06/13/11 14:35*	*06/14/11 13:52*	*1.00*
Phenol-d5	*70*		*18 - 120*	*06/13/11 14:35*	*06/14/11 13:52*	*1.00*
2-Fluorobiphenyl	*69*		*14 - 120*	*06/13/11 14:35*	*06/14/11 13:52*	*1.00*
2-Fluorophenol	*69*		*17 - 120*	*06/13/11 14:35*	*06/14/11 13:52*	*1.00*
Nitrobenzene-d5	*72*		*17 - 120*	*06/13/11 14:35*	*06/14/11 13:52*	*1.00*

Lab Sample ID: 11F3190-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.67	1.21		mg/kg wet		73	49 - 120
Acenaphthylene	1.67	1.11		mg/kg wet		67	52 - 120
Anthracene	1.67	1.33		mg/kg wet		80	58 - 120
Benzo (a) anthracene	1.67	1.35		mg/kg wet		81	57 - 120
Benzo (a) pyrene	1.67	1.37		mg/kg wet		82	55 - 120
Benzo (b) fluoranthene	1.67	1.49		mg/kg wet		90	51 - 123
Benzo (g,h,i) perylene	1.67	1.38		mg/kg wet		83	49 - 121
Benzo (k) fluoranthene	1.67	1.11		mg/kg wet		66	42 - 129
4-Bromophenyl phenyl ether	1.67	1.35		mg/kg wet		81	49 - 120
Butyl benzyl phthalate	1.67	1.60		mg/kg wet		96	59 - 124
Carbazole	1.67	1.37		mg/kg wet		82	54 - 120
4-Chloro-3-methylphenol	1.67	1.39		mg/kg wet		83	49 - 120
4-Chloroaniline	1.67	1.26		mg/kg wet		76	41 - 120
Bis(2-chloroethoxy)methane	1.67	1.31		mg/kg wet		79	37 - 120
Bis(2-chloroethyl)ether	1.67	1.20		mg/kg wet		72	29 - 120
Bis(2-chloroisopropyl)ether	1.67	1.21		mg/kg wet		72	28 - 120
2-Chloronaphthalene	1.67	1.12		mg/kg wet		67	45 - 120
2-Chlorophenol	1.67	1.31		mg/kg wet		79	42 - 120

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3190-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4-Chlorophenyl phenyl ether	1.67	1.28		mg/kg wet		77	52 - 120
Chrysene	1.67	1.27		mg/kg wet		76	55 - 120
Dibenz (a,h) anthracene	1.67	1.38		mg/kg wet		83	50 - 123
Dibenzofuran	1.67	1.26		mg/kg wet		76	54 - 120
Di-n-butyl phthalate	1.67	1.45		mg/kg wet		87	58 - 120
1,4-Dichlorobenzene	1.67	1.13		mg/kg wet		68	15 - 120
1,2-Dichlorobenzene	1.67	1.14		mg/kg wet		68	17 - 120
1,3-Dichlorobenzene	1.67	1.12		mg/kg wet		67	13 - 120
3,3-Dichlorobenzidine	1.67	1.43		mg/kg wet		86	54 - 120
2,4-Dichlorophenol	1.67	1.34		mg/kg wet		80	43 - 120
Diethyl phthalate	1.67	1.32		mg/kg wet		79	52 - 120
2,4-Dimethylphenol	1.67	1.34		mg/kg wet		81	47 - 120
Dimethyl phthalate	1.67	1.32		mg/kg wet		79	55 - 120
4,6-Dinitro-2-methylphenol	1.67	1.43		mg/kg wet		86	27 - 134
2,4-Dinitrophenol	1.67	1.59		mg/kg wet		95	15 - 145
2,6-Dinitrotoluene	1.67	1.33		mg/kg wet		80	56 - 120
2,4-Dinitrotoluene	1.67	1.28		mg/kg wet		77	55 - 122
Di-n-octyl phthalate	1.67	1.63		mg/kg wet		98	48 - 131
Bis(2-ethylhexyl)phthalate	1.67	1.91		mg/kg wet		115	51 - 127
Fluoranthene	1.67	1.34		mg/kg wet		80	58 - 120
Fluorene	1.67	1.26		mg/kg wet		75	54 - 120
Hexachlorobenzene	1.67	1.30		mg/kg wet		78	56 - 120
Hexachlorobutadiene	1.67	1.36		mg/kg wet		81	19 - 120
Hexachlorocyclopentadiene	1.67	0.796		mg/kg wet		48	11 - 120
Hexachloroethane	1.67	1.28		mg/kg wet		77	14 - 120
Indeno (1,2,3-cd) pyrene	1.67	1.38		mg/kg wet		83	50 - 122
Isophorone	1.67	1.21		mg/kg wet		73	43 - 120
2-Methylnaphthalene	1.67	1.23		mg/kg wet		74	36 - 120
2-Methylphenol	1.67	1.21		mg/kg wet		73	47 - 120
3/4-Methylphenol	1.67	1.24		mg/kg wet		74	53 - 135
Naphthalene	1.67	1.19		mg/kg wet		71	28 - 120
3-Nitroaniline	1.67	1.36		mg/kg wet		81	54 - 120
2-Nitroaniline	1.67	1.41		mg/kg wet		84	59 - 120
4-Nitroaniline	1.67	1.37		mg/kg wet		82	55 - 121
Nitrobenzene	1.67	1.15		mg/kg wet		69	30 - 120
4-Nitrophenol	1.67	1.34		mg/kg wet		81	44 - 133
2-Nitrophenol	1.67	1.39		mg/kg wet		84	36 - 120
N-Nitrosodiphenylamine	1.67	1.57		mg/kg wet		94	56 - 120
N-Nitrosodi-n-propylamine	1.67	1.28		mg/kg wet		77	45 - 120
Pentachlorophenol	1.67	1.66		mg/kg wet		100	42 - 135
Phenanthrene	1.67	1.34		mg/kg wet		81	56 - 120
Phenol	1.67	1.29		mg/kg wet		77	45 - 120
Pyrene	1.67	1.34		mg/kg wet		80	56 - 120
Pyridine	1.67	1.06		mg/kg wet		63	26 - 120
1,2,4-Trichlorobenzene	1.67	1.13		mg/kg wet		68	22 - 120
1-Methylnaphthalene	1.67	1.08		mg/kg wet		65	36 - 120
2,4,6-Trichlorophenol	1.67	1.35		mg/kg wet		81	50 - 120
2,4,5-Trichlorophenol	1.67	1.24		mg/kg wet		74	54 - 120

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3190-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*83*		*18 - 120*
2,4,6-Tribromophenol	*66*		*19 - 120*
Phenol-d5	*65*		*18 - 120*
2-Fluorobiphenyl	*66*		*14 - 120*
2-Fluorophenol	*66*		*17 - 120*
Nitrobenzene-d5	*64*		*17 - 120*

Lab Sample ID: 11F3190-MS1 **Client Sample ID: F-04B(2-3')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	ND		1.98	1.44		mg/kg dry	☼	73	42 - 120
Acenaphthylene	ND		1.98	1.31		mg/kg dry	☼	66	32 - 120
Anthracene	ND		1.98	1.54		mg/kg dry	☼	78	10 - 200
Benzo (a) anthracene	ND		1.98	1.57		mg/kg dry	☼	80	41 - 120
Benzo (a) pyrene	ND		1.98	1.56		mg/kg dry	☼	79	33 - 121
Benzo (b) fluoranthene	ND		1.98	1.73		mg/kg dry	☼	87	26 - 137
Benzo (g,h,i) perylene	ND		1.98	1.57		mg/kg dry	☼	80	21 - 124
Benzo (k) fluoranthene	ND		1.98	1.28		mg/kg dry	☼	65	14 - 140
4-Bromophenyl phenyl ether	ND		1.98	1.61		mg/kg dry	☼	82	39 - 120
Butyl benzyl phthalate	ND		1.98	1.87		mg/kg dry	☼	95	47 - 124
Carbazole	ND		1.98	1.56		mg/kg dry	☼	79	37 - 120
4-Chloro-3-methylphenol	ND		1.98	1.67		mg/kg dry	☼	84	38 - 120
4-Chloroaniline	ND		1.98	1.51		mg/kg dry	☼	76	20 - 120
Bis(2-chloroethoxy)methane	ND		1.98	1.49		mg/kg dry	☼	76	32 - 120
Bis(2-chloroethyl)ether	ND		1.98	1.34		mg/kg dry	☼	68	25 - 120
Bis(2-chloroisopropyl)ether	ND		1.98	1.40		mg/kg dry	☼	71	23 - 120
2-Chloronaphthalene	ND		1.98	1.33		mg/kg dry	☼	67	39 - 120
2-Chlorophenol	ND		1.98	1.54		mg/kg dry	☼	78	28 - 120
4-Chlorophenyl phenyl ether	ND		1.98	1.55		mg/kg dry	☼	79	43 - 120
Chrysene	0.0413		1.98	1.46		mg/kg dry	☼	72	28 - 123
Dibenz (a,h) anthracene	ND		1.98	1.59		mg/kg dry	☼	80	25 - 127
Dibenzofuran	ND		1.98	1.50		mg/kg dry	☼	76	40 - 120
Di-n-butyl phthalate	ND		1.98	1.64		mg/kg dry	☼	83	32 - 124
1,4-Dichlorobenzene	ND		1.98	1.30		mg/kg dry	☼	66	10 - 120
1,2-Dichlorobenzene	ND		1.98	1.34		mg/kg dry	☼	68	10 - 120
1,3-Dichlorobenzene	ND		1.98	1.30		mg/kg dry	☼	66	10 - 120
3,3-Dichlorobenzidine	ND		1.98	1.58		mg/kg dry	☼	80	13 - 120
2,4-Dichlorophenol	ND		1.98	1.60		mg/kg dry	☼	81	33 - 120
Diethyl phthalate	ND		1.98	1.53		mg/kg dry	☼	78	34 - 120
2,4-Dimethylphenol	ND		1.98	1.33		mg/kg dry	☼	67	29 - 120
Dimethyl phthalate	ND		1.98	1.53		mg/kg dry	☼	77	43 - 120
4,6-Dinitro-2-methylphenol	ND		1.98	0.510		mg/kg dry	☼	26	10 - 134
2,4-Dinitrophenol	ND		1.98	0.540		mg/kg dry	☼	27	10 - 145
2,6-Dinitrotoluene	ND		1.98	1.58		mg/kg dry	☼	80	43 - 120
2,4-Dinitrotoluene	ND		1.98	1.48		mg/kg dry	☼	75	42 - 122
Di-n-octyl phthalate	ND		1.98	1.91		mg/kg dry	☼	97	34 - 135
Bis(2-ethylhexyl)phthalate	ND		1.98	1.85		mg/kg dry	☼	94	40 - 127

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3190-MS1 **Client Sample ID: F-04B(2-3')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Fluoranthene	0.0667		1.98	1.57		mg/kg dry	☼	76	38 - 120
Fluorene	ND		1.98	1.51		mg/kg dry	☼	77	41 - 120
Hexachlorobenzene	ND		1.98	1.56		mg/kg dry	☼	79	44 - 120
Hexachlorobutadiene	ND		1.98	1.69		mg/kg dry	☼	85	17 - 120
Hexachlorocyclopentadiene	ND		1.98	0.760		mg/kg dry	☼	38	10 - 120
Hexachloroethane	ND		1.98	1.46		mg/kg dry	☼	74	10 - 120
Indeno (1,2,3-cd) pyrene	ND		1.98	1.60		mg/kg dry	☼	81	25 - 123
Isophorone	ND		1.98	1.37		mg/kg dry	☼	69	32 - 120
2-Methylnaphthalene	ND		1.98	1.49		mg/kg dry	☼	75	11 - 120
2-Methylphenol	ND		1.98	1.38		mg/kg dry	☼	70	41 - 120
3/4-Methylphenol	ND		1.98	1.41		mg/kg dry	☼	72	36 - 127
Naphthalene	ND		1.98	1.42		mg/kg dry	☼	72	25 - 120
3-Nitroaniline	ND		1.98	1.65		mg/kg dry	☼	83	36 - 120
2-Nitroaniline	ND		1.98	1.69		mg/kg dry	☼	85	46 - 120
4-Nitroaniline	ND		1.98	1.65		mg/kg dry	☼	84	35 - 121
Nitrobenzene	ND		1.98	1.35		mg/kg dry	☼	68	26 - 120
4-Nitrophenol	ND		1.98	1.62		mg/kg dry	☼	82	19 - 136
2-Nitrophenol	ND		1.98	1.57		mg/kg dry	☼	79	26 - 120
N-Nitrosodiphenylamine	ND		1.98	1.82		mg/kg dry	☼	92	43 - 120
N-Nitrosodi-n-propylamine	ND		1.98	1.47		mg/kg dry	☼	74	34 - 120
Pentachlorophenol	ND		1.98	1.94		mg/kg dry	☼	98	15 - 135
Phenanthrene	0.0413		1.98	1.57		mg/kg dry	☼	77	37 - 120
Phenol	ND		1.98	1.49		mg/kg dry	☼	76	38 - 120
Pyrene	0.0682		1.98	1.61		mg/kg dry	☼	78	29 - 125
Pyridine	ND		1.98	1.24		mg/kg dry	☼	63	10 - 120
1,2,4-Trichlorobenzene	ND		1.98	1.37		mg/kg dry	☼	69	22 - 120
1-Methylnaphthalene	ND		1.98	1.32		mg/kg dry	☼	67	19 - 120
2,4,6-Trichlorophenol	ND		1.98	1.63		mg/kg dry	☼	83	32 - 120
2,4,5-Trichlorophenol	ND		1.98	1.53		mg/kg dry	☼	77	39 - 120

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
Terphenyl-d14	*83*		*18 - 120*
2,4,6-Tribromophenol	*67*		*19 - 120*
Phenol-d5	*65*		*18 - 120*
2-Fluorobiphenyl	*64*		*14 - 120*
2-Fluorophenol	*66*		*17 - 120*
Nitrobenzene-d5	*63*		*17 - 120*

Lab Sample ID: 11F3190-MSD1 **Client Sample ID: F-04B(2-3')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		1.96	1.40		mg/kg dry	☼	71	42 - 120	3	40
Acenaphthylene	ND		1.96	1.25		mg/kg dry	☼	64	32 - 120	5	30
Anthracene	ND		1.96	1.50		mg/kg dry	☼	76	10 - 200	3	50
Benzo (a) anthracene	ND		1.96	1.52		mg/kg dry	☼	78	41 - 120	3	30
Benzo (a) pyrene	ND		1.96	1.48		mg/kg dry	☼	75	33 - 121	5	33
Benzo (b) fluoranthene	ND		1.96	1.41		mg/kg dry	☼	72	26 - 137	20	42

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3190-MSD1 **Client Sample ID: F-04B(2-3')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzo (g,h,i) perylene	ND		1.96	1.52		mg/kg dry	☼	77	21 - 124	4	32
Benzo (k) fluoranthene	ND		1.96	1.50		mg/kg dry	☼	76	14 - 140	16	39
4-Bromophenyl phenyl ether	ND		1.96	1.52		mg/kg dry	☼	77	39 - 120	6	31
Butyl benzyl phthalate	ND		1.96	1.85		mg/kg dry	☼	94	47 - 124	1	37
Carbazole	ND		1.96	1.53		mg/kg dry	☼	78	37 - 120	2	29
4-Chloro-3-methylphenol	ND		1.96	1.62		mg/kg dry	☼	83	38 - 120	3	34
4-Chloroaniline	ND		1.96	1.41		mg/kg dry	☼	72	20 - 120	7	43
Bis(2-chloroethoxy)methane	ND		1.96	1.45		mg/kg dry	☼	74	32 - 120	3	41
Bis(2-chloroethyl)ether	ND		1.96	1.28		mg/kg dry	☼	65	25 - 120	5	41
Bis(2-chloroisopropyl)ether	ND		1.96	1.30		mg/kg dry	☼	66	23 - 120	7	50
2-Chloronaphthalene	ND		1.96	1.25		mg/kg dry	☼	64	39 - 120	6	34
2-Chlorophenol	ND		1.96	1.41		mg/kg dry	☼	72	28 - 120	9	45
4-Chlorophenyl phenyl ether	ND		1.96	1.47		mg/kg dry	☼	75	43 - 120	6	31
Chrysene	0.0413		1.96	1.43		mg/kg dry	☼	71	28 - 123	2	34
Dibenz (a,h) anthracene	ND		1.96	1.51		mg/kg dry	☼	77	25 - 127	5	31
Dibenzofuran	ND		1.96	1.45		mg/kg dry	☼	74	40 - 120	3	39
Di-n-butyl phthalate	ND		1.96	1.64		mg/kg dry	☼	84	32 - 124	0.007	29
1,4-Dichlorobenzene	ND		1.96	1.22		mg/kg dry	☼	62	10 - 120	6	50
1,2-Dichlorobenzene	ND		1.96	1.22		mg/kg dry	☼	62	10 - 120	10	50
1,3-Dichlorobenzene	ND		1.96	1.21		mg/kg dry	☼	62	10 - 120	7	50
3,3-Dichlorobenzidine	ND		1.96	1.48		mg/kg dry	☼	75	13 - 120	7	35
2,4-Dichlorophenol	ND		1.96	1.52		mg/kg dry	☼	77	33 - 120	5	35
Diethyl phthalate	ND		1.96	1.46		mg/kg dry	☼	74	34 - 120	5	33
2,4-Dimethylphenol	ND		1.96	1.16		mg/kg dry	☼	59	29 - 120	14	50
Dimethyl phthalate	ND		1.96	1.46		mg/kg dry	☼	75	43 - 120	4	31
4,6-Dinitro-2-methylphenol	ND		1.96	0.472		mg/kg dry	☼	24	10 - 134	8	50
2,4-Dinitrophenol	ND		1.96	0.485		mg/kg dry	☼	25	10 - 145	11	50
2,6-Dinitrotoluene	ND		1.96	1.48		mg/kg dry	☼	75	43 - 120	7	34
2,4-Dinitrotoluene	ND		1.96	1.43		mg/kg dry	☼	73	42 - 122	4	31
Di-n-octyl phthalate	ND		1.96	1.87		mg/kg dry	☼	96	34 - 135	2	31
Bis(2-ethylhexyl)phthalate	ND		1.96	1.83		mg/kg dry	☼	93	40 - 127	1	32
Fluoranthene	0.0667		1.96	1.53		mg/kg dry	☼	74	38 - 120	3	35
Fluorene	ND		1.96	1.45		mg/kg dry	☼	74	41 - 120	4	37
Hexachlorobenzene	ND		1.96	1.45		mg/kg dry	☼	74	44 - 120	7	28
Hexachlorobutadiene	ND		1.96	1.52		mg/kg dry	☼	77	17 - 120	11	50
Hexachlorocyclopentadiene	ND		1.96	0.670		mg/kg dry	☼	34	10 - 120	13	50
Hexachloroethane	ND		1.96	1.37		mg/kg dry	☼	70	10 - 120	6	50
Indeno (1,2,3-cd) pyrene	ND		1.96	1.52		mg/kg dry	☼	77	25 - 123	5	32
Isophorone	ND		1.96	1.32		mg/kg dry	☼	67	32 - 120	4	36
2-Methylnaphthalene	ND		1.96	1.43		mg/kg dry	☼	73	11 - 120	4	50
2-Methylphenol	ND		1.96	1.30		mg/kg dry	☼	66	41 - 120	6	41
3/4-Methylphenol	ND		1.96	1.33		mg/kg dry	☼	68	36 - 127	6	39
Naphthalene	ND		1.96	1.35		mg/kg dry	☼	69	25 - 120	5	42
3-Nitroaniline	ND		1.96	1.57		mg/kg dry	☼	80	36 - 120	5	35
2-Nitroaniline	ND		1.96	1.62		mg/kg dry	☼	83	46 - 120	4	28
4-Nitroaniline	ND		1.96	1.59		mg/kg dry	☼	81	35 - 121	4	36
Nitrobenzene	ND		1.96	1.29		mg/kg dry	☼	66	26 - 120	4	44
4-Nitrophenol	ND		1.96	1.59		mg/kg dry	☼	81	19 - 136	2	47
2-Nitrophenol	ND		1.96	1.47		mg/kg dry	☼	75	26 - 120	7	43
N-Nitrosodiphenylamine	ND		1.96	1.76		mg/kg dry	☼	90	43 - 120	4	30

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3190-MSD1 **Client Sample ID: F-04B(2-3')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
N-Nitrosodi-n-propylamine	ND		1.96	1.38		mg/kg dry	☼	70	34 - 120	6	41
Pentachlorophenol	ND		1.96	1.81		mg/kg dry	☼	92	15 - 135	7	32
Phenanthrene	0.0413		1.96	1.53		mg/kg dry	☼	76	37 - 120	2	32
Phenol	ND		1.96	1.42		mg/kg dry	☼	72	38 - 120	5	42
Pyrene	0.0682		1.96	1.58		mg/kg dry	☼	77	29 - 125	2	40
Pyridine	ND		1.96	1.19		mg/kg dry	☼	61	10 - 120	4	50
1,2,4-Trichlorobenzene	ND		1.96	1.27		mg/kg dry	☼	65	22 - 120	8	46
1-Methylnaphthalene	ND		1.96	1.25		mg/kg dry	☼	64	19 - 120	5	45
2,4,6-Trichlorophenol	ND		1.96	1.55		mg/kg dry	☼	79	32 - 120	6	34
2,4,5-Trichlorophenol	ND		1.96	1.43		mg/kg dry	☼	73	39 - 120	7	33

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Terphenyl-d14	*84*		*18 - 120*
2,4,6-Tribromophenol	*66*		*19 - 120*
Phenol-d5	*66*		*18 - 120*
2-Fluorobiphenyl	*63*		*14 - 120*
2-Fluorophenol	*65*		*17 - 120*
Nitrobenzene-d5	*64*		*17 - 120*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Lab Sample ID: 11F3198-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010683 **Prep Batch: 11F3198_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		4.00		mg/kg wet		06/15/11 15:35	06/16/11 22:23	1.00
TPH - Oil Range	ND		4.00		mg/kg wet		06/15/11 15:35	06/16/11 22:23	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*105*		*53 - 140*	*06/15/11 15:35*	*06/16/11 22:23*	*1.00*

Lab Sample ID: 11F3198-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010683 **Prep Batch: 11F3198_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Diesel			40.0	37.4	MNR	mg/kg wet		93	65 - 127		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*121*		*53 - 140*

Lab Sample ID: 11F3199-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010714 **Prep Batch: 11F3199_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		4.00		mg/kg wet		06/14/11 09:35	06/16/11 22:53	1.00
TPH - Oil Range	ND		4.00		mg/kg wet		06/14/11 09:35	06/16/11 22:53	1.00

Method: SW846 8015B - Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 11F3199-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010714 **Prep Batch: 11F3199_P**

Surrogate	Blank % Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	92		53 - 140	06/14/11 09:35	06/16/11 22:53	1.00

Lab Sample ID: 11F3199-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010614 **Prep Batch: 11F3199_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Diesel	40.0	32.8	M3	mg/kg wet		82	65 - 127

Surrogate	LCS % Recovery	LCS Qualifier	Limits
o-Terphenyl	85		53 - 140

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Lab Sample ID: 11F3179-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010417 **Prep Batch: 11F3179_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0333		mg/kg wet		06/14/11 07:35	06/14/11 18:43	1.00
PCB-1221	ND		0.0333		mg/kg wet		06/14/11 07:35	06/14/11 18:43	1.00
PCB-1232	ND		0.0333		mg/kg wet		06/14/11 07:35	06/14/11 18:43	1.00
PCB-1242	ND		0.0333		mg/kg wet		06/14/11 07:35	06/14/11 18:43	1.00
PCB-1248	ND		0.0333		mg/kg wet		06/14/11 07:35	06/14/11 18:43	1.00
PCB-1254	ND		0.0333		mg/kg wet		06/14/11 07:35	06/14/11 18:43	1.00
PCB-1260	ND		0.0333		mg/kg wet		06/14/11 07:35	06/14/11 18:43	1.00

Surrogate	Blank % Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-meta-xylene	88		19 - 147	06/14/11 07:35	06/14/11 18:43	1.00
Decachlorobiphenyl	116		20 - 150	06/14/11 07:35	06/14/11 18:43	1.00

Lab Sample ID: 11F3179-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010417 **Prep Batch: 11F3179_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
PCB-1016	0.167	0.169		mg/kg wet		102	64 - 122
PCB-1260	0.167	0.171		mg/kg wet		103	56 - 150

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Tetrachloro-meta-xylene	88		19 - 147
Decachlorobiphenyl	110		20 - 150

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A (Continued)

Lab Sample ID: 11F3179-MS1 **Client Sample ID: F-04B(2-3')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010417 **Prep Batch: 11F3179_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
PCB-1016	ND		0.198	0.249		mg/kg dry	☼	126	20 - 175
PCB-1260	0.210		0.198	0.298	M7	mg/kg dry	☼	44	51 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
Tetrachloro-meta-xylene	*62*		*19 - 147*
Decachlorobiphenyl	*296*	*ZX*	*20 - 150*

Lab Sample ID: 11F3179-MSD1 **Client Sample ID: F-04B(2-3')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010417 **Prep Batch: 11F3179_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
PCB-1016	ND		0.198	0.201		mg/kg dry	☼	102	20 - 175	21	50
PCB-1260	0.210		0.198	0.367		mg/kg dry	☼	79	51 - 159	21	36

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Tetrachloro-meta-xylene	*64*		*19 - 147*
Decachlorobiphenyl	*138*		*20 - 150*

Method: SW846 1311/6010B - TCLP Metals by 6000/7000 Series Methods

Lab Sample ID: 11F3720-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: TCLP**
Analysis Batch: 11F3720 **Prep Batch: 11F3720_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0500		mg/L		06/15/11 07:51	06/16/11 07:43	1.00
Arsenic	ND		0.100		mg/L		06/15/11 07:51	06/16/11 07:43	1.00
Barium	ND		0.100		mg/L		06/15/11 07:51	06/16/11 07:43	1.00
Cadmium	ND		0.0100		mg/L		06/15/11 07:51	06/16/11 07:43	1.00
Lead	ND		0.0500		mg/L		06/15/11 07:51	06/16/11 07:43	1.00
Selenium	ND		0.100		mg/L		06/15/11 07:51	06/16/11 07:43	1.00
Silver	ND		0.0500		mg/L		06/15/11 07:51	06/16/11 07:43	1.00

Lab Sample ID: 11F3720-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: TCLP**
Analysis Batch: 11F3720 **Prep Batch: 11F3720_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chromium	10.0	9.68		mg/L		97	80 - 120
Arsenic	2.00	1.74		mg/L		87	80 - 120
Barium	20.0	19.2		mg/L		96	80 - 120
Cadmium	2.00	1.92		mg/L		96	80 - 120
Lead	10.0	9.62		mg/L		96	80 - 120
Selenium	2.00	1.80		mg/L		90	80 - 120
Silver	2.00	1.88		mg/L		94	80 - 120

Method: SW846 1311/6010B - TCLP Metals by 6000/7000 Series Methods (Continued)

Lab Sample ID: 11F3720-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: TCLP**
Analysis Batch: 11F3720 **Prep Batch: 11F3720_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chromium			10.0	10.0		mg/L		100	80 - 120	4	20
Arsenic			2.00	1.84		mg/L		92	80 - 120	6	20
Barium			20.0	20.0		mg/L		100	80 - 120	4	20
Cadmium			2.00	1.99		mg/L		100	80 - 120	3	20
Lead			10.0	9.99		mg/L		100	80 - 120	4	20
Selenium			2.00	1.87		mg/L		94	80 - 120	4	20
Silver			2.00	1.95		mg/L		98	80 - 120	4	20

Lab Sample ID: 11F3720-MS1 **Client Sample ID: Matrix Spike**
Matrix: Water **Prep Type: TCLP**
Analysis Batch: 11F3720 **Prep Batch: 11F3720_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Chromium	ND		10.0	10.1		mg/L		101	75 - 125		
Arsenic	ND		2.00	1.96		mg/L		98	75 - 125		
Barium	0.0840		20.0	19.7		mg/L		98	75 - 125		
Cadmium	0.104		2.00	2.16		mg/L		103	75 - 125		
Lead	0.235		10.0	10.5		mg/L		103	75 - 125		
Selenium	ND		2.00	1.98		mg/L		99	75 - 125		
Silver	ND		2.00	1.98		mg/L		99	75 - 125		

Lab Sample ID: 11F3720-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water **Prep Type: TCLP**
Analysis Batch: 11F3720 **Prep Batch: 11F3720_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chromium	ND		10.0	10.3		mg/L		103	75 - 125	2	20
Arsenic	ND		2.00	1.99		mg/L		99	75 - 125	1	20
Barium	0.0840		20.0	20.2		mg/L		101	75 - 125	3	20
Cadmium	0.104		2.00	2.18		mg/L		104	75 - 125	1	20
Lead	0.235		10.0	10.7		mg/L		104	75 - 125	2	20
Selenium	ND		2.00	2.03		mg/L		101	75 - 125	3	20
Silver	ND		2.00	2.03		mg/L		102	75 - 125	3	20

Method: SW846 1311/7470A - TCLP Metals by 6000/7000 Series Methods

Lab Sample ID: 11F3472-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: TCLP**
Analysis Batch: 11F3472 **Prep Batch: 11F3472_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0100		mg/L		06/16/11 13:20	06/16/11 15:24	1.00

Lab Sample ID: 11F3472-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: TCLP**
Analysis Batch: 11F3472 **Prep Batch: 11F3472_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury			0.0200	0.0219		mg/L		109	80 - 120		

Method: SW846 1311/7470A - TCLP Metals by 6000/7000 Series Methods (Continued)

Lab Sample ID: 11F3472-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: TCLP**
Analysis Batch: 11F3472 **Prep Batch: 11F3472_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury			0.0200	0.0217		mg/L		109	80 - 120	0.7	20

Lab Sample ID: 11F3472-MS1 **Client Sample ID: Matrix Spike**
Matrix: Water **Prep Type: TCLP**
Analysis Batch: 11F3472 **Prep Batch: 11F3472_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury	0.00410		0.0200	0.0192		mg/L		75	75 - 125		

Lab Sample ID: 11F3472-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water **Prep Type: TCLP**
Analysis Batch: 11F3472 **Prep Batch: 11F3472_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.00410		0.0200	0.0180	M8	mg/L		69	75 - 125	7	20

Method: SW846 6010B - Total Metals by EPA Method 6010B

Lab Sample ID: 11F3237-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3237 **Prep Batch: 11F3237_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.986		mg/kg wet		06/13/11 10:43	06/14/11 11:54	1.00
Barium	ND		1.97		mg/kg wet		06/13/11 10:43	06/14/11 11:54	1.00
Cadmium	ND		0.986		mg/kg wet		06/13/11 10:43	06/14/11 11:54	1.00
Chromium	ND		0.986		mg/kg wet		06/13/11 10:43	06/14/11 11:54	1.00
Lead	ND		0.986		mg/kg wet		06/13/11 10:43	06/14/11 11:54	1.00
Selenium	ND		1.97		mg/kg wet		06/13/11 10:43	06/14/11 11:54	1.00
Silver	ND		0.986		mg/kg wet		06/13/11 10:43	06/14/11 11:54	1.00

Lab Sample ID: 11F3237-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3237 **Prep Batch: 11F3237_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Arsenic			19.7	19.5		mg/kg wet		99	80 - 120		
Barium			787	809		mg/kg wet		103	80 - 120		
Cadmium			19.7	21.0		mg/kg wet		106	80 - 120		
Chromium			78.7	85.1		mg/kg wet		108	80 - 120		
Lead			19.7	21.6		mg/kg wet		110	80 - 120		
Selenium			19.7	20.4		mg/kg wet		103	80 - 120		
Silver			19.7	20.2		mg/kg wet		103	75 - 125		

Lab Sample ID: 11F3237-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3237 **Prep Batch: 11F3237_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic			19.4	18.1		mg/kg wet		93	80 - 120	7	20

Method: SW846 6010B - Total Metals by EPA Method 6010B (Continued)

Lab Sample ID: 11F3237-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3237 **Prep Batch: 11F3237_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Barium			777	769		mg/kg wet		99	80 - 120	5	20
Cadmium			19.4	19.5		mg/kg wet		100	80 - 120	7	20
Chromium			77.7	79.2		mg/kg wet		102	80 - 120	7	20
Lead			19.4	20.0		mg/kg wet		103	80 - 120	8	20
Selenium			19.4	19.1		mg/kg wet		98	80 - 120	6	20
Silver			19.4	19.0		mg/kg wet		98	75 - 125	6	20

Lab Sample ID: 11F3237-MS1 **Client Sample ID: F-04B(2-3')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3237 **Prep Batch: 11F3237_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Arsenic	6.29		23.9	28.3		mg/kg dry	☼	92	75 - 125		
Barium	218		958	1130		mg/kg dry	☼	95	75 - 125		
Cadmium	2.65		23.9	23.7		mg/kg dry	☼	88	75 - 125		
Chromium	23.2		95.8	114		mg/kg dry	☼	95	75 - 125		
Lead	203	MHA	23.9	162	MHA	mg/kg dry	☼	-173	75 - 125		
Selenium	2.35		23.9	23.7		mg/kg dry	☼	89	75 - 125		
Silver	ND		23.9	22.5		mg/kg dry	☼	94	75 - 125		

Lab Sample ID: 11F3237-MSD1 **Client Sample ID: F-04B(2-3')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3237 **Prep Batch: 11F3237_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	6.29		24.1	28.6		mg/kg dry	☼	92	75 - 125	0.9	20
Barium	218		963	1130		mg/kg dry	☼	95	75 - 125	0.6	20
Cadmium	2.65		24.1	23.6		mg/kg dry	☼	87	75 - 125	0.4	20
Chromium	23.2		96.3	114		mg/kg dry	☼	94	75 - 125	0.4	20
Lead	203	MHA	24.1	84.7	MHA R3	mg/kg dry	☼	-491	75 - 125	62	20
Selenium	2.35		24.1	24.3		mg/kg dry	☼	91	75 - 125	2	20
Silver	ND		24.1	22.6		mg/kg dry	☼	94	75 - 125	0.7	20

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Lab Sample ID: 11F3255-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3255 **Prep Batch: 11F3255_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.096		mg/kg wet		06/13/11 15:40	06/14/11 14:46	1.0

Lab Sample ID: 11F3255-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3255 **Prep Batch: 11F3255_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury			0.164	0.16		mg/kg wet		96	80 - 120		

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A (Continued)

Lab Sample ID: 11F3255-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3255 **Prep Batch: 11F3255_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury			0.166	0.16		mg/kg wet		94	80 - 120	0.4	20

Lab Sample ID: 11F3255-MS1 **Client Sample ID: F-04B(2-3')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3255 **Prep Batch: 11F3255_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury	0.32	M8	0.196	0.44	M8	mg/kg dry	☼	62	75 - 125		

Lab Sample ID: 11F3255-MSD1 **Client Sample ID: F-04B(2-3')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3255 **Prep Batch: 11F3255_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.32	M8	0.198	0.30	M8 R3	mg/kg dry	☼	-9	75 - 125	38	20

Method: SW-846 - General Chemistry Parameters

Lab Sample ID: 11F3263-DUP1 **Client Sample ID: F-03A(4-5')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3263 **Prep Batch: 11F3263_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Dry Solids	86.8			86.6		%				0.3	20

Lab Sample ID: 11F3326-DUP1 **Client Sample ID: Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3326 **Prep Batch: 11F3326_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Dry Solids	83.2			84.2		%				1	20

QC Association Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1686

GCMS Volatiles

Analysis Batch: U010630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4149-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11F4149_P
11F4149-BSD1	Lab Control Sample Dup	Total	Soil	SW846 8260B	11F4149_P
11F4149-BLK1	Method Blank	Total	Soil	SW846 8260B	11F4149_P
11F4149-BLK2	Method Blank	Total	Soil	SW846 8260B	11F4149_P
NUF1686-01	F-04B(2-3')	Total	Soil	SW846 8260B	11F4149_P
NUF1686-02	F-04B(8-9')	Total	Soil	SW846 8260B	11F4149_P
NUF1686-06	F-03A(4-5')	Total	Soil	SW846 8260B	11F4149_P
NUF1686-05	F-03A(1-3')	Total	Soil	SW846 8260B	11F4149_P
11F4149-MS1	F-03A(4-5')	Total	Soil	SW846 8260B	11F4149_P
11F4149-MSD1	F-03A(4-5')	Total	Soil	SW846 8260B	11F4149_P

Analysis Batch: U010726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4529-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11F4529_P
11F4529-BSD1	Lab Control Sample Dup	Total	Soil	SW846 8260B	11F4529_P
11F4529-BLK1	Method Blank	Total	Soil	SW846 8260B	11F4529_P
11F4529-BLK2	Method Blank	Total	Soil	SW846 8260B	11F4529_P
NUF1686-03 - RE1	F-05A(0-1')	Total	Soil	SW846 8260B	11F4529_P
NUF1686-03 - RE2	F-05A(0-1')	Total	Soil	SW846 8260B	11F4529_P
NUF1686-04 - RE1	F-05B(0-1')	Total	Soil	SW846 8260B	11F4529_P
NUF1686-04 - RE2	F-05B(0-1')	Total	Soil	SW846 8260B	11F4529_P
11F4529-MS1	Matrix Spike	Total	Soil	SW846 8260B	11F4529_P
11F4529-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8260B	11F4529_P

Prep Batch: 11F4149_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4149-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11F4149-BSD1	Lab Control Sample Dup	Total	Soil	EPA 5035	
11F4149-BLK1	Method Blank	Total	Soil	EPA 5035	
11F4149-BLK2	Method Blank	Total	Soil	EPA 5035	
NUF1686-01	F-04B(2-3')	Total	Soil	EPA 5035	
NUF1686-02	F-04B(8-9')	Total	Soil	EPA 5035	
NUF1686-06	F-03A(4-5')	Total	Soil	EPA 5035	
NUF1686-05	F-03A(1-3')	Total	Soil	EPA 5035	
11F4149-MS1	F-03A(4-5')	Total	Soil	EPA 5035	
11F4149-MSD1	F-03A(4-5')	Total	Soil	EPA 5035	

Prep Batch: 11F4529_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4529-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11F4529-BSD1	Lab Control Sample Dup	Total	Soil	EPA 5035	
11F4529-BLK1	Method Blank	Total	Soil	EPA 5035	
11F4529-BLK2	Method Blank	Total	Soil	EPA 5035	
NUF1686-03 - RE1	F-05A(0-1')	Total	Soil	EPA 5035	
NUF1686-03 - RE2	F-05A(0-1')	Total	Soil	EPA 5035	
NUF1686-04 - RE1	F-05B(0-1')	Total	Soil	EPA 5035	
NUF1686-04 - RE2	F-05B(0-1')	Total	Soil	EPA 5035	
11F4529-MS1	Matrix Spike	Total	Soil	EPA 5035	
11F4529-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 5035	

QC Association Summary

Client: PSC Industrial Outsourcing LP (3797) TestAmerica Job ID: NUF1686
Project/Site: [none]

GCMS Semivolatiles

Analysis Batch: 11F3190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3190-BLK1	Method Blank	Total	Soil	SW846 8270D	11F3190_P
11F3190-BS1	Lab Control Sample	Total	Soil	SW846 8270D	11F3190_P
11F3190-MS1	F-04B(2-3')	Total	Soil	SW846 8270D	11F3190_P
11F3190-MSD1	F-04B(2-3')	Total	Soil	SW846 8270D	11F3190_P
NUF1686-01	F-04B(2-3')	Total	Soil	SW846 8270D	11F3190_P
NUF1686-02	F-04B(8-9')	Total	Soil	SW846 8270D	11F3190_P
NUF1686-06	F-03A(4-5')	Total	Soil	SW846 8270D	11F3190_P
NUF1686-03	F-05A(0-1')	Total	Soil	SW846 8270D	11F3190_P
NUF1686-04	F-05B(0-1')	Total	Soil	SW846 8270D	11F3190_P
NUF1686-05	F-03A(1-3')	Total	Soil	SW846 8270D	11F3190_P

Prep Batch: 11F3190_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3190-BLK1	Method Blank	Total	Soil	EPA 3550C	
11F3190-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
11F3190-MS1	F-04B(2-3')	Total	Soil	EPA 3550C	
11F3190-MSD1	F-04B(2-3')	Total	Soil	EPA 3550C	
NUF1686-01	F-04B(2-3')	Total	Soil	EPA 3550C	
NUF1686-02	F-04B(8-9')	Total	Soil	EPA 3550C	
NUF1686-06	F-03A(4-5')	Total	Soil	EPA 3550C	
NUF1686-03	F-05A(0-1')	Total	Soil	EPA 3550C	
NUF1686-04	F-05B(0-1')	Total	Soil	EPA 3550C	
NUF1686-05	F-03A(1-3')	Total	Soil	EPA 3550C	

GC Semivolatiles

Analysis Batch: U010614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3199-BS1	Lab Control Sample	Total	Soil	SW846 8015B	11F3199_P
NUF1686-01	F-04B(2-3')	Total	Soil	SW846 8015B	11F3199_P

Analysis Batch: U010683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3198-BLK1	Method Blank	Total	Soil	SW846 8015B	11F3198_P
11F3198-BS1	Lab Control Sample	Total	Soil	SW846 8015B	11F3198_P

Analysis Batch: U010714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3199-BLK1	Method Blank	Total	Soil	SW846 8015B	11F3199_P
NUF1686-01 - RE1	F-04B(2-3')	Total	Soil	SW846 8015B	11F3199_P
NUF1686-02 - RE1	F-04B(8-9')	Total	Soil	SW846 8015B	11F3199_P
NUF1686-03 - RE1	F-05A(0-1')	Total	Soil	SW846 8015B	11F3199_P

Analysis Batch: U010796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUF1686-06	F-03A(4-5')	Total	Soil	SW846 8015B	11F3198_P
NUF1686-05 - RE1	F-03A(1-3')	Total	Soil	SW846 8015B	11F3198_P
NUF1686-04 - RE3	F-05B(0-1')	Total	Soil	SW846 8015B	11F3199_P

Prep Batch: 11F3198_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3198-BLK1	Method Blank	Total	Soil	EPA 3550B	

GC Semivolatiles (Continued)

Prep Batch: 11F3198_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3198-BS1	Lab Control Sample	Total	Soil	EPA 3550B	
NUF1686-06	F-03A(4-5')	Total	Soil	EPA 3550B	
NUF1686-05 - RE1	F-03A(1-3')	Total	Soil	EPA 3550B	

Prep Batch: 11F3199_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3199-BS1	Lab Control Sample	Total	Soil	EPA 3550B	
NUF1686-01	F-04B(2-3')	Total	Soil	EPA 3550B	
11F3199-BLK1	Method Blank	Total	Soil	EPA 3550B	
NUF1686-01 - RE1	F-04B(2-3')	Total	Soil	EPA 3550B	
NUF1686-02 - RE1	F-04B(8-9')	Total	Soil	EPA 3550B	
NUF1686-03 - RE1	F-05A(0-1')	Total	Soil	EPA 3550B	
NUF1686-04 - RE3	F-05B(0-1')	Total	Soil	EPA 3550B	

Pesticides

Analysis Batch: U010417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3179-BLK1	Method Blank	Total	Soil	SW846 8082A	11F3179_P
11F3179-BS1	Lab Control Sample	Total	Soil	SW846 8082A	11F3179_P
11F3179-MS1	F-04B(2-3')	Total	Soil	SW846 8082A	11F3179_P
11F3179-MSD1	F-04B(2-3')	Total	Soil	SW846 8082A	11F3179_P
NUF1686-01	F-04B(2-3')	Total	Soil	SW846 8082A	11F3179_P
NUF1686-02	F-04B(8-9')	Total	Soil	SW846 8082A	11F3179_P
NUF1686-03	F-05A(0-1')	Total	Soil	SW846 8082A	11F3179_P
NUF1686-04 - RE1	F-05B(0-1')	Total	Soil	SW846 8082A	11F3179_P
NUF1686-05 - RE1	F-03A(1-3')	Total	Soil	SW846 8082A	11F3179_P
NUF1686-06	F-03A(4-5')	Total	Soil	SW846 8082A	11F3179_P

Prep Batch: 11F3179_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3179-BLK1	Method Blank	Total	Soil	EPA 3550C/3665A	
11F3179-BS1	Lab Control Sample	Total	Soil	EPA 3550C/3665A	
11F3179-MS1	F-04B(2-3')	Total	Soil	EPA 3550C/3665A	
11F3179-MSD1	F-04B(2-3')	Total	Soil	EPA 3550C/3665A	
NUF1686-01	F-04B(2-3')	Total	Soil	EPA 3550C/3665A	
NUF1686-02	F-04B(8-9')	Total	Soil	EPA 3550C/3665A	
NUF1686-03	F-05A(0-1')	Total	Soil	EPA 3550C/3665A	
NUF1686-04 - RE1	F-05B(0-1')	Total	Soil	EPA 3550C/3665A	
NUF1686-05 - RE1	F-03A(1-3')	Total	Soil	EPA 3550C/3665A	
NUF1686-06	F-03A(4-5')	Total	Soil	EPA 3550C/3665A	

QC Association Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1686

Metals

Analysis Batch: 11F3237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3237-BLK1	Method Blank	Total	Soil	SW846 6010B	11F3237_P
11F3237-BS1	Lab Control Sample	Total	Soil	SW846 6010B	11F3237_P
11F3237-BSD1	Lab Control Sample Dup	Total	Soil	SW846 6010B	11F3237_P
NUF1686-01	F-04B(2-3')	Total	Soil	SW846 6010B	11F3237_P
11F3237-MS1	F-04B(2-3')	Total	Soil	SW846 6010B	11F3237_P
11F3237-MSD1	F-04B(2-3')	Total	Soil	SW846 6010B	11F3237_P
NUF1686-02	F-04B(8-9')	Total	Soil	SW846 6010B	11F3237_P
NUF1686-06	F-03A(4-5')	Total	Soil	SW846 6010B	11F3237_P
NUF1686-03	F-05A(0-1')	Total	Soil	SW846 6010B	11F3237_P
NUF1686-04	F-05B(0-1')	Total	Soil	SW846 6010B	11F3237_P
NUF1686-05	F-03A(1-3')	Total	Soil	SW846 6010B	11F3237_P

Analysis Batch: 11F3255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3255-BLK1	Method Blank	Total	Soil	SW846 7471A	11F3255_P
11F3255-BS1	Lab Control Sample	Total	Soil	SW846 7471A	11F3255_P
11F3255-BSD1	Lab Control Sample Dup	Total	Soil	SW846 7471A	11F3255_P
NUF1686-01	F-04B(2-3')	Total	Soil	SW846 7471A	11F3255_P
11F3255-MS1	F-04B(2-3')	Total	Soil	SW846 7471A	11F3255_P
11F3255-MSD1	F-04B(2-3')	Total	Soil	SW846 7471A	11F3255_P
NUF1686-02	F-04B(8-9')	Total	Soil	SW846 7471A	11F3255_P
NUF1686-03	F-05A(0-1')	Total	Soil	SW846 7471A	11F3255_P
NUF1686-04	F-05B(0-1')	Total	Soil	SW846 7471A	11F3255_P
NUF1686-05	F-03A(1-3')	Total	Soil	SW846 7471A	11F3255_P
NUF1686-06	F-03A(4-5')	Total	Soil	SW846 7471A	11F3255_P

Leach Batch: 11F3391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUF1686-07	F-IDW	TCLP	Soil	TCLP Extraction	
NUF1686-07	F-IDW	TCLP	Soil	TCLP Extraction	

Analysis Batch: 11F3472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3472-BLK1	Method Blank	TCLP	Water	SW846 1311/7470A	11F3472_P
11F3472-BS1	Lab Control Sample	TCLP	Water	SW846 1311/7470A	11F3472_P
11F3472-BSD1	Lab Control Sample Dup	TCLP	Water	SW846 1311/7470A	11F3472_P
NUF1686-07	F-IDW	TCLP	Soil	SW846 1311/7470A	11F3472_P
11F3472-MS1	Matrix Spike	TCLP	Water	SW846 1311/7470A	11F3472_P
11F3472-MSD1	Matrix Spike Duplicate	TCLP	Water	SW846 1311/7470A	11F3472_P

Analysis Batch: 11F3720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3720-BLK1	Method Blank	TCLP	Water	SW846 1311/6010B	11F3720_P
11F3720-BS1	Lab Control Sample	TCLP	Water	SW846 1311/6010B	11F3720_P
11F3720-BSD1	Lab Control Sample Dup	TCLP	Water	SW846 1311/6010B	11F3720_P
11F3720-MS1	Matrix Spike	TCLP	Water	SW846 1311/6010B	11F3720_P

Metals (Continued)

Analysis Batch: 11F3720 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3720-MSD1	Matrix Spike Duplicate	TCLP	Water	SW846 1311/6010B	11F3720_P
NUF1686-07	F-IDW	TCLP	Soil	SW846 1311/6010B	11F3720_P

Prep Batch: 11F3237_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3237-BLK1	Method Blank	Total	Soil	EPA 3051A/6010	
11F3237-BS1	Lab Control Sample	Total	Soil	EPA 3051A/6010	
11F3237-BSD1	Lab Control Sample Dup	Total	Soil	EPA 3051A/6010	
NUF1686-01	F-04B(2-3')	Total	Soil	EPA 3051A/6010	
11F3237-MS1	F-04B(2-3')	Total	Soil	EPA 3051A/6010	
11F3237-MSD1	F-04B(2-3')	Total	Soil	EPA 3051A/6010	
NUF1686-02	F-04B(8-9')	Total	Soil	EPA 3051A/6010	
NUF1686-06	F-03A(4-5')	Total	Soil	EPA 3051A/6010	
NUF1686-03	F-05A(0-1')	Total	Soil	EPA 3051A/6010	
NUF1686-04	F-05B(0-1')	Total	Soil	EPA 3051A/6010	
NUF1686-05	F-03A(1-3')	Total	Soil	EPA 3051A/6010	

Prep Batch: 11F3255_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3255-BLK1	Method Blank	Total	Soil	EPA 7471	
11F3255-BS1	Lab Control Sample	Total	Soil	EPA 7471	
11F3255-BSD1	Lab Control Sample Dup	Total	Soil	EPA 7471	
NUF1686-01	F-04B(2-3')	Total	Soil	EPA 7471	
11F3255-MS1	F-04B(2-3')	Total	Soil	EPA 7471	
11F3255-MSD1	F-04B(2-3')	Total	Soil	EPA 7471	
NUF1686-02	F-04B(8-9')	Total	Soil	EPA 7471	
NUF1686-03	F-05A(0-1')	Total	Soil	EPA 7471	
NUF1686-04	F-05B(0-1')	Total	Soil	EPA 7471	
NUF1686-05	F-03A(1-3')	Total	Soil	EPA 7471	
NUF1686-06	F-03A(4-5')	Total	Soil	EPA 7471	

Prep Batch: 11F3472_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3472-BLK1	Method Blank	TCLP	Water	EPA 7470	
11F3472-BS1	Lab Control Sample	TCLP	Water	EPA 7470	
11F3472-BSD1	Lab Control Sample Dup	TCLP	Water	EPA 7470	
NUF1686-07	F-IDW	TCLP	Soil	EPA 7470	11F3391
11F3472-MS1	Matrix Spike	TCLP	Water	EPA 7470	
11F3472-MSD1	Matrix Spike Duplicate	TCLP	Water	EPA 7470	

Prep Batch: 11F3720_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3720-BLK1	Method Blank	TCLP	Water	EPA 3015A	
11F3720-BS1	Lab Control Sample	TCLP	Water	EPA 3015A	
11F3720-BSD1	Lab Control Sample Dup	TCLP	Water	EPA 3015A	

Metals (Continued)

Prep Batch: 11F3720_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3720-MS1	Matrix Spike	TCLP	Water	EPA 3015A	
11F3720-MSD1	Matrix Spike Duplicate	TCLP	Water	EPA 3015A	
NUF1686-07	F-IDW	TCLP	Soil	EPA 3015A	11F3391

Extractions

Analysis Batch: 11F3263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3263-DUP1	F-03A(4-5')	Total	Soil	SW-846	11F3263_P
NUF1686-06	F-03A(4-5')	Total	Soil	SW-846	11F3263_P

Analysis Batch: 11F3326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3326-DUP1	Duplicate	Total	Soil	SW-846	11F3326_P
NUF1686-01	F-04B(2-3')	Total	Soil	SW-846	11F3326_P
NUF1686-02	F-04B(8-9')	Total	Soil	SW-846	11F3326_P
NUF1686-03	F-05A(0-1')	Total	Soil	SW-846	11F3326_P
NUF1686-04	F-05B(0-1')	Total	Soil	SW-846	11F3326_P
NUF1686-05	F-03A(1-3')	Total	Soil	SW-846	11F3326_P

Prep Batch: 11F3263_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3263-DUP1	F-03A(4-5')	Total	Soil	% Solids	
NUF1686-06	F-03A(4-5')	Total	Soil	% Solids	

Prep Batch: 11F3326_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3326-DUP1	Duplicate	Total	Soil	% Solids	
NUF1686-01	F-04B(2-3')	Total	Soil	% Solids	
NUF1686-02	F-04B(8-9')	Total	Soil	% Solids	
NUF1686-03	F-05A(0-1')	Total	Soil	% Solids	
NUF1686-04	F-05B(0-1')	Total	Soil	% Solids	
NUF1686-05	F-03A(1-3')	Total	Soil	% Solids	

Client Sample ID: F-04B(2-3')

Lab Sample ID: NUF1686-01
Date Collected: 06/08/11 09:55
Matrix: Soil
Date Received: 06/10/11 08:55
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.906	11F4149_P	06/14/11 17:40	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010630	06/16/11 19:06	MJH/H	TAL NSH
Total	Prep	EPA 3550C		0.985	11F3190_P	06/13/11 14:35	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3190	06/14/11 18:45	KJP	TAL NSH
Total	Prep	EPA 3550B		0.985	11F3199_P	06/14/11 09:35	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010614	06/16/11 07:27	JLF	TAL NSH
Total	Prep	EPA 3550B	RE1	0.985	11F3199_P	06/14/11 09:35	JJR	TAL NSH
Total	Analysis	SW846 8015B	RE1	4.00	U010714	06/17/11 05:07	KKH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.994	11F3179_P	06/14/11 07:35	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010417	06/14/11 20:10	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.952	11F3237_P	06/13/11 10:43	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3237	06/14/11 12:17	LTB	TAL NSH
Total	Prep	EPA 7471		0.96	11F3255_P	06/13/11 15:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3255	06/14/11 14:53	MB	TAL NSH
Total	Prep	% Solids		1.00	11F3326_P	06/13/11 16:22	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11F3326	06/14/11 09:24	RRS	TAL NSH

Client Sample ID: F-04B(8-9')

Lab Sample ID: NUF1686-02
Date Collected: 06/08/11 10:00
Matrix: Soil
Date Received: 06/10/11 08:55
Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.962	11F4149_P	06/14/11 17:43	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010630	06/16/11 19:33	MJH/H	TAL NSH
Total	Prep	EPA 3550C		0.975	11F3190_P	06/13/11 14:35	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3190	06/14/11 19:06	KJP	TAL NSH
Total	Prep	EPA 3550B	RE1	0.994	11F3199_P	06/14/11 09:35	JJR	TAL NSH
Total	Analysis	SW846 8015B	RE1	5.00	U010714	06/17/11 05:23	KKH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.988	11F3179_P	06/14/11 07:35	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010417	06/15/11 03:23	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		1.01	11F3237_P	06/13/11 10:43	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3237	06/14/11 12:27	LTB	TAL NSH
Total	Prep	EPA 7471		0.99	11F3255_P	06/13/11 15:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3255	06/14/11 15:07	MB	TAL NSH
Total	Prep	% Solids		1.00	11F3326_P	06/13/11 16:22	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11F3326	06/14/11 09:24	RRS	TAL NSH

Client Sample ID: F-05A(0-1')

Lab Sample ID: NUF1686-03
Date Collected: 06/08/11 12:35
Matrix: Soil
Date Received: 06/10/11 08:55
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035	RE1	0.923	11F4529_P	06/14/11 17:44	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U010726	06/17/11 13:57	MJH/H	TAL NSH
Total	Prep	EPA 5035	RE2	0.904	11F4529_P	06/14/11 17:44	TSP	TAL NSH

Client Sample ID: F-05A(0-1')

Lab Sample ID: NUF1686-03
Date Collected: 06/08/11 12:35
Matrix: Soil
Date Received: 06/10/11 08:55
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Analysis	SW846 8260B	RE2	50.0	U010726	06/17/11 14:25	MJH/H	TAL NSH
Total	Prep	EPA 3550C		1.99	11F3190_P	06/13/11 14:35	JJR	TAL NSH
Total	Analysis	SW846 8270D		2.00	11F3190	06/14/11 20:51	KJP	TAL NSH
Total	Prep	EPA 3550B	RE1	0.997	11F3199_P	06/14/11 09:35	JJR	TAL NSH
Total	Analysis	SW846 8015B	RE1	20.0	U010714	06/17/11 05:40	KKH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.980	11F3179_P	06/14/11 07:35	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010417	06/15/11 03:44	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.967	11F3237_P	06/13/11 10:43	RSO	TAL NSH
Total	Analysis	SW846 6010B		10.0	11F3237	06/14/11 23:11	LTB	TAL NSH
Total	Prep	EPA 7471		0.96	11F3255_P	06/13/11 15:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3255	06/14/11 15:10	MB	TAL NSH
Total	Prep	% Solids		1.00	11F3326_P	06/13/11 16:22	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11F3326	06/14/11 09:24	RRS	TAL NSH

Client Sample ID: F-05B(0-1')

Lab Sample ID: NUF1686-04
Date Collected: 06/08/11 12:35
Matrix: Soil
Date Received: 06/10/11 08:55
Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035	RE1	0.926	11F4529_P	06/14/11 17:47	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U010726	06/17/11 14:52	MJH/H	TAL NSH
Total	Prep	EPA 5035	RE2	0.958	11F4529_P	06/14/11 17:47	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE2	50.0	U010726	06/17/11 15:20	MJH/H	TAL NSH
Total	Prep	EPA 3550C		9.72	11F3190_P	06/13/11 14:35	JJR	TAL NSH
Total	Analysis	SW846 8270D		5.00	11F3190	06/14/11 21:33	KJP	TAL NSH
Total	Prep	EPA 3550B	RE3	4.95	11F3199_P	06/14/11 09:35	JJR	TAL NSH
Total	Analysis	SW846 8015B	RE3	50.0	U010796	06/18/11 18:22	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A	RE1	0.494	11F3179_P	06/14/11 07:35	JJR	TAL NSH
Total	Analysis	SW846 8082A	RE1	5.00	U010417	06/15/11 13:14	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.988	11F3237_P	06/13/11 10:43	RSO	TAL NSH
Total	Analysis	SW846 6010B		10.0	11F3237	06/14/11 23:15	LTB	TAL NSH
Total	Prep	EPA 7471		0.98	11F3255_P	06/13/11 15:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3255	06/14/11 15:13	MB	TAL NSH
Total	Prep	% Solids		1.00	11F3326_P	06/13/11 16:22	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11F3326	06/14/11 09:24	RRS	TAL NSH

Client Sample ID: F-03A(1-3')

Lab Sample ID: NUF1686-05
Date Collected: 06/08/11 13:40
Matrix: Soil
Date Received: 06/10/11 08:55
Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.924	11F4149_P	06/14/11 17:49	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010630	06/16/11 21:23	MJH/H	TAL NSH
Total	Prep	EPA 3550C		9.92	11F3190_P	06/13/11 14:35	JJR	TAL NSH
Total	Analysis	SW846 8270D		5.00	11F3190	06/14/11 21:54	KJP	TAL NSH

Client Sample ID: F-03A(1-3')

Lab Sample ID: NUF1686-05
Date Collected: 06/08/11 13:40
Matrix: Soil
Date Received: 06/10/11 08:55
Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B	RE1	1.99	11F3198_P	06/15/11 15:35	JJR	TAL NSH
Total	Analysis	SW846 8015B	RE1	25.0	U010796	06/18/11 00:44	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A	RE1	0.992	11F3179_P	06/14/11 07:35	JJR	TAL NSH
Total	Analysis	SW846 8082A	RE1	10.0	U010417	06/15/11 13:35	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.990	11F3237_P	06/13/11 10:43	RSO	TAL NSH
Total	Analysis	SW846 6010B		10.0	11F3237	06/14/11 23:18	LTB	TAL NSH
Total	Prep	EPA 7471		0.98	11F3255_P	06/13/11 15:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3255	06/14/11 15:15	MB	TAL NSH
Total	Prep	% Solids		1.00	11F3326_P	06/13/11 16:22	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11F3326	06/14/11 09:24	RRS	TAL NSH

Client Sample ID: F-03A(4-5')

Lab Sample ID: NUF1686-06
Date Collected: 06/08/11 13:35
Matrix: Soil
Date Received: 06/10/11 08:55
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.951	11F4149_P	06/14/11 17:50	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010630	06/16/11 20:01	MJH/H	TAL NSH
Total	Prep	EPA 3550C		0.980	11F3190_P	06/13/11 14:35	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3190	06/14/11 19:27	KJP	TAL NSH
Total	Prep	EPA 3550B		0.998	11F3198_P	06/15/11 15:35	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010796	06/17/11 23:56	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.995	11F3179_P	06/14/11 07:35	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010417	06/15/11 21:10	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.988	11F3237_P	06/13/11 10:43	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3237	06/14/11 12:40	LTB	TAL NSH
Total	Prep	EPA 7471		0.98	11F3255_P	06/13/11 15:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3255	06/14/11 15:18	MB	TAL NSH
Total	Prep	% Solids		1.00	11F3263_P	06/14/11 08:46	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11F3263	06/14/11 12:46	RRS	TAL NSH

Client Sample ID: F-IDW

Lab Sample ID: NUF1686-07
Date Collected: 06/08/11 12:00
Matrix: Soil
Date Received: 06/10/11 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
TCLP	Leach	TCLP Extraction		1.00	11F3391	06/14/11 15:00	SJM	TAL NSH
TCLP	Prep	EPA 3015A		1.00	11F3720_P	06/15/11 07:51	RSO	TAL NSH
TCLP	Analysis	SW846 1311/6010B		1.00	11F3720	06/16/11 08:32	LTB	TAL NSH
TCLP	Prep	EPA 7470		1.00	11F3472_P	06/16/11 13:20	DEB	TAL NSH
TCLP	Analysis	SW846 1311/7470A		1.00	11F3472	06/17/11 09:34	DEB	TAL NSH

Laboratory References:
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1686

Method	Method Description	Protocol	Laboratory
SW-846	General Chemistry Parameters		TAL NSH
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
SW846 8270D	Semivolatile Organic Compounds by EPA Method 8270D		TAL NSH
SW846 8015B	Extractable Petroleum Hydrocarbons		TAL NSH
SW846 8082A	Polychlorinated Biphenyls by EPA Method 8082A		TAL NSH
SW846 1311/6010B	TCLP Metals by 6000/7000 Series Methods		TAL NSH
SW846 1311/7470A	TCLP Metals by 6000/7000 Series Methods		TAL NSH
SW846 6010B	Total Metals by EPA Method 6010B		TAL NSH
SW846 7471A	Mercury by EPA Methods 7470A/7471A		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1686

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECI

NUF1686

Cooler Received/Opened On 6/9/2011 @ 0855

1. Tracking # 0085 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 9.6 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# _____

TEMP.

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

06/21/2011

TE THE LEADER IN ENVIRONMENTAL TESTING

NUF1686
06/21/11 23:59

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404
","Reg District (CA)")

Page 1 of 1

Client: PSC Industrial Outsourcing LP (3797)
Address: 210 West Sand Bank Rd.
City, State, Zip: Columbia IL 62236
Client Invoice Contact: Al Becker
Client Project Mgr: Al Becker
Client Telephone#: (618) 281-1550 Fax: (618) 281-7020
Sampler Name (Print) John Carrow
SamplerSignature:

TA Account #: 3797 PO #:
Invoice to: PSC Industrial Outsourcing LP (3797)
Report to: Al Becker
Project Name: Festus, Missouri
Facility ID: [none]
Reg District (CA):
Site Address: 9th & Delmar
City,State,Zip: Festus Missouri

Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: 8082A PCBs	8260B Volatile Organics	8270D Semivolatile Organics	Metals, RCRA Solid ICP 6010B	Metals, RCRA Water ICP 6010B	Metals, TCLP 6010B	TCLP Extraction Metals	TCLP Standard Extraction	TPH - Diesel Range/Oil Range SW8	TPH-Gasoline Range SW8015						RUSH TAT (Pre Schedule)*
F-04B (2-3')	6-8-11	953 ~~1035~~	2	X										X					X		X	X	X	X					X		-01					
F-04B (8-9')	6-8-11	1000	2	X										X					X		X	X	X	X					X		-02					
F-05A (0-1')	6-8-11	1235	2	X										X					X		X	X	X	X					X		-03					
F-05B (0-1')	6-8-11	1235	2	X										X					X		X	X	X	X					X		-04					
F-03A (1-3')	6-8-11	1340	2	X										X					X		X	X	X	X					X		-05					
F-03A (4-5')	6-8-11	1335	2	X										X					X		X	X	X	X					X		-06					
F-IDW	6-8-11	1200	1	X	X									X					X							X					-07					

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.
* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.
There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES/SPECIAL INSTRUCTIONS: BO # 25017
Contact John Carrow for any questions
618-792-2468
JCarrow@pscnow.com
Ran out of 402 JARS
Filled 2-802 for Analysis

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
	6-8-11	1645						
Shipped Via:			Shipped Via:					
Received for TestAmerica by:	Date: 6/9/11	Time: 8:55	Temperature Upon Receipt: 4°C	Sample Containers Intact? Y N VOCs Free of Headspace? Y N		QC Deliverables (Please Circle One) : Level 2 Level 3 Level 4 Site Specific (If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)	Date Due of Report:	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUF1697
Client Project/Site: [none]
Client Project Description: Festus, Missouri

For:
PSC Industrial Outsourcing LP (3797)
210 West Sand Bank Rd.
Columbia, IL 62236

Attn: Al Becker

Madonna Myers

Authorized for release by:
06/21/2011 11:19:41 AM

Madonna Myers
Project Manager
madonna.myers@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Sample Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1697

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUF1697-01	D Baler	Water	06/08/11 14:00	06/10/11 00:00
NUF1697-02	Tunnel	Water	06/08/11 14:30	06/10/11 00:00
NUF1697-03	F-01 A	Water	06/08/11 09:30	06/10/11 00:00
NUF1697-04	Tunnel	Oil	06/08/11 14:30	06/10/11 00:00
NUF1697-05	D Baler	Oil	06/08/11 14:00	06/10/11 00:00

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
CF7	Result may be elevated due to carry over from previously analyzed sample.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
R2	The RPD exceeded the acceptance limit.
RL1	Reporting limit raised due to sample matrix effects.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

GCMS Semivolatiles

Qualifier	Qualifier Description
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.
RL1	Reporting limit raised due to sample matrix effects.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

GC Semivolatiles

Qualifier	Qualifier Description
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.
S10	Insufficient sample available for reanalysis.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Pesticides

Qualifier	Qualifier Description
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client Sample ID: D Baler — Lab Sample ID: NUF1697-01

Date Collected: 06/08/11 14:00 **Matrix: Water**
Date Received: 06/10/11 00:00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
sec-Butylbenzene	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
n-Butylbenzene	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
tert-Butylbenzene	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
2-Chlorotoluene	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
4-Chlorotoluene	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
1,2-Dibromo-3-chloropropane	ND	RL1	250		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
1,4-Dichlorobenzene	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
1,3-Dichlorobenzene	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
1,2-Dichlorobenzene	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
Hexachlorobutadiene	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
p-Isopropyltoluene	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
Naphthalene	ND	RL1	250		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
n-Propylbenzene	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
1,1,2,2-Tetrachloroethane	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
1,2,3-Trichlorobenzene	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
1,2,4-Trichlorobenzene	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
1,2,3-Trichloropropane	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
1,3,5-Trimethylbenzene	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0
1,2,4-Trimethylbenzene	ND	RL1	50.0		ug/L		06/14/11 17:55	06/15/11 01:46	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*101*		*63 - 140*	*06/14/11 17:55*	*06/15/11 01:46*	*50.0*
Dibromofluoromethane	*96*		*73 - 131*	*06/14/11 17:55*	*06/15/11 01:46*	*50.0*
Toluene-d8	*104*		*80 - 120*	*06/14/11 17:55*	*06/15/11 01:46*	*50.0*
4-Bromofluorobenzene	*108*		*79 - 125*	*06/14/11 17:55*	*06/15/11 01:46*	*50.0*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**129**		50.0		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Benzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Bromochloromethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Bromodichloromethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Bromoform	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Bromomethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
2-Butanone	ND		50.0		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Carbon disulfide	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Carbon Tetrachloride	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Chlorobenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Chlorodibromomethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Chloroethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Chloroform	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Chloromethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Dibromomethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
1,1-Dichloroethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
1,2-Dichloroethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
1,1-Dichloroethene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00

Client Sample ID: D Baler — Lab Sample ID: NUF1697-01

Date Collected: 06/08/11 14:00 **Matrix: Water**
Date Received: 06/10/11 00:00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
1,2-Dichloropropane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
2,2-Dichloropropane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
1,1-Dichloropropene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Ethylbenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
2-Hexanone	ND		50.0		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Isopropylbenzene	ND	L	1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Methylene Chloride	ND		5.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Styrene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Tetrachloroethene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Toluene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Trichloroethene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Trichlorofluoromethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Vinyl chloride	ND		1.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00
Xylenes, total	ND		3.00		ug/L		06/15/11 17:59	06/15/11 23:47	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*103*		*63 - 140*	*06/15/11 17:59*	*06/15/11 23:47*	*1.00*
Dibromofluoromethane	*96*		*73 - 131*	*06/15/11 17:59*	*06/15/11 23:47*	*1.00*
Toluene-d8	*109*		*80 - 120*	*06/15/11 17:59*	*06/15/11 23:47*	*1.00*
4-Bromofluorobenzene	*169*	*ZX*	*79 - 125*	*06/15/11 17:59*	*06/15/11 23:47*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Acenaphthylene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Anthracene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Benzo (a) anthracene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Benzo (a) pyrene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Benzo (b) fluoranthene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Benzo (g,h,i) perylene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Benzo (k) fluoranthene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
4-Bromophenyl phenyl ether	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Butyl benzyl phthalate	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Carbazole	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
4-Chloro-3-methylphenol	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
4-Chloroaniline	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Bis(2-chloroethoxy)methane	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Bis(2-chloroethyl)ether	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Bis(2-chloroisopropyl)ether	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
2-Chloronaphthalene	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
2-Chlorophenol	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
4-Chlorophenyl phenyl ether	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Chrysene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00

Client Sample ID: D Baler

Lab Sample ID: NUF1697-01

Date Collected: 06/08/11 14:00

Matrix: Water

Date Received: 06/10/11 00:00

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz (a,h) anthracene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Dibenzofuran	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Di-n-butyl phthalate	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
1,4-Dichlorobenzene	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
1,2-Dichlorobenzene	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
1,3-Dichlorobenzene	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
3,3-Dichlorobenzidine	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
2,4-Dichlorophenol	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Diethyl phthalate	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
2,4-Dimethylphenol	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Dimethyl phthalate	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
4,6-Dinitro-2-methylphenol	ND	RL1	1250000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
2,4-Dinitrophenol	ND	RL1	1250000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
2,6-Dinitrotoluene	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
2,4-Dinitrotoluene	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Di-n-octyl phthalate	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Bis(2-ethylhexyl)phthalate	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Fluoranthene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Fluorene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Hexachlorobenzene	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Hexachlorobutadiene	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Hexachlorocyclopentadiene	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Hexachloroethane	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Indeno (1,2,3-cd) pyrene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Isophorone	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
2-Methylnaphthalene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
2-Methylphenol	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
3/4-Methylphenol	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Naphthalene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
3-Nitroaniline	ND	RL1	1250000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
2-Nitroaniline	ND	RL1	1250000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
4-Nitroaniline	ND	RL1	1250000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Nitrobenzene	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
4-Nitrophenol	ND	RL1	1250000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
2-Nitrophenol	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
N-Nitrosodiphenylamine	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
N-Nitrosodi-n-propylamine	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Pentachlorophenol	ND	RL1	1250000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Phenanthrene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Phenol	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
Pyrene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
1,2,4-Trichlorobenzene	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
1-Methylnaphthalene	ND	RL1	100000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
2,4,6-Trichlorophenol	ND	RL1	500000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00
2,4,5-Trichlorophenol	ND	RL1	1250000		ug/L		06/13/11 11:15	06/13/11 21:48	5.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14		*Z3*	*13 - 120*	*06/13/11 11:15*	*06/13/11 21:48*	*5.00*
2,4,6-Tribromophenol		*Z3*	*29 - 132*	*06/13/11 11:15*	*06/13/11 21:48*	*5.00*
Phenol-d5		*Z3*	*10 - 120*	*06/13/11 11:15*	*06/13/11 21:48*	*5.00*
2-Fluorobiphenyl		*Z3*	*29 - 120*	*06/13/11 11:15*	*06/13/11 21:48*	*5.00*

Client Sample ID: D Baler — Lab Sample ID: NUF1697-01

Date Collected: 06/08/11 14:00 **Matrix: Water**
Date Received: 06/10/11 00:00

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol		Z3	10 - 120	06/13/11 11:15	06/13/11 21:48	5.00
Nitrobenzene-d5		Z3	27 - 120	06/13/11 11:15	06/13/11 21:48	5.00

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		100		ug/L		06/08/11 14:00	06/15/11 17:31	1.00

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	108		60 - 150	06/08/11 14:00	06/15/11 17:31	1.00

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**44200000**	**S10**	10000000		ug/L		06/14/11 05:30	06/18/11 01:32	100
TPH - Oil Range	**88200000**		10000000		ug/L		06/14/11 05:30	06/18/11 01:32	100

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl		Z3	53 - 140	06/14/11 05:30	06/18/11 01:32	100

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 12:02	1.00
Barium	**0.257**		0.0100		mg/L		06/15/11 06:20	06/15/11 12:02	1.00
Cadmium	**0.00490**		0.00100		mg/L		06/15/11 06:20	06/15/11 12:02	1.00
Chromium	**0.00680**		0.00500		mg/L		06/15/11 06:20	06/15/11 12:02	1.00
Lead	**0.524**		0.00500		mg/L		06/15/11 06:20	06/15/11 12:02	1.00
Selenium	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 12:02	1.00
Silver	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 12:02	1.00

Method: SW846 7470A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00113**		0.000200		mg/L		06/14/11 10:40	06/14/11 17:17	1.00

Client Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1697

Client Sample ID: Tunnel

Lab Sample ID: NUF1697-02

Date Collected: 06/08/11 14:30

Matrix: Water

Date Received: 06/10/11 00:00

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 12:18	1.00
Barium	**1.69**		0.0100		mg/L		06/15/11 06:20	06/15/11 12:18	1.00
Cadmium	**0.0196**		0.00100		mg/L		06/15/11 06:20	06/15/11 12:18	1.00
Chromium	**0.0164**		0.00500		mg/L		06/15/11 06:20	06/15/11 12:18	1.00
Lead	**1.88**		0.00500		mg/L		06/15/11 06:20	06/15/11 12:18	1.00
Selenium	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 12:18	1.00
Silver	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 12:18	1.00

Method: SW846 7470A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00285**		0.000200		mg/L		06/14/11 10:40	06/14/11 17:19	1.00

Client Sample ID: F-01 A

Lab Sample ID: NUF1697-03

Date Collected: 06/08/11 09:30
Matrix: Water
Date Received: 06/10/11 00:00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Benzene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Bromobenzene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Bromochloromethane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Bromodichloromethane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Bromoform	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Bromomethane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
2-Butanone	ND		50.0		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
sec-Butylbenzene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
n-Butylbenzene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
tert-Butylbenzene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Carbon disulfide	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Carbon Tetrachloride	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Chlorobenzene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Chlorodibromomethane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Chloroethane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Chloroform	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Chloromethane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
2-Chlorotoluene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
4-Chlorotoluene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Dibromomethane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,1-Dichloroethane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,2-Dichloroethane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,1-Dichloroethene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,3-Dichloropropane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,2-Dichloropropane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
2,2-Dichloropropane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,1-Dichloropropene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Ethylbenzene	**3.58**		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Hexachlorobutadiene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
2-Hexanone	ND		50.0		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Isopropylbenzene	ND	L	1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
p-Isopropyltoluene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Methyl tert-Butyl Ether	**3.84**		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Methylene Chloride	ND		5.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Naphthalene	**6.26**		5.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
n-Propylbenzene	**1.34**		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Styrene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00

Client Sample ID: F-01 A — Lab Sample ID: NUF1697-03

Date Collected: 06/08/11 09:30 **Matrix: Water**
Date Received: 06/10/11 00:00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Tetrachloroethene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Toluene	**1.54**		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Trichloroethene	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Trichlorofluoromethane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,3,5-Trimethylbenzene	**4.41**		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
1,2,4-Trimethylbenzene	**15.1**		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Vinyl chloride	ND		1.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00
Xylenes, total	**25.0**		3.00		ug/L		06/14/11 17:55	06/15/11 01:19	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*102*		*63 - 140*	*06/14/11 17:55*	*06/15/11 01:19*	*1.00*
Dibromofluoromethane	*95*		*73 - 131*	*06/14/11 17:55*	*06/15/11 01:19*	*1.00*
Toluene-d8	*105*		*80 - 120*	*06/14/11 17:55*	*06/15/11 01:19*	*1.00*
4-Bromofluorobenzene	*107*		*79 - 125*	*06/14/11 17:55*	*06/15/11 01:19*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Acenaphthylene	ND		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Anthracene	ND		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Benzo (a) anthracene	ND		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Benzo (a) pyrene	ND		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Benzo (b) fluoranthene	ND		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Benzo (g,h,i) perylene	ND		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Benzo (k) fluoranthene	ND		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
4-Bromophenyl phenyl ether	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Butyl benzyl phthalate	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Carbazole	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
4-Chloro-3-methylphenol	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
4-Chloroaniline	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Bis(2-chloroethoxy)methane	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Bis(2-chloroethyl)ether	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Bis(2-chloroisopropyl)ether	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
2-Chloronaphthalene	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
2-Chlorophenol	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
4-Chlorophenyl phenyl ether	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Chrysene	ND		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Dibenz (a,h) anthracene	ND		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Dibenzofuran	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Di-n-butyl phthalate	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
1,4-Dichlorobenzene	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
1,2-Dichlorobenzene	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
1,3-Dichlorobenzene	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
3,3-Dichlorobenzidine	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
2,4-Dichlorophenol	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00

Client Sample ID: F-01 A — Lab Sample ID: NUF1697-03

Date Collected: 06/08/11 09:30 **Matrix: Water**
Date Received: 06/10/11 00:00

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
2,4-Dimethylphenol	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Dimethyl phthalate	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
4,6-Dinitro-2-methylphenol	ND		23.8		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
2,4-Dinitrophenol	ND		23.8		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
2,6-Dinitrotoluene	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
2,4-Dinitrotoluene	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Di-n-octyl phthalate	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Bis(2-ethylhexyl)phthalate	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Fluoranthene	ND		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Fluorene	ND		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Hexachlorobenzene	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Hexachlorobutadiene	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Hexachlorocyclopentadiene	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Hexachloroethane	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Indeno (1,2,3-cd) pyrene	ND		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Isophorone	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
2-Methylnaphthalene	**2.58**		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
2-Methylphenol	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
3/4-Methylphenol	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Naphthalene	**3.90**		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
3-Nitroaniline	ND		23.8		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
2-Nitroaniline	ND		23.8		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
4-Nitroaniline	ND		23.8		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Nitrobenzene	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
4-Nitrophenol	ND		23.8		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
2-Nitrophenol	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
N-Nitrosodiphenylamine	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
N-Nitrosodi-n-propylamine	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Pentachlorophenol	ND		23.8		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Phenanthrene	ND		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Phenol	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
Pyrene	ND		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
1,2,4-Trichlorobenzene	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
1-Methylnaphthalene	ND		1.90		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
2,4,6-Trichlorophenol	ND		9.52		ug/L		06/13/11 11:15	06/13/11 21:27	1.00
2,4,5-Trichlorophenol	ND		23.8		ug/L		06/13/11 11:15	06/13/11 21:27	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*40*		*13 - 120*	*06/13/11 11:15*	*06/13/11 21:27*	*1.00*
2,4,6-Tribromophenol	*53*		*29 - 132*	*06/13/11 11:15*	*06/13/11 21:27*	*1.00*
Phenol-d5	*22*		*10 - 120*	*06/13/11 11:15*	*06/13/11 21:27*	*1.00*
2-Fluorobiphenyl	*49*		*29 - 120*	*06/13/11 11:15*	*06/13/11 21:27*	*1.00*
2-Fluorophenol	*33*		*10 - 120*	*06/13/11 11:15*	*06/13/11 21:27*	*1.00*
Nitrobenzene-d5	*53*		*27 - 120*	*06/13/11 11:15*	*06/13/11 21:27*	*1.00*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	**145**		100		ug/L		06/14/11 16:06	06/15/11 02:09	1.00

Client Sample ID: F-01 A — Lab Sample ID: NUF1697-03

Date Collected: 06/08/11 09:30 **Matrix: Water**
Date Received: 06/10/11 00:00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*106*		*60 - 150*	*06/14/11 16:06*	*06/15/11 02:09*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**13200**		476		ug/L		06/14/11 05:30	06/17/11 06:12	5.00
TPH - Oil Range	**6300**		476		ug/L		06/14/11 05:30	06/17/11 06:12	5.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*53 - 140*	*06/14/11 05:30*	*06/17/11 06:12*	*5.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.490		ug/L		06/13/11 12:30	06/14/11 03:45	1.00
PCB-1221	ND		0.490		ug/L		06/13/11 12:30	06/14/11 03:45	1.00
PCB-1232	ND		0.490		ug/L		06/13/11 12:30	06/14/11 03:45	1.00
PCB-1242	ND		0.490		ug/L		06/13/11 12:30	06/14/11 03:45	1.00
PCB-1248	ND		0.490		ug/L		06/13/11 12:30	06/14/11 03:45	1.00
PCB-1254	ND		0.490		ug/L		06/13/11 12:30	06/14/11 03:45	1.00
PCB-1260	ND		0.490		ug/L		06/13/11 12:30	06/14/11 03:45	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*66*		*17 - 142*	*06/13/11 12:30*	*06/14/11 03:45*	*1.00*
Decachlorobiphenyl	*86*		*10 - 149*	*06/13/11 12:30*	*06/14/11 03:45*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 12:21	1.00
Barium	**0.259**		0.0100		mg/L		06/15/11 06:20	06/15/11 12:21	1.00
Cadmium	ND		0.00100		mg/L		06/15/11 06:20	06/15/11 12:21	1.00
Chromium	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 12:21	1.00
Lead	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 12:21	1.00
Selenium	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 12:21	1.00
Silver	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 12:21	1.00

Method: SW846 7470A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/14/11 10:40	06/14/11 17:21	1.00

Client Sample ID: Tunnel — Lab Sample ID: NUF1697-04

Date Collected: 06/08/11 14:30 **Matrix: Oil**
Date Received: 06/10/11 00:00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Benzene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Bromobenzene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Bromochloromethane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Bromodichloromethane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Bromoform	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Bromomethane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
2-Butanone	ND		25.0		mg/kg		06/14/11 17:34	06/15/11 02:14	500
sec-Butylbenzene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
n-Butylbenzene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
tert-Butylbenzene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Carbon disulfide	ND		2.50		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Carbon Tetrachloride	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Chlorobenzene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Chlorodibromomethane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Chloroethane	ND		2.50		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Chloroform	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Chloromethane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
2-Chlorotoluene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
4-Chlorotoluene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,2-Dibromo-3-chloropropane	ND		2.50		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,2-Dibromoethane (EDB)	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Dibromomethane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,4-Dichlorobenzene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,3-Dichlorobenzene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,2-Dichlorobenzene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Dichlorodifluoromethane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,1-Dichloroethane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,2-Dichloroethane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
cis-1,2-Dichloroethene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,1-Dichloroethene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
trans-1,2-Dichloroethene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,3-Dichloropropane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,2-Dichloropropane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
2,2-Dichloropropane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
cis-1,3-Dichloropropene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
trans-1,3-Dichloropropene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,1-Dichloropropene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Ethylbenzene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Hexachlorobutadiene	ND		2.50		mg/kg		06/14/11 17:34	06/15/11 02:14	500
2-Hexanone	ND		25.0		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Isopropylbenzene	ND	L	1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
p-Isopropyltoluene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Methyl tert-Butyl Ether	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Methylene Chloride	ND		5.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
4-Methyl-2-pentanone	ND		25.0		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Naphthalene	ND		2.50		mg/kg		06/14/11 17:34	06/15/11 02:14	500
n-Propylbenzene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Styrene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,1,1,2-Tetrachloroethane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500

Client Sample ID: Tunnel — Lab Sample ID: NUF1697-04

Date Collected: 06/08/11 14:30 **Matrix: Oil**
Date Received: 06/10/11 00:00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Tetrachloroethene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Toluene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,2,3-Trichlorobenzene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,2,4-Trichlorobenzene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,1,2-Trichloroethane	ND		2.50		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,1,1-Trichloroethane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Trichloroethene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Trichlorofluoromethane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,2,3-Trichloropropane	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,3,5-Trimethylbenzene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
1,2,4-Trimethylbenzene	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Vinyl chloride	ND		1.00		mg/kg		06/14/11 17:34	06/15/11 02:14	500
Xylenes, total	ND		2.50		mg/kg		06/14/11 17:34	06/15/11 02:14	500

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*102*		*41 - 150*	*06/14/11 17:34*	*06/15/11 02:14*	*500*
Dibromofluoromethane	*93*		*55 - 139*	*06/14/11 17:34*	*06/15/11 02:14*	*500*
Toluene-d8	*105*		*57 - 148*	*06/14/11 17:34*	*06/15/11 02:14*	*500*
4-Bromofluorobenzene	*109*		*58 - 150*	*06/14/11 17:34*	*06/15/11 02:14*	*500*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Acenaphthylene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Anthracene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Benzo (a) anthracene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Benzo (a) pyrene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Benzo (b) fluoranthene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Benzo (g,h,i) perylene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Benzo (k) fluoranthene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
4-Bromophenyl phenyl ether	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Butyl benzyl phthalate	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Carbazole	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
4-Chloro-3-methylphenol	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
4-Chloroaniline	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Bis(2-chloroethoxy)methane	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Bis(2-chloroethyl)ether	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Bis(2-chloroisopropyl)ether	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
2-Chloronaphthalene	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
2-Chlorophenol	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
4-Chlorophenyl phenyl ether	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Chrysene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Dibenz (a,h) anthracene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Dibenzofuran	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Di-n-butyl phthalate	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
1,4-Dichlorobenzene	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
1,2-Dichlorobenzene	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
1,3-Dichlorobenzene	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
3,3-Dichlorobenzidine	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
2,4-Dichlorophenol	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00

Client Sample ID: Tunnel

Lab Sample ID: NUF1697-04

Date Collected: 06/08/11 14:30

Matrix: Oil

Date Received: 06/10/11 00:00

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
2,4-Dimethylphenol	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Dimethyl phthalate	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
4,6-Dinitro-2-methylphenol	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
2,4-Dinitrophenol	ND		248		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
2,6-Dinitrotoluene	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
2,4-Dinitrotoluene	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Di-n-octyl phthalate	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Bis(2-ethylhexyl)phthalate	**689**		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Fluoranthene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Fluorene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Hexachlorobenzene	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Hexachlorobutadiene	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Hexachlorocyclopentadiene	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Hexachloroethane	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Indeno (1,2,3-cd) pyrene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Isophorone	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
2-Methylnaphthalene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
2-Methylphenol	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
3/4-Methylphenol	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Naphthalene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
3-Nitroaniline	ND		248		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
2-Nitroaniline	ND		248		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
4-Nitroaniline	ND		248		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Nitrobenzene	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
4-Nitrophenol	ND		248		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
2-Nitrophenol	ND		248		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
N-Nitrosodiphenylamine	ND		248		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
N-Nitrosodi-n-propylamine	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Pentachlorophenol	ND		248		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Phenanthrene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Phenol	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
Pyrene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
1,2,4-Trichlorobenzene	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
1-Methylnaphthalene	ND		19.8		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
2,4,6-Trichlorophenol	ND		99.0		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00
2,4,5-Trichlorophenol	ND		248		mg/kg		06/14/11 13:10	06/15/11 16:57	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*168*	*ZX*	*18 - 120*	*06/14/11 13:10*	*06/15/11 16:57*	*1.00*
2,4,6-Tribromophenol	*86*		*19 - 120*	*06/14/11 13:10*	*06/15/11 16:57*	*1.00*
Phenol-d5	*111*		*18 - 120*	*06/14/11 13:10*	*06/15/11 16:57*	*1.00*
2-Fluorobiphenyl	*110*		*14 - 120*	*06/14/11 13:10*	*06/15/11 16:57*	*1.00*
2-Fluorophenol	*109*		*17 - 120*	*06/14/11 13:10*	*06/15/11 16:57*	*1.00*
Nitrobenzene-d5	*111*		*17 - 120*	*06/14/11 13:10*	*06/15/11 16:57*	*1.00*

Client Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1697

Client Sample ID: D Baler

Lab Sample ID: NUF1697-05

Date Collected: 06/08/11 14:00
Matrix: Oil
Date Received: 06/10/11 00:00

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		3.88		mg/kg		06/15/11 06:33	06/16/11 10:03	8.00
PCB-1221	ND		3.88		mg/kg		06/15/11 06:33	06/16/11 10:03	8.00
PCB-1232	ND		3.88		mg/kg		06/15/11 06:33	06/16/11 10:03	8.00
PCB-1242	**133**		3.88		mg/kg		06/15/11 06:33	06/16/11 10:03	8.00
PCB-1248	ND		3.88		mg/kg		06/15/11 06:33	06/16/11 10:03	8.00
PCB-1254	ND		3.88		mg/kg		06/15/11 06:33	06/16/11 10:03	8.00
PCB-1260	ND		3.88		mg/kg		06/15/11 06:33	06/16/11 10:03	8.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*80*		*19 - 147*	*06/15/11 06:33*	*06/16/11 10:03*	*8.00*
Decachlorobiphenyl	*112*		*20 - 150*	*06/15/11 06:33*	*06/16/11 10:03*	*8.00*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11F2889-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010563 **Prep Batch: 11F2889_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Benzene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Bromobenzene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Bromochloromethane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Bromodichloromethane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Bromoform	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Bromomethane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
2-Butanone	ND		50.0		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
sec-Butylbenzene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
n-Butylbenzene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
tert-Butylbenzene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Carbon disulfide	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Carbon Tetrachloride	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Chlorobenzene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Chlorodibromomethane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Chloroethane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Chloroform	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Chloromethane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
2-Chlorotoluene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
4-Chlorotoluene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Dibromomethane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,1-Dichloroethane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,2-Dichloroethane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,1-Dichloroethene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,3-Dichloropropane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,2-Dichloropropane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
2,2-Dichloropropane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,1-Dichloropropene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Ethylbenzene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Hexachlorobutadiene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
2-Hexanone	ND		50.0		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Isopropylbenzene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
p-Isopropyltoluene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Methylene Chloride	ND		5.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Naphthalene	ND		5.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
n-Propylbenzene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Styrene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2889-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010563 **Prep Batch: 11F2889_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Tetrachloroethene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Toluene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Trichloroethene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Trichlorofluoromethane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Vinyl chloride	ND		1.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00
Xylenes, total	ND		3.00		ug/L		06/14/11 17:55	06/14/11 20:41	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*104*		*63 - 140*	*06/14/11 17:55*	*06/14/11 20:41*	*1.00*
Dibromofluoromethane	*95*		*73 - 131*	*06/14/11 17:55*	*06/14/11 20:41*	*1.00*
Toluene-d8	*105*		*80 - 120*	*06/14/11 17:55*	*06/14/11 20:41*	*1.00*
4-Bromofluorobenzene	*110*		*79 - 125*	*06/14/11 17:55*	*06/14/11 20:41*	*1.00*

Lab Sample ID: 11F2889-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010563 **Prep Batch: 11F2889_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	300		ug/L		120	56 - 150
Benzene	50.0	56.7		ug/L		113	80 - 121
Bromobenzene	50.0	53.6		ug/L		107	72 - 130
Bromochloromethane	50.0	55.2		ug/L		110	73 - 137
Bromodichloromethane	50.0	55.7		ug/L		111	75 - 131
Bromoform	50.0	49.3		ug/L		99	65 - 140
Bromomethane	50.0	47.6		ug/L		95	50 - 150
2-Butanone	250	248		ug/L		99	70 - 144
sec-Butylbenzene	50.0	58.3		ug/L		117	72 - 140
n-Butylbenzene	50.0	59.1		ug/L		118	68 - 140
tert-Butylbenzene	50.0	57.0		ug/L		114	76 - 135
Carbon disulfide	50.0	51.4		ug/L		103	74 - 137
Carbon Tetrachloride	50.0	49.2		ug/L		98	71 - 137
Chlorobenzene	50.0	56.3		ug/L		113	80 - 121
Chlorodibromomethane	50.0	52.8		ug/L		106	68 - 137
Chloroethane	50.0	51.8		ug/L		104	50 - 146
Chloroform	50.0	54.6		ug/L		109	73 - 131
Chloromethane	50.0	43.0		ug/L		86	30 - 132
2-Chlorotoluene	50.0	53.6		ug/L		107	74 - 135
4-Chlorotoluene	50.0	56.1		ug/L		112	74 - 132
1,2-Dibromo-3-chloropropane	50.0	47.9		ug/L		96	56 - 145
1,2-Dibromoethane (EDB)	50.0	59.0		ug/L		118	80 - 135

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2889-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010563 **Prep Batch: 11F2889_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Dibromomethane	50.0	54.0		ug/L		108	78 - 133
1,4-Dichlorobenzene	50.0	54.5		ug/L		109	80 - 120
1,3-Dichlorobenzene	50.0	54.6		ug/L		109	80 - 128
1,2-Dichlorobenzene	50.0	54.6		ug/L		109	80 - 125
Dichlorodifluoromethane	50.0	48.1		ug/L		96	30 - 132
1,1-Dichloroethane	50.0	57.6		ug/L		115	75 - 125
1,2-Dichloroethane	50.0	55.8		ug/L		112	70 - 134
cis-1,2-Dichloroethene	50.0	58.0		ug/L		116	71 - 132
1,1-Dichloroethene	50.0	56.4		ug/L		113	73 - 125
trans-1,2-Dichloroethene	50.0	56.8		ug/L		114	77 - 125
1,3-Dichloropropane	50.0	58.9		ug/L		118	76 - 125
1,2-Dichloropropane	50.0	51.6		ug/L		103	72 - 120
2,2-Dichloropropane	50.0	65.2		ug/L		130	50 - 150
cis-1,3-Dichloropropene	50.0	66.1		ug/L		132	70 - 140
trans-1,3-Dichloropropene	50.0	55.1		ug/L		110	62 - 139
1,1-Dichloropropene	50.0	57.1		ug/L		114	78 - 126
Ethylbenzene	50.0	60.0		ug/L		120	78 - 133
Hexachlorobutadiene	50.0	50.4		ug/L		101	70 - 150
2-Hexanone	250	327		ug/L		131	60 - 150
Isopropylbenzene	50.0	68.1	L1	ug/L		136	69 - 120
p-Isopropyltoluene	50.0	58.4		ug/L		117	72 - 134
Methyl tert-Butyl Ether	50.0	57.0		ug/L		114	76 - 120
Methylene Chloride	50.0	52.6		ug/L		105	80 - 133
4-Methyl-2-pentanone	250	303		ug/L		121	62 - 146
Naphthalene	50.0	57.1		ug/L		114	71 - 139
n-Propylbenzene	50.0	56.8		ug/L		114	70 - 143
Styrene	50.0	64.1		ug/L		128	80 - 136
1,1,1,2-Tetrachloroethane	50.0	52.2		ug/L		104	80 - 130
1,1,2,2-Tetrachloroethane	50.0	52.2		ug/L		104	73 - 131
Tetrachloroethene	50.0	58.6		ug/L		117	77 - 131
Toluene	50.0	58.7		ug/L		117	78 - 125
1,2,3-Trichlorobenzene	50.0	57.8		ug/L		116	71 - 138
1,2,4-Trichlorobenzene	50.0	54.4		ug/L		109	74 - 136
1,1,2-Trichloroethane	50.0	57.8		ug/L		116	80 - 123
1,1,1-Trichloroethane	50.0	56.7		ug/L		113	75 - 137
Trichloroethene	50.0	54.3		ug/L		109	74 - 139
Trichlorofluoromethane	50.0	49.4		ug/L		99	60 - 133
1,2,3-Trichloropropane	50.0	54.7		ug/L		109	64 - 127
1,3,5-Trimethylbenzene	50.0	58.2		ug/L		116	75 - 134
1,2,4-Trimethylbenzene	50.0	57.6		ug/L		115	77 - 134
Vinyl chloride	50.0	49.6		ug/L		99	60 - 122
Xylenes, total	150	189		ug/L		126	78 - 134

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*96*		*63 - 140*
Dibromofluoromethane	*99*		*73 - 131*
Toluene-d8	*103*		*80 - 120*
4-Bromofluorobenzene	*96*		*79 - 125*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2889-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010563 **Prep Batch: 11F2889_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	250	296		ug/L		118	56 - 150	1	31
Benzene	50.0	52.4		ug/L		105	80 - 121	8	12
Bromobenzene	50.0	49.4		ug/L		99	72 - 130	8	23
Bromochloromethane	50.0	51.3		ug/L		103	73 - 137	7	32
Bromodichloromethane	50.0	52.9		ug/L		106	75 - 131	5	13
Bromoform	50.0	46.9		ug/L		94	65 - 140	5	18
Bromomethane	50.0	46.5		ug/L		93	50 - 150	2	50
2-Butanone	250	241		ug/L		96	70 - 144	3	37
sec-Butylbenzene	50.0	54.0		ug/L		108	72 - 140	8	21
n-Butylbenzene	50.0	55.4		ug/L		111	68 - 140	7	11
tert-Butylbenzene	50.0	52.5		ug/L		105	76 - 135	8	20
Carbon disulfide	50.0	48.0		ug/L		96	74 - 137	7	28
Carbon Tetrachloride	50.0	45.6		ug/L		91	71 - 137	8	26
Chlorobenzene	50.0	52.6		ug/L		105	80 - 121	7	11
Chlorodibromomethane	50.0	50.1		ug/L		100	68 - 137	5	16
Chloroethane	50.0	49.8		ug/L		100	50 - 146	4	35
Chloroform	50.0	50.9		ug/L		102	73 - 131	7	32
Chloromethane	50.0	40.6		ug/L		81	30 - 132	6	34
2-Chlorotoluene	50.0	49.0		ug/L		98	74 - 135	9	22
4-Chlorotoluene	50.0	51.7		ug/L		103	74 - 132	8	22
1,2-Dibromo-3-chloropropane	50.0	45.9		ug/L		92	56 - 145	4	21
1,2-Dibromoethane (EDB)	50.0	56.1		ug/L		112	80 - 135	5	10
Dibromomethane	50.0	52.0		ug/L		104	78 - 133	4	11
1,4-Dichlorobenzene	50.0	50.6		ug/L		101	80 - 120	7	10
1,3-Dichlorobenzene	50.0	50.6		ug/L		101	80 - 128	8	18
1,2-Dichlorobenzene	50.0	51.5		ug/L		103	80 - 125	6	11
Dichlorodifluoromethane	50.0	47.6		ug/L		95	30 - 132	1	32
1,1-Dichloroethane	50.0	54.3		ug/L		109	75 - 125	6	34
1,2-Dichloroethane	50.0	52.9		ug/L		106	70 - 134	5	25
cis-1,2-Dichloroethene	50.0	53.9		ug/L		108	71 - 132	7	32
1,1-Dichloroethene	50.0	50.9		ug/L		102	73 - 125	10	31
trans-1,2-Dichloroethene	50.0	52.8		ug/L		106	77 - 125	7	32
1,3-Dichloropropane	50.0	55.9		ug/L		112	76 - 125	5	20
1,2-Dichloropropane	50.0	48.4		ug/L		97	72 - 120	7	11
2,2-Dichloropropane	50.0	59.6		ug/L		119	50 - 150	9	11
cis-1,3-Dichloropropene	50.0	61.8		ug/L		124	70 - 140	7	35
trans-1,3-Dichloropropene	50.0	52.2		ug/L		104	62 - 139	5	26
1,1-Dichloropropene	50.0	52.9		ug/L		106	78 - 126	8	18
Ethylbenzene	50.0	56.0		ug/L		112	78 - 133	7	12
Hexachlorobutadiene	50.0	48.1		ug/L		96	70 - 150	5	21
2-Hexanone	250	320		ug/L		128	60 - 150	2	20
Isopropylbenzene	50.0	62.7	L1	ug/L		125	69 - 120	8	15
p-Isopropyltoluene	50.0	54.2		ug/L		108	72 - 134	7	18
Methyl tert-Butyl Ether	50.0	54.4		ug/L		109	76 - 120	5	32
Methylene Chloride	50.0	49.5		ug/L		99	80 - 133	6	36
4-Methyl-2-pentanone	250	295		ug/L		118	62 - 146	2	35
Naphthalene	50.0	56.8		ug/L		114	71 - 139	0.5	30
n-Propylbenzene	50.0	52.1		ug/L		104	70 - 143	9	23
Styrene	50.0	59.3		ug/L		119	80 - 136	8	29

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2889-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010563 **Prep Batch: 11F2889_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	48.7		ug/L		97	80 - 130	7	11
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/L		99	73 - 131	5	28
Tetrachloroethene	50.0	54.1		ug/L		108	77 - 131	8	16
Toluene	50.0	54.4		ug/L		109	78 - 125	8	35
1,2,3-Trichlorobenzene	50.0	56.5		ug/L		113	71 - 138	2	28
1,2,4-Trichlorobenzene	50.0	52.6		ug/L		105	74 - 136	3	23
1,1,2-Trichloroethane	50.0	55.4		ug/L		111	80 - 123	4	21
1,1,1-Trichloroethane	50.0	52.6		ug/L		105	75 - 137	8	29
Trichloroethene	50.0	50.6		ug/L		101	74 - 139	7	11
Trichlorofluoromethane	50.0	47.0		ug/L		94	60 - 133	5	33
1,2,3-Trichloropropane	50.0	51.5		ug/L		103	64 - 127	6	25
1,3,5-Trimethylbenzene	50.0	53.0		ug/L		106	75 - 134	9	21
1,2,4-Trimethylbenzene	50.0	53.2		ug/L		106	77 - 134	8	20
Vinyl chloride	50.0	46.4		ug/L		93	60 - 122	7	32
Xylenes, total	150	176		ug/L		117	78 - 134	7	18

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*97*		*63 - 140*
Dibromofluoromethane	*99*		*73 - 131*
Toluene-d8	*104*		*80 - 120*
4-Bromofluorobenzene	*94*		*79 - 125*

Lab Sample ID: 11F2889-MS1 **Client Sample ID: D Baler**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010563 **Prep Batch: 11F2889_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	ND		12500	12100		ug/L		97	56 - 150
Benzene	ND		2500	2690		ug/L		108	65 - 151
Bromobenzene	ND	RL1	2500	2570		ug/L		103	69 - 142
Bromochloromethane	ND		2500	2720		ug/L		109	64 - 154
Bromodichloromethane	ND		2500	2740		ug/L		110	75 - 138
Bromoform	ND		2500	2560		ug/L		102	55 - 153
Bromomethane	ND		2500	1910		ug/L		77	13 - 176
2-Butanone	ND		12500	11200		ug/L		89	45 - 164
sec-Butylbenzene	ND	RL1	2500	2580		ug/L		103	68 - 159
n-Butylbenzene	ND	RL1	2500	2430		ug/L		97	67 - 151
tert-Butylbenzene	ND	RL1	2500	2690		ug/L		108	73 - 153
Carbon disulfide	ND		2500	2170		ug/L		87	33 - 187
Carbon Tetrachloride	ND		2500	2300		ug/L		92	64 - 157
Chlorobenzene	ND		2500	2800		ug/L		112	78 - 136
Chlorodibromomethane	ND		2500	2680		ug/L		107	64 - 145
Chloroethane	ND		2500	2130		ug/L		85	48 - 159
Chloroform	ND		2500	2600		ug/L		104	72 - 145
Chloromethane	ND		2500	1960		ug/L		78	10 - 194
2-Chlorotoluene	ND	RL1	2500	2580		ug/L		103	66 - 155
4-Chlorotoluene	ND	RL1	2500	2610		ug/L		105	69 - 149
1,2-Dibromo-3-chloropropane	ND	RL1	2500	2540		ug/L		102	49 - 162
1,2-Dibromoethane (EDB)	ND		2500	2910		ug/L		116	70 - 152

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2889-MS1 **Client Sample ID: D Baler**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010563 **Prep Batch: 11F2889_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Dibromomethane	ND		2500	2610		ug/L		104	75 - 141
1,4-Dichlorobenzene	ND	RL1	2500	2600		ug/L		104	75 - 135
1,3-Dichlorobenzene	ND	RL1	2500	2640		ug/L		106	72 - 146
1,2-Dichlorobenzene	ND	RL1	2500	2680		ug/L		107	80 - 136
Dichlorodifluoromethane	ND		2500	1690		ug/L		67	23 - 159
1,1-Dichloroethane	ND		2500	2690		ug/L		108	64 - 154
1,2-Dichloroethane	ND		2500	2470		ug/L		99	72 - 137
cis-1,2-Dichloroethene	ND		2500	2610		ug/L		104	57 - 154
1,1-Dichloroethene	ND		2500	2550		ug/L		102	34 - 151
trans-1,2-Dichloroethene	ND		2500	2520		ug/L		101	57 - 157
1,3-Dichloropropane	ND		2500	2770		ug/L		111	71 - 137
1,2-Dichloropropane	ND		2500	2460		ug/L		99	71 - 139
2,2-Dichloropropane	ND		2500	2640		ug/L		106	10 - 198
cis-1,3-Dichloropropene	ND		2500	3100		ug/L		124	56 - 156
trans-1,3-Dichloropropene	ND		2500	2610		ug/L		105	47 - 157
1,1-Dichloropropene	ND		2500	2620		ug/L		105	70 - 155
Ethylbenzene	ND		2500	2860		ug/L		114	68 - 157
Hexachlorobutadiene	ND	RL1	2500	1830		ug/L		73	47 - 173
2-Hexanone	ND		12500	15200		ug/L		122	57 - 154
Isopropylbenzene	ND		2500	3210		ug/L		129	69 - 139
p-Isopropyltoluene	ND	RL1	2500	2580		ug/L		103	69 - 151
Methyl tert-Butyl Ether	ND		2500	2750		ug/L		110	56 - 152
Methylene Chloride	ND		2500	2510		ug/L		100	71 - 136
4-Methyl-2-pentanone	ND		12500	14200		ug/L		114	62 - 159
Naphthalene	ND	RL1	2500	2470		ug/L		99	56 - 161
n-Propylbenzene	ND	RL1	2500	2610		ug/L		104	61 - 167
Styrene	ND		2500	3000		ug/L		120	69 - 150
1,1,1,2-Tetrachloroethane	ND		2500	2640		ug/L		106	80 - 140
1,1,2,2-Tetrachloroethane	ND	RL1	2500	2600		ug/L		104	76 - 141
Tetrachloroethene	ND		2500	2770		ug/L		111	63 - 155
Toluene	ND		2500	6860	M7 CF7	ug/L		274	61 - 153
1,2,3-Trichlorobenzene	ND	RL1	2500	2420		ug/L		97	57 - 155
1,2,4-Trichlorobenzene	ND	RL1	2500	2670		ug/L		107	64 - 147
1,1,2-Trichloroethane	ND		2500	2820		ug/L		113	74 - 138
1,1,1-Trichloroethane	ND		2500	2710		ug/L		108	78 - 153
Trichloroethene	ND		2500	2780		ug/L		111	74 - 139
Trichlorofluoromethane	ND		2500	2050		ug/L		82	53 - 149
1,2,3-Trichloropropane	ND	RL1	2500	2560		ug/L		102	49 - 148
1,3,5-Trimethylbenzene	ND	RL1	2500	2710		ug/L		108	67 - 151
1,2,4-Trimethylbenzene	ND	RL1	2500	2710		ug/L		108	69 - 150
Vinyl chloride	ND		2500	2240		ug/L		90	53 - 137
Xylenes, total	ND		7500	8680		ug/L		116	68 - 158

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*89*		*63 - 140*
Dibromofluoromethane	*97*		*73 - 131*
Toluene-d8	*102*		*80 - 120*
4-Bromofluorobenzene	*98*		*79 - 125*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2889-MSD1 **Client Sample ID: D Baler**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010563 **Prep Batch: 11F2889_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	ND		12500	13200		ug/L		106	56 - 150	9	31
Benzene	ND		2500	2760		ug/L		110	65 - 151	2	12
Bromobenzene	ND	RL1	2500	2590		ug/L		104	69 - 142	0.7	23
Bromochloromethane	ND		2500	2760		ug/L		110	64 - 154	1	32
Bromodichloromethane	ND		2500	2810		ug/L		112	75 - 138	2	13
Bromoform	ND		2500	2580		ug/L		103	55 - 153	0.9	18
Bromomethane	ND		2500	1960		ug/L		78	13 - 176	2	50
2-Butanone	ND		12500	11300		ug/L		90	45 - 164	1	37
sec-Butylbenzene	ND	RL1	2500	2700		ug/L		108	68 - 159	5	21
n-Butylbenzene	ND	RL1	2500	2580		ug/L		103	67 - 151	6	11
tert-Butylbenzene	ND	RL1	2500	2790		ug/L		112	73 - 153	4	20
Carbon disulfide	ND		2500	2250		ug/L		90	33 - 187	4	28
Carbon Tetrachloride	ND		2500	2450		ug/L		98	64 - 157	6	26
Chlorobenzene	ND		2500	2880		ug/L		115	78 - 136	2	11
Chlorodibromomethane	ND		2500	2730		ug/L		109	64 - 145	2	16
Chloroethane	ND		2500	2210		ug/L		88	48 - 159	4	35
Chloroform	ND		2500	2670		ug/L		107	72 - 145	3	32
Chloromethane	ND		2500	1920		ug/L		77	10 - 194	2	34
2-Chlorotoluene	ND	RL1	2500	2600		ug/L		104	66 - 155	0.9	22
4-Chlorotoluene	ND	RL1	2500	2680		ug/L		107	69 - 149	2	22
1,2-Dibromo-3-chloropropane	ND	RL1	2500	2550		ug/L		102	49 - 162	0.3	21
1,2-Dibromoethane (EDB)	ND		2500	2960		ug/L		118	70 - 152	2	10
Dibromomethane	ND		2500	2650		ug/L		106	75 - 141	2	11
1,4-Dichlorobenzene	ND	RL1	2500	2660		ug/L		106	75 - 135	2	10
1,3-Dichlorobenzene	ND	RL1	2500	2710		ug/L		108	72 - 146	3	18
1,2-Dichlorobenzene	ND	RL1	2500	2780		ug/L		111	80 - 136	4	11
Dichlorodifluoromethane	ND		2500	1900		ug/L		76	23 - 159	12	32
1,1-Dichloroethane	ND		2500	2740		ug/L		109	64 - 154	2	34
1,2-Dichloroethane	ND		2500	2570		ug/L		103	72 - 137	4	25
cis-1,2-Dichloroethene	ND		2500	2670		ug/L		107	57 - 154	2	32
1,1-Dichloroethene	ND		2500	2680		ug/L		107	34 - 151	5	31
trans-1,2-Dichloroethene	ND		2500	2590		ug/L		104	57 - 157	3	32
1,3-Dichloropropane	ND		2500	2820		ug/L		113	71 - 137	2	20
1,2-Dichloropropane	ND		2500	2530		ug/L		101	71 - 139	3	11
2,2-Dichloropropane	ND		2500	2650		ug/L		106	10 - 198	0.1	11
cis-1,3-Dichloropropene	ND		2500	3160		ug/L		126	56 - 156	2	35
trans-1,3-Dichloropropene	ND		2500	2680		ug/L		107	47 - 157	2	26
1,1-Dichloropropene	ND		2500	2750		ug/L		110	70 - 155	5	18
Ethylbenzene	ND		2500	2960		ug/L		118	68 - 157	3	12
Hexachlorobutadiene	ND	RL1	2500	2120		ug/L		85	47 - 173	15	21
2-Hexanone	ND		12500	15600		ug/L		125	57 - 154	2	20
Isopropylbenzene	ND		2500	3330		ug/L		133	69 - 139	4	15
p-Isopropyltoluene	ND	RL1	2500	2720		ug/L		109	69 - 151	5	18
Methyl tert-Butyl Ether	ND		2500	2800		ug/L		112	56 - 152	2	32
Methylene Chloride	ND		2500	2480		ug/L		99	71 - 136	1	36
4-Methyl-2-pentanone	ND		12500	14500		ug/L		116	62 - 159	2	35
Naphthalene	ND	RL1	2500	2890		ug/L		116	56 - 161	16	30
n-Propylbenzene	ND	RL1	2500	2690		ug/L		108	61 - 167	3	23
Styrene	ND		2500	3100		ug/L		124	69 - 150	3	29

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F2889-MSD1 **Client Sample ID: D Baler**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010563 **Prep Batch: 11F2889_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		2500	2700		ug/L		108	80 - 140	2	11
1,1,2,2-Tetrachloroethane	ND	RL1	2500	2590		ug/L		103	76 - 141	0.8	28
Tetrachloroethene	ND		2500	2900		ug/L		116	63 - 155	5	16
Toluene	ND		2500	3670	R2	ug/L		147	61 - 153	61	35
1,2,3-Trichlorobenzene	ND	RL1	2500	2590		ug/L		103	57 - 155	7	28
1,2,4-Trichlorobenzene	ND	RL1	2500	2820		ug/L		113	64 - 147	5	23
1,1,2-Trichloroethane	ND		2500	2870		ug/L		115	74 - 138	2	21
1,1,1-Trichloroethane	ND		2500	2850		ug/L		114	78 - 153	5	29
Trichloroethene	ND		2500	2860		ug/L		114	74 - 139	3	11
Trichlorofluoromethane	ND		2500	2240		ug/L		89	53 - 149	9	33
1,2,3-Trichloropropane	ND	RL1	2500	2590		ug/L		104	49 - 148	1	25
1,3,5-Trimethylbenzene	ND	RL1	2500	2790		ug/L		111	67 - 151	3	21
1,2,4-Trimethylbenzene	ND	RL1	2500	2800		ug/L		112	69 - 150	3	20
Vinyl chloride	ND		2500	2280		ug/L		91	53 - 137	2	32
Xylenes, total	ND		7500	8980		ug/L		120	68 - 158	3	18

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*87*		*63 - 140*
Dibromofluoromethane	*96*		*73 - 131*
Toluene-d8	*103*		*80 - 120*
4-Bromofluorobenzene	*96*		*79 - 125*

Lab Sample ID: 11F3984-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010570 **Prep Batch: 11F3984_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Benzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Bromobenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Bromochloromethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Bromodichloromethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Bromoform	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Bromomethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
2-Butanone	ND		50.0		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
sec-Butylbenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
n-Butylbenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
tert-Butylbenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Carbon disulfide	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Carbon Tetrachloride	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Chlorobenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Chlorodibromomethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Chloroethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Chloroform	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Chloromethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
2-Chlorotoluene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
4-Chlorotoluene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3984-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010570 **Prep Batch: 11F3984_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,1-Dichloroethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,2-Dichloroethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,1-Dichloroethene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,3-Dichloropropane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,2-Dichloropropane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
2,2-Dichloropropane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,1-Dichloropropene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Ethylbenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Hexachlorobutadiene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
2-Hexanone	ND		50.0		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Isopropylbenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
p-Isopropyltoluene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Methylene Chloride	ND		5.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Naphthalene	ND		5.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
n-Propylbenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Styrene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Tetrachloroethene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Toluene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Trichloroethene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Trichlorofluoromethane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Vinyl chloride	ND		1.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00
Xylenes, total	ND		3.00		ug/L		06/15/11 17:59	06/15/11 21:56	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*103*		*63 - 140*	*06/15/11 17:59*	*06/15/11 21:56*	*1.00*
Dibromofluoromethane	*95*		*73 - 131*	*06/15/11 17:59*	*06/15/11 21:56*	*1.00*
Toluene-d8	*105*		*80 - 120*	*06/15/11 17:59*	*06/15/11 21:56*	*1.00*
4-Bromofluorobenzene	*108*		*79 - 125*	*06/15/11 17:59*	*06/15/11 21:56*	*1.00*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3984-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010570 **Prep Batch: 11F3984_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	316		ug/L		127	56 - 150
Benzene	50.0	54.7		ug/L		109	80 - 121
Bromobenzene	50.0	52.6		ug/L		105	72 - 130
Bromochloromethane	50.0	50.7		ug/L		101	73 - 137
Bromodichloromethane	50.0	55.5		ug/L		111	75 - 131
Bromoform	50.0	48.8		ug/L		98	65 - 140
Bromomethane	50.0	48.5		ug/L		97	50 - 150
2-Butanone	250	243		ug/L		97	70 - 144
sec-Butylbenzene	50.0	56.8		ug/L		114	72 - 140
n-Butylbenzene	50.0	57.3		ug/L		115	68 - 140
tert-Butylbenzene	50.0	55.2		ug/L		110	76 - 135
Carbon disulfide	50.0	49.8		ug/L		100	74 - 137
Carbon Tetrachloride	50.0	47.4		ug/L		95	71 - 137
Chlorobenzene	50.0	54.2		ug/L		108	80 - 121
Chlorodibromomethane	50.0	52.0		ug/L		104	68 - 137
Chloroethane	50.0	50.8		ug/L		102	50 - 146
Chloroform	50.0	53.6		ug/L		107	73 - 131
Chloromethane	50.0	44.0		ug/L		88	30 - 132
2-Chlorotoluene	50.0	52.6		ug/L		105	74 - 135
4-Chlorotoluene	50.0	54.8		ug/L		110	74 - 132
1,2-Dibromo-3-chloropropane	50.0	47.2		ug/L		94	56 - 145
1,2-Dibromoethane (EDB)	50.0	57.8		ug/L		116	80 - 135
Dibromomethane	50.0	52.1		ug/L		104	78 - 133
1,4-Dichlorobenzene	50.0	52.0		ug/L		104	80 - 120
1,3-Dichlorobenzene	50.0	52.6		ug/L		105	80 - 128
1,2-Dichlorobenzene	50.0	53.2		ug/L		106	80 - 125
Dichlorodifluoromethane	50.0	44.6		ug/L		89	30 - 132
1,1-Dichloroethane	50.0	56.4		ug/L		113	75 - 125
1,2-Dichloroethane	50.0	54.7		ug/L		109	70 - 134
cis-1,2-Dichloroethene	50.0	56.5		ug/L		113	71 - 132
1,1-Dichloroethene	50.0	53.8		ug/L		108	73 - 125
trans-1,2-Dichloroethene	50.0	55.0		ug/L		110	77 - 125
1,3-Dichloropropane	50.0	58.8		ug/L		118	76 - 125
1,2-Dichloropropane	50.0	51.0		ug/L		102	72 - 120
2,2-Dichloropropane	50.0	60.9		ug/L		122	50 - 150
cis-1,3-Dichloropropene	50.0	63.7		ug/L		127	70 - 140
trans-1,3-Dichloropropene	50.0	53.4		ug/L		107	62 - 139
1,1-Dichloropropene	50.0	55.0		ug/L		110	78 - 126
Ethylbenzene	50.0	58.7		ug/L		117	78 - 133
Hexachlorobutadiene	50.0	48.6		ug/L		97	70 - 150
2-Hexanone	250	326		ug/L		130	60 - 150
Isopropylbenzene	50.0	66.0	L1	ug/L		132	69 - 120
p-Isopropyltoluene	50.0	56.0		ug/L		112	72 - 134
Methyl tert-Butyl Ether	50.0	53.4		ug/L		107	76 - 120
Methylene Chloride	50.0	49.6		ug/L		99	80 - 133
4-Methyl-2-pentanone	250	299		ug/L		119	62 - 146
Naphthalene	50.0	54.9		ug/L		110	71 - 139
n-Propylbenzene	50.0	56.0		ug/L		112	70 - 143
Styrene	50.0	62.1		ug/L		124	80 - 136

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3984-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010570 **Prep Batch: 11F3984_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	50.4		ug/L		101	80 - 130
1,1,2,2-Tetrachloroethane	50.0	51.8		ug/L		104	73 - 131
Tetrachloroethene	50.0	55.5		ug/L		111	77 - 131
Toluene	50.0	56.8		ug/L		114	78 - 125
1,2,3-Trichlorobenzene	50.0	49.4		ug/L		99	71 - 138
1,2,4-Trichlorobenzene	50.0	51.5		ug/L		103	74 - 136
1,1,2-Trichloroethane	50.0	57.5		ug/L		115	80 - 123
1,1,1-Trichloroethane	50.0	54.3		ug/L		109	75 - 137
Trichloroethene	50.0	51.5		ug/L		103	74 - 139
Trichlorofluoromethane	50.0	47.1		ug/L		94	60 - 133
1,2,3-Trichloropropane	50.0	54.7		ug/L		109	64 - 127
1,3,5-Trimethylbenzene	50.0	56.2		ug/L		112	75 - 134
1,2,4-Trimethylbenzene	50.0	55.3		ug/L		111	77 - 134
Vinyl chloride	50.0	48.0		ug/L		96	60 - 122
Xylenes, total	150	186		ug/L		124	78 - 134

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*95*		*63 - 140*
Dibromofluoromethane	*100*		*73 - 131*
Toluene-d8	*104*		*80 - 120*
4-Bromofluorobenzene	*98*		*79 - 125*

Lab Sample ID: 11F3984-MS1 **Client Sample ID: Matrix Spike**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010570 **Prep Batch: 11F3984_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	ND		1250000	1310000		ug/L		105	56 - 150
Benzene	ND		250000	295000		ug/L		118	65 - 151
Bromobenzene	ND		250000	299000		ug/L		120	69 - 142
Bromochloromethane	ND		250000	288000		ug/L		115	64 - 154
Bromodichloromethane	ND		250000	305000		ug/L		122	75 - 138
Bromoform	ND		250000	247000		ug/L		99	55 - 153
Bromomethane	ND		250000	216000		ug/L		86	13 - 176
2-Butanone	ND		1250000	1200000		ug/L		96	45 - 164
sec-Butylbenzene	ND		250000	285000		ug/L		114	68 - 159
n-Butylbenzene	ND		250000	203000		ug/L		81	67 - 151
tert-Butylbenzene	ND		250000	291000		ug/L		117	73 - 153
Carbon disulfide	ND		250000	257000		ug/L		103	33 - 187
Carbon Tetrachloride	ND		250000	258000		ug/L		103	64 - 157
Chlorobenzene	ND		250000	297000		ug/L		119	78 - 136
Chlorodibromomethane	ND		250000	281000		ug/L		113	64 - 145
Chloroethane	ND		250000	263000		ug/L		105	48 - 159
Chloroform	ND		250000	292000		ug/L		117	72 - 145
Chloromethane	ND		250000	218000		ug/L		87	10 - 194
2-Chlorotoluene	ND		250000	292000		ug/L		117	66 - 155
4-Chlorotoluene	ND		250000	297000		ug/L		119	69 - 149
1,2-Dibromo-3-chloropropane	ND		250000	122000		ug/L		49	49 - 162
1,2-Dibromoethane (EDB)	ND		250000	302000		ug/L		121	70 - 152

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3984-MS1 **Client Sample ID: Matrix Spike**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010570 **Prep Batch: 11F3984_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Dibromomethane	ND		250000	283000		ug/L		113	75 - 141
1,4-Dichlorobenzene	ND		250000	220000		ug/L		88	75 - 135
1,3-Dichlorobenzene	ND		250000	229000		ug/L		92	72 - 146
1,2-Dichlorobenzene	ND		250000	196000	M8	ug/L		78	80 - 136
Dichlorodifluoromethane	ND		250000	201000		ug/L		81	23 - 159
1,1-Dichloroethane	ND		250000	315000		ug/L		126	64 - 154
1,2-Dichloroethane	ND		250000	291000		ug/L		116	72 - 137
cis-1,2-Dichloroethene	ND		250000	303000		ug/L		121	57 - 154
1,1-Dichloroethene	ND		250000	297000		ug/L		119	34 - 151
trans-1,2-Dichloroethene	ND		250000	302000		ug/L		121	57 - 157
1,3-Dichloropropane	ND		250000	313000		ug/L		125	71 - 137
1,2-Dichloropropane	ND		250000	278000		ug/L		111	71 - 139
2,2-Dichloropropane	ND		250000	301000		ug/L		120	10 - 198
cis-1,3-Dichloropropene	ND		250000	341000		ug/L		136	56 - 156
trans-1,3-Dichloropropene	ND		250000	283000		ug/L		113	47 - 157
1,1-Dichloropropene	ND		250000	302000		ug/L		121	70 - 155
Ethylbenzene	ND		250000	304000		ug/L		121	68 - 157
Hexachlorobutadiene	ND		250000	31500	M8	ug/L		13	47 - 173
2-Hexanone	ND		1250000	1680000		ug/L		135	57 - 154
Isopropylbenzene	ND		250000	323000		ug/L		129	69 - 139
p-Isopropyltoluene	ND		250000	238000		ug/L		95	69 - 151
Methyl tert-Butyl Ether	ND		250000	306000		ug/L		122	56 - 152
Methylene Chloride	ND		250000	281000		ug/L		112	71 - 136
4-Methyl-2-pentanone	ND		1250000	1620000		ug/L		129	62 - 159
Naphthalene	ND		250000	345000		ug/L		138	56 - 161
n-Propylbenzene	ND		250000	307000		ug/L		123	61 - 167
Styrene	ND		250000	319000		ug/L		128	69 - 150
1,1,1,2-Tetrachloroethane	ND		250000	278000		ug/L		111	80 - 140
1,1,2,2-Tetrachloroethane	ND		250000	295000		ug/L		118	76 - 141
Tetrachloroethene	ND		250000	284000		ug/L		114	63 - 155
Toluene	236000		250000	526000		ug/L		116	61 - 153
1,2,3-Trichlorobenzene	ND		250000	21400	M8	ug/L		9	57 - 155
1,2,4-Trichlorobenzene	ND		250000	27200	M8	ug/L		11	64 - 147
1,1,2-Trichloroethane	ND		250000	306000		ug/L		122	74 - 138
1,1,1-Trichloroethane	ND		250000	304000		ug/L		122	78 - 153
Trichloroethene	ND		250000	290000		ug/L		116	74 - 139
Trichlorofluoromethane	ND		250000	252000		ug/L		101	53 - 149
1,2,3-Trichloropropane	ND		250000	306000		ug/L		123	49 - 148
1,3,5-Trimethylbenzene	ND		250000	286000		ug/L		115	67 - 151
1,2,4-Trimethylbenzene	ND		250000	264000		ug/L		106	69 - 150
Vinyl chloride	ND		250000	256000		ug/L		102	53 - 137
Xylenes, total	ND		750000	923000		ug/L		123	68 - 158

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*96*		*63 - 140*
Dibromofluoromethane	*100*		*73 - 131*
Toluene-d8	*104*		*80 - 120*
4-Bromofluorobenzene	*111*		*79 - 125*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3984-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010570 **Prep Batch: 11F3984_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	ND		1250000	1390000		ug/L		111	56 - 150	6	31
Benzene	ND		250000	286000		ug/L		115	65 - 151	3	12
Bromobenzene	ND		250000	290000		ug/L		116	69 - 142	3	23
Bromochloromethane	ND		250000	277000		ug/L		111	64 - 154	4	32
Bromodichloromethane	ND		250000	291000		ug/L		116	75 - 138	5	13
Bromoform	ND		250000	240000		ug/L		96	55 - 153	3	18
Bromomethane	ND		250000	234000		ug/L		94	13 - 176	8	50
2-Butanone	ND		1250000	1170000		ug/L		94	45 - 164	2	37
sec-Butylbenzene	ND		250000	290000		ug/L		116	68 - 159	2	21
n-Butylbenzene	ND		250000	254000	R2	ug/L		101	67 - 151	22	11
tert-Butylbenzene	ND		250000	289000		ug/L		116	73 - 153	0.7	20
Carbon disulfide	ND		250000	249000		ug/L		100	33 - 187	3	28
Carbon Tetrachloride	ND		250000	255000		ug/L		102	64 - 157	1	26
Chlorobenzene	ND		250000	289000		ug/L		116	78 - 136	3	11
Chlorodibromomethane	ND		250000	274000		ug/L		109	64 - 145	3	16
Chloroethane	ND		250000	262000		ug/L		105	48 - 159	0.5	35
Chloroform	ND		250000	284000		ug/L		114	72 - 145	3	32
Chloromethane	ND		250000	210000		ug/L		84	10 - 194	4	34
2-Chlorotoluene	ND		250000	282000		ug/L		113	66 - 155	3	22
4-Chlorotoluene	ND		250000	288000		ug/L		115	69 - 149	3	22
1,2-Dibromo-3-chloropropane	ND		250000	225000	R2	ug/L		90	49 - 162	59	21
1,2-Dibromoethane (EDB)	ND		250000	297000		ug/L		119	70 - 152	2	10
Dibromomethane	ND		250000	274000		ug/L		110	75 - 141	3	11
1,4-Dichlorobenzene	ND		250000	241000		ug/L		96	75 - 135	9	10
1,3-Dichlorobenzene	ND		250000	245000		ug/L		98	72 - 146	7	18
1,2-Dichlorobenzene	ND		250000	236000	R2	ug/L		94	80 - 136	19	11
Dichlorodifluoromethane	ND		250000	210000		ug/L		84	23 - 159	4	32
1,1-Dichloroethane	ND		250000	301000		ug/L		121	64 - 154	4	34
1,2-Dichloroethane	ND		250000	281000		ug/L		112	72 - 137	3	25
cis-1,2-Dichloroethene	ND		250000	291000		ug/L		116	57 - 154	4	32
1,1-Dichloroethene	ND		250000	284000		ug/L		113	34 - 151	5	31
trans-1,2-Dichloroethene	ND		250000	288000		ug/L		115	57 - 157	5	32
1,3-Dichloropropane	ND		250000	304000		ug/L		122	71 - 137	3	20
1,2-Dichloropropane	ND		250000	268000		ug/L		107	71 - 139	4	11
2,2-Dichloropropane	ND		250000	290000		ug/L		116	10 - 198	4	11
cis-1,3-Dichloropropene	ND		250000	336000		ug/L		134	56 - 156	2	35
trans-1,3-Dichloropropene	ND		250000	279000		ug/L		111	47 - 157	1	26
1,1-Dichloropropene	ND		250000	293000		ug/L		117	70 - 155	3	18
Ethylbenzene	ND		250000	298000		ug/L		119	68 - 157	2	12
Hexachlorobutadiene	ND		250000	103000	R2 M8	ug/L		41	47 - 173	106	21
2-Hexanone	ND		1250000	1620000		ug/L		130	57 - 154	4	20
Isopropylbenzene	ND		250000	312000		ug/L		125	69 - 139	3	15
p-Isopropyltoluene	ND		250000	267000		ug/L		107	69 - 151	12	18
Methyl tert-Butyl Ether	ND		250000	291000		ug/L		116	56 - 152	5	32
Methylene Chloride	ND		250000	269000		ug/L		107	71 - 136	5	36
4-Methyl-2-pentanone	ND		1250000	1570000		ug/L		126	62 - 159	3	35
Naphthalene	ND		250000	303000		ug/L		121	56 - 161	13	30
n-Propylbenzene	ND		250000	296000		ug/L		118	61 - 167	4	23
Styrene	ND		250000	310000		ug/L		124	69 - 150	3	29

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3984-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010570 **Prep Batch: 11F3984_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		250000	271000		ug/L		108	80 - 140	3	11
1,1,2,2-Tetrachloroethane	ND		250000	294000		ug/L		118	76 - 141	0.1	28
Tetrachloroethene	ND		250000	281000		ug/L		112	63 - 155	1	16
Toluene	236000		250000	564000		ug/L		131	61 - 153	7	35
1,2,3-Trichlorobenzene	ND		250000	108000	M8 R2	ug/L		43	57 - 155	134	28
1,2,4-Trichlorobenzene	ND		250000	117000	R2 M8	ug/L		47	64 - 147	125	23
1,1,2-Trichloroethane	ND		250000	301000		ug/L		120	74 - 138	2	21
1,1,1-Trichloroethane	ND		250000	298000		ug/L		119	78 - 153	2	29
Trichloroethene	ND		250000	278000		ug/L		111	74 - 139	4	11
Trichlorofluoromethane	ND		250000	251000		ug/L		100	53 - 149	0.4	33
1,2,3-Trichloropropane	ND		250000	301000		ug/L		120	49 - 148	2	25
1,3,5-Trimethylbenzene	ND		250000	286000		ug/L		114	67 - 151	0.1	21
1,2,4-Trimethylbenzene	ND		250000	274000		ug/L		110	69 - 150	4	20
Vinyl chloride	ND		250000	245000		ug/L		98	53 - 137	5	32
Xylenes, total	ND		750000	898000		ug/L		120	68 - 158	3	18

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*96*		*63 - 140*
Dibromofluoromethane	*100*		*73 - 131*
Toluene-d8	*105*		*80 - 120*
4-Bromofluorobenzene	*109*		*79 - 125*

Lab Sample ID: 11F4282-BLK1 **Client Sample ID: Method Blank**
Matrix: Oil **Prep Type: Total**
Analysis Batch: U010652 **Prep Batch: 11F4282_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.50		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Benzene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Bromobenzene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Bromochloromethane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Bromodichloromethane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Bromoform	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Bromomethane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
2-Butanone	ND		2.50		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
sec-Butylbenzene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
n-Butylbenzene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
tert-Butylbenzene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Carbon disulfide	ND		0.250		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Carbon Tetrachloride	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Chlorobenzene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Chlorodibromomethane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Chloroethane	ND		0.250		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Chloroform	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Chloromethane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
2-Chlorotoluene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
4-Chlorotoluene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,2-Dibromo-3-chloropropane	ND		0.250		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,2-Dibromoethane (EDB)	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4282-BLK1 **Client Sample ID: Method Blank**
Matrix: Oil **Prep Type: Total**
Analysis Batch: U010652 **Prep Batch: 11F4282_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,4-Dichlorobenzene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,3-Dichlorobenzene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,2-Dichlorobenzene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Dichlorodifluoromethane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,1-Dichloroethane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,2-Dichloroethane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
cis-1,2-Dichloroethene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,1-Dichloroethene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
trans-1,2-Dichloroethene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,3-Dichloropropane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,2-Dichloropropane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
2,2-Dichloropropane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
cis-1,3-Dichloropropene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
trans-1,3-Dichloropropene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,1-Dichloropropene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Ethylbenzene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Hexachlorobutadiene	ND		0.250		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
2-Hexanone	ND		2.50		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Isopropylbenzene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
p-Isopropyltoluene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Methyl tert-Butyl Ether	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Methylene Chloride	ND		0.500		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
4-Methyl-2-pentanone	ND		2.50		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Naphthalene	ND		0.250		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
n-Propylbenzene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Styrene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,1,1,2-Tetrachloroethane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,1,2,2-Tetrachloroethane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Tetrachloroethene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Toluene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,2,3-Trichlorobenzene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,2,4-Trichlorobenzene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,1,2-Trichloroethane	ND		0.250		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,1,1-Trichloroethane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Trichloroethene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Trichlorofluoromethane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,2,3-Trichloropropane	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,3,5-Trimethylbenzene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
1,2,4-Trimethylbenzene	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Vinyl chloride	ND		0.100		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0
Xylenes, total	ND		0.250		mg/kg		06/14/11 17:55	06/14/11 21:09	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*103*		*41 - 150*	*06/14/11 17:55*	*06/14/11 21:09*	*50.0*
Dibromofluoromethane	*95*		*55 - 139*	*06/14/11 17:55*	*06/14/11 21:09*	*50.0*
Toluene-d8	*106*		*57 - 148*	*06/14/11 17:55*	*06/14/11 21:09*	*50.0*
4-Bromofluorobenzene	*109*		*58 - 150*	*06/14/11 17:55*	*06/14/11 21:09*	*50.0*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4282-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Oil **Prep Type: Total**
Analysis Batch: U010652 **Prep Batch: 11F4282_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	300		ug/kg		120	49 - 150
Benzene	50.0	56.7		ug/kg		113	76 - 130
Bromobenzene	50.0	53.6		ug/kg		107	80 - 128
Bromochloromethane	50.0	55.2		ug/kg		110	70 - 135
Bromodichloromethane	50.0	55.7		ug/kg		111	78 - 135
Bromoform	50.0	49.3		ug/kg		99	67 - 143
Bromomethane	50.0	47.6		ug/kg		95	58 - 150
2-Butanone	250	248		ug/kg		99	61 - 143
sec-Butylbenzene	50.0	58.3		ug/kg		117	80 - 134
n-Butylbenzene	50.0	59.1		ug/kg		118	71 - 141
tert-Butylbenzene	50.0	57.0		ug/kg		114	79 - 132
Carbon disulfide	50.0	51.4		ug/kg		103	70 - 134
Carbon Tetrachloride	50.0	49.2		ug/kg		98	75 - 137
Chlorobenzene	50.0	56.3		ug/kg		113	80 - 121
Chlorodibromomethane	50.0	52.8		ug/kg		106	77 - 130
Chloroethane	50.0	51.8		ug/kg		104	62 - 149
Chloroform	50.0	54.6		ug/kg		109	75 - 130
Chloromethane	50.0	43.0		ug/kg		86	35 - 130
2-Chlorotoluene	50.0	53.6		ug/kg		107	80 - 131
4-Chlorotoluene	50.0	56.1		ug/kg		112	80 - 129
1,2-Dibromo-3-chloropropane	50.0	47.9		ug/kg		96	62 - 142
1,2-Dibromoethane (EDB)	50.0	59.0		ug/kg		118	81 - 130
Dibromomethane	50.0	54.0		ug/kg		108	77 - 133
1,4-Dichlorobenzene	50.0	54.5		ug/kg		109	75 - 128
1,3-Dichlorobenzene	50.0	54.6		ug/kg		109	79 - 128
1,2-Dichlorobenzene	50.0	54.6		ug/kg		109	80 - 130
Dichlorodifluoromethane	50.0	48.1		ug/kg		96	11 - 129
1,1-Dichloroethane	50.0	57.6		ug/kg		115	68 - 150
1,2-Dichloroethane	50.0	55.8		ug/kg		112	72 - 132
cis-1,2-Dichloroethene	50.0	58.0		ug/kg		116	77 - 132
1,1-Dichloroethene	50.0	56.4		ug/kg		113	75 - 133
trans-1,2-Dichloroethene	50.0	56.8		ug/kg		114	79 - 133
1,3-Dichloropropane	50.0	58.9		ug/kg		118	80 - 125
1,2-Dichloropropane	50.0	51.6		ug/kg		103	75 - 124
2,2-Dichloropropane	50.0	65.2		ug/kg		130	59 - 144
cis-1,3-Dichloropropene	50.0	66.1		ug/kg		132	80 - 137
trans-1,3-Dichloropropene	50.0	55.1		ug/kg		110	75 - 133
1,1-Dichloropropene	50.0	57.1		ug/kg		114	76 - 133
Ethylbenzene	50.0	60.0		ug/kg		120	80 - 128
Hexachlorobutadiene	50.0	50.4		ug/kg		101	60 - 150
2-Hexanone	250	327		ug/kg		131	63 - 149
Isopropylbenzene	50.0	68.1	L1	ug/kg		136	74 - 131
p-Isopropyltoluene	50.0	58.4		ug/kg		117	75 - 133
Methyl tert-Butyl Ether	50.0	57.0		ug/kg		114	67 - 130
Methylene Chloride	50.0	52.6		ug/kg		105	65 - 144
4-Methyl-2-pentanone	250	303		ug/kg		121	64 - 142
Naphthalene	50.0	57.1		ug/kg		114	63 - 144
n-Propylbenzene	50.0	56.8		ug/kg		114	80 - 131
Styrene	50.0	64.1		ug/kg		128	80 - 144

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4282-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Oil **Prep Type: Total**
Analysis Batch: U010652 **Prep Batch: 11F4282_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.2		ug/kg		104	80 - 129
1,1,2,2-Tetrachloroethane	50.0	52.2		ug/kg		104	73 - 139
Tetrachloroethene	50.0	58.6		ug/kg		117	76 - 128
Toluene	50.0	58.7		ug/kg		117	80 - 125
1,2,3-Trichlorobenzene	50.0	57.8		ug/kg		116	64 - 136
1,2,4-Trichlorobenzene	50.0	54.4		ug/kg		109	58 - 145
1,1,2-Trichloroethane	50.0	57.8		ug/kg		116	80 - 127
1,1,1-Trichloroethane	50.0	56.7		ug/kg		113	76 - 134
Trichloroethene	50.0	54.3		ug/kg		109	75 - 131
Trichlorofluoromethane	50.0	49.4		ug/kg		99	63 - 130
1,2,3-Trichloropropane	50.0	54.7		ug/kg		109	66 - 129
1,3,5-Trimethylbenzene	50.0	58.2		ug/kg		116	78 - 133
1,2,4-Trimethylbenzene	50.0	57.6		ug/kg		115	76 - 135
Vinyl chloride	50.0	49.6		ug/kg		99	58 - 134
Xylenes, total	150	189		ug/kg		126	79 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*96*		*41 - 150*
Dibromofluoromethane	*99*		*55 - 139*
Toluene-d8	*103*		*57 - 148*
4-Bromofluorobenzene	*96*		*58 - 150*

Lab Sample ID: 11F4282-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Oil **Prep Type: Total**
Analysis Batch: U010652 **Prep Batch: 11F4282_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	250	296		ug/kg		118	49 - 150	1	45
Benzene	50.0	52.4		ug/kg		105	76 - 130	8	43
Bromobenzene	50.0	49.4		ug/kg		99	80 - 128	8	50
Bromochloromethane	50.0	51.3		ug/kg		103	70 - 135	7	32
Bromodichloromethane	50.0	52.9		ug/kg		106	78 - 135	5	37
Bromoform	50.0	46.9		ug/kg		94	67 - 143	5	50
Bromomethane	50.0	46.5		ug/kg		93	58 - 150	2	50
2-Butanone	250	241		ug/kg		96	61 - 143	3	43
sec-Butylbenzene	50.0	54.0		ug/kg		108	80 - 134	8	50
n-Butylbenzene	50.0	55.4		ug/kg		111	71 - 141	7	50
tert-Butylbenzene	50.0	52.5		ug/kg		105	79 - 132	8	50
Carbon disulfide	50.0	48.0		ug/kg		96	70 - 134	7	47
Carbon Tetrachloride	50.0	45.6		ug/kg		91	75 - 137	8	44
Chlorobenzene	50.0	52.6		ug/kg		105	80 - 121	7	44
Chlorodibromomethane	50.0	50.1		ug/kg		100	77 - 130	5	45
Chloroethane	50.0	49.8		ug/kg		100	62 - 149	4	50
Chloroform	50.0	50.9		ug/kg		102	75 - 130	7	36
Chloromethane	50.0	40.6		ug/kg		81	35 - 130	6	50
2-Chlorotoluene	50.0	49.0		ug/kg		98	80 - 131	9	50
4-Chlorotoluene	50.0	51.7		ug/kg		103	80 - 129	8	50
1,2-Dibromo-3-chloropropane	50.0	45.9		ug/kg		92	62 - 142	4	50
1,2-Dibromoethane (EDB)	50.0	56.1		ug/kg		112	81 - 130	5	50

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4282-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Oil **Prep Type: Total**
Analysis Batch: U010652 **Prep Batch: 11F4282_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dibromomethane	50.0	52.0		ug/kg		104	77 - 133	4	45
1,4-Dichlorobenzene	50.0	50.6		ug/kg		101	75 - 128	7	50
1,3-Dichlorobenzene	50.0	50.6		ug/kg		101	79 - 128	8	50
1,2-Dichlorobenzene	50.0	51.5		ug/kg		103	80 - 130	6	50
Dichlorodifluoromethane	50.0	47.6		ug/kg		95	11 - 129	1	43
1,1-Dichloroethane	50.0	54.3		ug/kg		109	68 - 150	6	37
1,2-Dichloroethane	50.0	52.9		ug/kg		106	72 - 132	5	44
cis-1,2-Dichloroethene	50.0	53.9		ug/kg		108	77 - 132	7	35
1,1-Dichloroethene	50.0	50.9		ug/kg		102	75 - 133	10	41
trans-1,2-Dichloroethene	50.0	52.8		ug/kg		106	79 - 133	7	37
1,3-Dichloropropane	50.0	55.9		ug/kg		112	80 - 125	5	44
1,2-Dichloropropane	50.0	48.4		ug/kg		97	75 - 124	7	35
2,2-Dichloropropane	50.0	59.6		ug/kg		119	59 - 144	9	33
cis-1,3-Dichloropropene	50.0	61.8		ug/kg		124	80 - 137	7	43
trans-1,3-Dichloropropene	50.0	52.2		ug/kg		104	75 - 133	5	50
1,1-Dichloropropene	50.0	52.9		ug/kg		106	76 - 133	8	41
Ethylbenzene	50.0	56.0		ug/kg		112	80 - 128	7	48
Hexachlorobutadiene	50.0	48.1		ug/kg		96	60 - 150	5	50
2-Hexanone	250	320		ug/kg		128	63 - 149	2	50
Isopropylbenzene	50.0	62.7		ug/kg		125	74 - 131	8	50
p-Isopropyltoluene	50.0	54.2		ug/kg		108	75 - 133	7	50
Methyl tert-Butyl Ether	50.0	54.4		ug/kg		109	67 - 130	5	45
Methylene Chloride	50.0	49.5		ug/kg		99	65 - 144	6	39
4-Methyl-2-pentanone	250	295		ug/kg		118	64 - 142	2	50
Naphthalene	50.0	56.8		ug/kg		114	63 - 144	0.5	50
n-Propylbenzene	50.0	52.1		ug/kg		104	80 - 131	9	50
Styrene	50.0	59.3		ug/kg		119	80 - 144	8	50
1,1,1,2-Tetrachloroethane	50.0	48.7		ug/kg		97	80 - 129	7	43
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/kg		99	73 - 139	5	50
Tetrachloroethene	50.0	54.1		ug/kg		108	76 - 128	8	45
Toluene	50.0	54.4		ug/kg		109	80 - 125	8	44
1,2,3-Trichlorobenzene	50.0	56.5		ug/kg		113	64 - 136	2	50
1,2,4-Trichlorobenzene	50.0	52.6		ug/kg		105	58 - 145	3	50
1,1,2-Trichloroethane	50.0	55.4		ug/kg		111	80 - 127	4	41
1,1,1-Trichloroethane	50.0	52.6		ug/kg		105	76 - 134	8	39
Trichloroethene	50.0	50.6		ug/kg		101	75 - 131	7	40
Trichlorofluoromethane	50.0	47.0		ug/kg		94	63 - 130	5	42
1,2,3-Trichloropropane	50.0	51.5		ug/kg		103	66 - 129	6	50
1,3,5-Trimethylbenzene	50.0	53.0		ug/kg		106	78 - 133	9	50
1,2,4-Trimethylbenzene	50.0	53.2		ug/kg		106	76 - 135	8	50
Vinyl chloride	50.0	46.4		ug/kg		93	58 - 134	7	41
Xylenes, total	150	176		ug/kg		117	79 - 130	7	48

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*97*		*41 - 150*
Dibromofluoromethane	*99*		*55 - 139*
Toluene-d8	*104*		*57 - 148*
4-Bromofluorobenzene	*94*		*58 - 150*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4282-MS1 **Client Sample ID: Tunnel**
Matrix: Oil **Prep Type: Total**
Analysis Batch: U010652 **Prep Batch: 11F4282_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	ND		125	135		mg/kg		108	32 - 163
Benzene	ND		25.0	27.1		mg/kg		109	33 - 146
Bromobenzene	ND		25.0	25.6		mg/kg		103	10 - 156
Bromochloromethane	ND		25.0	26.8		mg/kg		107	43 - 138
Bromodichloromethane	ND		25.0	27.3		mg/kg		109	31 - 149
Bromoform	ND		25.0	23.9		mg/kg		96	14 - 167
Bromomethane	ND		25.0	3.46	M8	mg/kg		14	16 - 172
2-Butanone	ND		125	114		mg/kg		91	37 - 151
sec-Butylbenzene	ND		25.0	31.5		mg/kg		126	18 - 165
n-Butylbenzene	ND		25.0	32.9		mg/kg		132	10 - 168
tert-Butylbenzene	ND		25.0	30.6		mg/kg		123	17 - 165
Carbon disulfide	ND		25.0	22.3		mg/kg		89	34 - 147
Carbon Tetrachloride	ND		25.0	23.5		mg/kg		94	33 - 155
Chlorobenzene	ND		25.0	28.2		mg/kg		113	23 - 147
Chlorodibromomethane	ND		25.0	25.2		mg/kg		101	21 - 155
Chloroethane	ND		25.0	3.78	M8	mg/kg		15	44 - 155
Chloroform	ND		25.0	26.8		mg/kg		107	39 - 140
Chloromethane	ND		25.0	18.4		mg/kg		74	14 - 143
2-Chlorotoluene	ND		25.0	26.8		mg/kg		107	21 - 154
4-Chlorotoluene	ND		25.0	27.3		mg/kg		109	10 - 156
1,2-Dibromo-3-chloropropane	ND		25.0	22.0		mg/kg		88	10 - 159
1,2-Dibromoethane (EDB)	ND		25.0	27.6		mg/kg		110	19 - 151
Dibromomethane	ND		25.0	25.2		mg/kg		101	32 - 147
1,4-Dichlorobenzene	ND		25.0	26.8		mg/kg		107	10 - 152
1,3-Dichlorobenzene	ND		25.0	27.4		mg/kg		110	10 - 153
1,2-Dichlorobenzene	ND		25.0	26.9		mg/kg		108	10 - 155
Dichlorodifluoromethane	ND		25.0	18.6		mg/kg		74	10 - 143
1,1-Dichloroethane	ND		25.0	27.2		mg/kg		109	49 - 156
1,2-Dichloroethane	ND		25.0	25.5		mg/kg		102	27 - 145
cis-1,2-Dichloroethene	ND		25.0	26.8		mg/kg		107	39 - 143
1,1-Dichloroethene	ND		25.0	26.9		mg/kg		108	42 - 145
trans-1,2-Dichloroethene	ND		25.0	26.1		mg/kg		105	41 - 146
1,3-Dichloropropane	ND		25.0	26.7		mg/kg		107	30 - 143
1,2-Dichloropropane	ND		25.0	24.7		mg/kg		99	37 - 136
2,2-Dichloropropane	ND		25.0	27.0		mg/kg		108	30 - 145
cis-1,3-Dichloropropene	ND		25.0	29.9		mg/kg		120	29 - 149
trans-1,3-Dichloropropene	ND		25.0	25.3		mg/kg		101	17 - 146
1,1-Dichloropropene	ND		25.0	26.9		mg/kg		108	36 - 147
Ethylbenzene	ND		25.0	29.3		mg/kg		117	16 - 160
Hexachlorobutadiene	ND		25.0	41.8		mg/kg		167	10 - 191
2-Hexanone	ND		125	149		mg/kg		119	19 - 154
Isopropylbenzene	ND	L	25.0	33.8		mg/kg		135	16 - 156
p-Isopropyltoluene	ND		25.0	31.4		mg/kg		126	13 - 160
Methyl tert-Butyl Ether	ND		25.0	26.9		mg/kg		107	30 - 136
Methylene Chloride	0.835		25.0	26.1		mg/kg		101	31 - 160
4-Methyl-2-pentanone	ND		125	138		mg/kg		111	25 - 149
Naphthalene	ND		25.0	25.4		mg/kg		102	10 - 151
n-Propylbenzene	ND		25.0	28.4		mg/kg		114	17 - 158
Styrene	ND		25.0	30.6		mg/kg		122	11 - 168

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4282-MS1 **Client Sample ID: Tunnel**
Matrix: Oil **Prep Type: Total**
Analysis Batch: U010652 **Prep Batch: 11F4282_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	ND		25.0	26.3		mg/kg		105	30 - 147
1,1,2,2-Tetrachloroethane	ND		25.0	25.2		mg/kg		101	20 - 155
Tetrachloroethene	ND		25.0	28.7		mg/kg		115	27 - 151
Toluene	ND		25.0	32.8		mg/kg		131	30 - 145
1,2,3-Trichlorobenzene	ND		25.0	22.5		mg/kg		90	10 - 158
1,2,4-Trichlorobenzene	ND		25.0	26.4		mg/kg		106	10 - 160
1,1,2-Trichloroethane	ND		25.0	27.0		mg/kg		108	34 - 140
1,1,1-Trichloroethane	ND		25.0	27.7		mg/kg		111	36 - 150
Trichloroethene	ND		25.0	28.0		mg/kg		112	33 - 145
Trichlorofluoromethane	ND		25.0	19.4		mg/kg		77	31 - 150
1,2,3-Trichloropropane	ND		25.0	25.7		mg/kg		103	14 - 143
1,3,5-Trimethylbenzene	ND		25.0	29.4		mg/kg		117	20 - 158
1,2,4-Trimethylbenzene	ND		25.0	29.0		mg/kg		116	10 - 166
Vinyl chloride	ND		25.0	20.7		mg/kg		83	32 - 144
Xylenes, total	ND		75.0	89.0		mg/kg		119	16 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*88*		*41 - 150*
Dibromofluoromethane	*98*		*55 - 139*
Toluene-d8	*100*		*57 - 148*
4-Bromofluorobenzene	*99*		*58 - 150*

Lab Sample ID: 11F4282-MSD1 **Client Sample ID: Tunnel**
Matrix: Oil **Prep Type: Total**
Analysis Batch: U010652 **Prep Batch: 11F4282_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	ND		125	143		mg/kg		115	32 - 163	6	45
Benzene	ND		25.0	26.1		mg/kg		104	33 - 146	4	43
Bromobenzene	ND		25.0	25.3		mg/kg		101	10 - 156	1	50
Bromochloromethane	ND		25.0	26.3		mg/kg		105	43 - 138	2	32
Bromodichloromethane	ND		25.0	26.0		mg/kg		104	31 - 149	5	37
Bromoform	ND		25.0	22.2		mg/kg		89	14 - 167	8	50
Bromomethane	ND		25.0	3.27	M8	mg/kg		13	16 - 172	6	50
2-Butanone	ND		125	114		mg/kg		91	37 - 151	0.5	43
sec-Butylbenzene	ND		25.0	30.5		mg/kg		122	18 - 165	3	50
n-Butylbenzene	ND		25.0	31.9		mg/kg		128	10 - 168	3	50
tert-Butylbenzene	ND		25.0	29.6		mg/kg		118	17 - 165	4	50
Carbon disulfide	ND		25.0	21.6		mg/kg		86	34 - 147	3	47
Carbon Tetrachloride	ND		25.0	22.8		mg/kg		91	33 - 155	3	44
Chlorobenzene	ND		25.0	27.0		mg/kg		108	23 - 147	4	44
Chlorodibromomethane	ND		25.0	24.0		mg/kg		96	21 - 155	5	45
Chloroethane	ND		25.0	3.22	M8	mg/kg		13	44 - 155	16	50
Chloroform	ND		25.0	26.2		mg/kg		105	39 - 140	2	36
Chloromethane	ND		25.0	18.4		mg/kg		74	14 - 143	0.08	50
2-Chlorotoluene	ND		25.0	26.0		mg/kg		104	21 - 154	3	50
4-Chlorotoluene	ND		25.0	26.9		mg/kg		107	10 - 156	2	50
1,2-Dibromo-3-chloropropane	ND		25.0	19.6		mg/kg		79	10 - 159	11	50
1,2-Dibromoethane (EDB)	ND		25.0	27.1		mg/kg		108	19 - 151	2	50

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4282-MSD1 **Client Sample ID: Tunnel**
Matrix: Oil **Prep Type: Total**
Analysis Batch: U010652 **Prep Batch: 11F4282_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dibromomethane	ND		25.0	25.1		mg/kg		100	32 - 147	0.4	45
1,4-Dichlorobenzene	ND		25.0	25.9		mg/kg		104	10 - 152	3	50
1,3-Dichlorobenzene	ND		25.0	26.5		mg/kg		106	10 - 153	3	50
1,2-Dichlorobenzene	ND		25.0	25.9		mg/kg		104	10 - 155	4	50
Dichlorodifluoromethane	ND		25.0	17.9		mg/kg		71	10 - 143	4	43
1,1-Dichloroethane	ND		25.0	26.8		mg/kg		107	49 - 156	1	37
1,2-Dichloroethane	ND		25.0	25.6		mg/kg		102	27 - 145	0.4	44
cis-1,2-Dichloroethene	ND		25.0	26.4		mg/kg		106	39 - 143	2	35
1,1-Dichloroethene	ND		25.0	27.4		mg/kg		110	42 - 145	2	41
trans-1,2-Dichloroethene	ND		25.0	25.7		mg/kg		103	41 - 146	2	37
1,3-Dichloropropane	ND		25.0	26.3		mg/kg		105	30 - 143	2	44
1,2-Dichloropropane	ND		25.0	24.0		mg/kg		96	37 - 136	3	35
2,2-Dichloropropane	ND		25.0	26.5		mg/kg		106	30 - 145	2	33
cis-1,3-Dichloropropene	ND		25.0	29.0		mg/kg		116	29 - 149	3	43
trans-1,3-Dichloropropene	ND		25.0	24.7		mg/kg		99	17 - 146	2	50
1,1-Dichloropropene	ND		25.0	26.0		mg/kg		104	36 - 147	4	41
Ethylbenzene	ND		25.0	28.3		mg/kg		113	16 - 160	4	48
Hexachlorobutadiene	ND		25.0	39.9		mg/kg		160	10 - 191	5	50
2-Hexanone	ND		125	149		mg/kg		119	19 - 154	0.2	50
Isopropylbenzene	ND	L	25.0	32.5		mg/kg		130	16 - 156	4	50
p-Isopropyltoluene	ND		25.0	30.6		mg/kg		122	13 - 160	3	50
Methyl tert-Butyl Ether	ND		25.0	28.2		mg/kg		113	30 - 136	5	45
Methylene Chloride	0.835		25.0	25.6		mg/kg		99	31 - 160	2	39
4-Methyl-2-pentanone	ND		125	141		mg/kg		112	25 - 149	2	50
Naphthalene	ND		25.0	24.2		mg/kg		97	10 - 151	5	50
n-Propylbenzene	ND		25.0	27.6		mg/kg		111	17 - 158	3	50
Styrene	ND		25.0	30.1		mg/kg		120	11 - 168	2	50
1,1,1,2-Tetrachloroethane	ND		25.0	25.0		mg/kg		100	30 - 147	5	43
1,1,2,2-Tetrachloroethane	ND		25.0	24.8		mg/kg		99	20 - 155	1	50
Tetrachloroethene	ND		25.0	27.4		mg/kg		110	27 - 151	4	45
Toluene	ND		25.0	30.6		mg/kg		122	30 - 145	7	44
1,2,3-Trichlorobenzene	ND		25.0	21.7		mg/kg		87	10 - 158	4	50
1,2,4-Trichlorobenzene	ND		25.0	24.7		mg/kg		99	10 - 160	7	50
1,1,2-Trichloroethane	ND		25.0	26.7		mg/kg		107	34 - 140	0.9	41
1,1,1-Trichloroethane	ND		25.0	27.0		mg/kg		108	36 - 150	3	39
Trichloroethene	ND		25.0	26.9		mg/kg		108	33 - 145	4	40
Trichlorofluoromethane	ND		25.0	13.3		mg/kg		53	31 - 150	37	42
1,2,3-Trichloropropane	ND		25.0	25.6		mg/kg		102	14 - 143	0.3	50
1,3,5-Trimethylbenzene	ND		25.0	28.7		mg/kg		115	20 - 158	2	50
1,2,4-Trimethylbenzene	ND		25.0	28.5		mg/kg		114	10 - 166	2	50
Vinyl chloride	ND		25.0	19.5		mg/kg		78	32 - 144	6	41
Xylenes, total	ND		75.0	87.4		mg/kg		117	16 - 159	2	48

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*94*		*41 - 150*
Dibromofluoromethane	*100*		*55 - 139*
Toluene-d8	*102*		*57 - 148*
4-Bromofluorobenzene	*99*		*58 - 150*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Lab Sample ID: 11F3219-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010348 **Prep Batch: 11F3219_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Acenaphthylene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Anthracene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Benzo (a) anthracene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Benzo (a) pyrene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Benzo (b) fluoranthene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Benzo (g,h,i) perylene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Benzo (k) fluoranthene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
4-Bromophenyl phenyl ether	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Butyl benzyl phthalate	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Carbazole	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
4-Chloro-3-methylphenol	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
4-Chloroaniline	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Bis(2-chloroethoxy)methane	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Bis(2-chloroethyl)ether	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Bis(2-chloroisopropyl)ether	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
2-Chloronaphthalene	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
2-Chlorophenol	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
4-Chlorophenyl phenyl ether	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Chrysene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Dibenz (a,h) anthracene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Dibenzofuran	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Di-n-butyl phthalate	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
1,4-Dichlorobenzene	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
1,2-Dichlorobenzene	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
1,3-Dichlorobenzene	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
3,3-Dichlorobenzidine	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
2,4-Dichlorophenol	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Diethyl phthalate	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
2,4-Dimethylphenol	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Dimethyl phthalate	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
4,6-Dinitro-2-methylphenol	ND		25.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
2,4-Dinitrophenol	ND		25.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
2,6-Dinitrotoluene	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
2,4-Dinitrotoluene	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Di-n-octyl phthalate	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Bis(2-ethylhexyl)phthalate	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Fluoranthene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Fluorene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Hexachlorobenzene	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Hexachlorobutadiene	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Hexachlorocyclopentadiene	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Hexachloroethane	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Indeno (1,2,3-cd) pyrene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Isophorone	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
2-Methylnaphthalene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
2-Methylphenol	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
3/4-Methylphenol	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Naphthalene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3219-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010348 **Prep Batch: 11F3219_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		25.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
2-Nitroaniline	ND		25.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
4-Nitroaniline	ND		25.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Nitrobenzene	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
4-Nitrophenol	ND		25.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
2-Nitrophenol	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
N-Nitrosodiphenylamine	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
N-Nitrosodi-n-propylamine	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Pentachlorophenol	ND		25.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Phenanthrene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Phenol	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
Pyrene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
1,2,4-Trichlorobenzene	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
1-Methylnaphthalene	ND		2.00		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
2,4,6-Trichlorophenol	ND		10.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00
2,4,5-Trichlorophenol	ND		25.0		ug/L		06/13/11 11:15	06/13/11 19:43	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*88*		*13 - 120*	*06/13/11 11:15*	*06/13/11 19:43*	*1.00*
2,4,6-Tribromophenol	*63*		*29 - 132*	*06/13/11 11:15*	*06/13/11 19:43*	*1.00*
Phenol-d5	*28*		*10 - 120*	*06/13/11 11:15*	*06/13/11 19:43*	*1.00*
2-Fluorobiphenyl	*61*		*29 - 120*	*06/13/11 11:15*	*06/13/11 19:43*	*1.00*
2-Fluorophenol	*46*		*10 - 120*	*06/13/11 11:15*	*06/13/11 19:43*	*1.00*
Nitrobenzene-d5	*67*		*27 - 120*	*06/13/11 11:15*	*06/13/11 19:43*	*1.00*

Lab Sample ID: 11F3219-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010348 **Prep Batch: 11F3219_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	50.0	35.4	MNR1	ug/L		71	50 - 120
Acenaphthylene	50.0	31.9	MNR1	ug/L		64	53 - 120
Anthracene	50.0	39.5	MNR1	ug/L		79	63 - 120
Benzo (a) anthracene	50.0	39.5	MNR1	ug/L		79	57 - 122
Benzo (a) pyrene	50.0	40.5	MNR1	ug/L		81	46 - 138
Benzo (b) fluoranthene	50.0	37.7	MNR1	ug/L		75	45 - 138
Benzo (g,h,i) perylene	50.0	40.4	MNR1	ug/L		81	48 - 137
Benzo (k) fluoranthene	50.0	41.0	MNR1	ug/L		82	44 - 134
4-Bromophenyl phenyl ether	50.0	39.4	MNR1	ug/L		79	52 - 120
Butyl benzyl phthalate	50.0	47.2	MNR1	ug/L		94	61 - 133
Carbazole	50.0	40.5	MNR1	ug/L		81	60 - 120
4-Chloro-3-methylphenol	50.0	41.6	MNR1	ug/L		83	49 - 120
4-Chloroaniline	50.0	38.8	MNR1	ug/L		78	39 - 120
Bis(2-chloroethoxy)methane	50.0	42.5	MNR1	ug/L		85	43 - 120
Bis(2-chloroethyl)ether	50.0	38.4	MNR1	ug/L		77	43 - 120
Bis(2-chloroisopropyl)ether	50.0	38.1	MNR1	ug/L		76	45 - 120
2-Chloronaphthalene	50.0	31.4	MNR1	ug/L		63	43 - 120
2-Chlorophenol	50.0	39.5	MNR1	ug/L		79	40 - 120
4-Chlorophenyl phenyl ether	50.0	37.4	MNR1	ug/L		75	56 - 120

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3219-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010348 **Prep Batch: 11F3219_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chrysene	50.0	37.6	MNR1	ug/L		75	54 - 123
Dibenz (a,h) anthracene	50.0	40.2	MNR1	ug/L		80	50 - 136
Dibenzofuran	50.0	36.4	MNR1	ug/L		73	55 - 120
Di-n-butyl phthalate	50.0	43.1	MNR1	ug/L		86	64 - 120
1,4-Dichlorobenzene	50.0	29.2	MNR1	ug/L		58	27 - 120
1,2-Dichlorobenzene	50.0	30.0	MNR1	ug/L		60	29 - 120
1,3-Dichlorobenzene	50.0	29.1	MNR1	ug/L		58	27 - 120
3,3-Dichlorobenzidine	50.0	41.1	MNR1	ug/L		82	49 - 120
2,4-Dichlorophenol	50.0	40.0	MNR1	ug/L		80	39 - 120
Diethyl phthalate	50.0	40.1	MNR1	ug/L		80	53 - 120
2,4-Dimethylphenol	50.0	41.6	MNR1	ug/L		83	28 - 123
Dimethyl phthalate	50.0	39.9	MNR1	ug/L		80	59 - 120
4,6-Dinitro-2-methylphenol	50.0	42.0	MNR1	ug/L		84	35 - 132
2,4-Dinitrophenol	50.0	44.5	MNR1	ug/L		89	21 - 145
2,6-Dinitrotoluene	50.0	41.4	MNR1	ug/L		83	62 - 123
2,4-Dinitrotoluene	50.0	38.5	MNR1	ug/L		77	61 - 124
Di-n-octyl phthalate	50.0	46.8	MNR1	ug/L		94	51 - 141
Bis(2-ethylhexyl)phthalate	50.0	45.7	MNR1	ug/L		91	54 - 134
Fluoranthene	50.0	39.3	MNR1	ug/L		79	62 - 120
Fluorene	50.0	36.9	MNR1	ug/L		74	58 - 120
Hexachlorobenzene	50.0	39.0	MNR1	ug/L		78	60 - 120
Hexachlorobutadiene	50.0	32.9	MNR1	ug/L		66	24 - 120
Hexachlorocyclopentadiene	50.0	17.9	MNR1	ug/L		36	19 - 120
Hexachloroethane	50.0	32.9	MNR1	ug/L		66	26 - 120
Indeno (1,2,3-cd) pyrene	50.0	39.9	MNR1	ug/L		80	50 - 136
Isophorone	50.0	37.8	MNR1	ug/L		76	46 - 120
2-Methylnaphthalene	50.0	33.7	MNR1	ug/L		67	34 - 120
2-Methylphenol	50.0	34.0	MNR1	ug/L		68	38 - 120
3/4-Methylphenol	50.0	32.4	MNR1	ug/L		65	34 - 120
Naphthalene	50.0	33.2	MNR1	ug/L		66	32 - 120
3-Nitroaniline	50.0	42.1	MNR1	ug/L		84	54 - 120
2-Nitroaniline	50.0	42.7	MNR1	ug/L		85	59 - 121
4-Nitroaniline	50.0	42.1	MNR1	ug/L		84	55 - 124
Nitrobenzene	50.0	36.0	MNR1	ug/L		72	44 - 120
4-Nitrophenol	50.0	20.0	MNR1	ug/L		40	10 - 120
2-Nitrophenol	50.0	41.7	MNR1	ug/L		83	42 - 120
N-Nitrosodiphenylamine	50.0	47.3	MNR1	ug/L		95	59 - 120
N-Nitrosodi-n-propylamine	50.0	42.5	MNR1	ug/L		85	50 - 121
Pentachlorophenol	50.0	49.2	MNR1	ug/L		98	36 - 143
Phenanthrene	50.0	39.7	MNR1	ug/L		79	60 - 120
Phenol	50.0	19.5	MNR1	ug/L		39	10 - 120
Pyrene	50.0	40.4	MNR1	ug/L		81	57 - 124
1,2,4-Trichlorobenzene	50.0	29.2	MNR1	ug/L		58	27 - 120
1-Methylnaphthalene	50.0	30.0	MNR1	ug/L		60	34 - 120
2,4,6-Trichlorophenol	50.0	40.1	MNR1	ug/L		80	48 - 125
2,4,5-Trichlorophenol	50.0	37.1	MNR1	ug/L		74	51 - 125

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*80*		*13 - 120*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3219-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010348 **Prep Batch: 11F3219_P**

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*64*		*29 - 132*
Phenol-d5	*31*		*10 - 120*
2-Fluorobiphenyl	*64*		*29 - 120*
2-Fluorophenol	*47*		*10 - 120*
Nitrobenzene-d5	*69*		*27 - 120*

Lab Sample ID: 11F3219-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010348 **Prep Batch: 11F3219_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	50.0	36.1		ug/L		72	50 - 120	2	24
Acenaphthylene	50.0	32.8		ug/L		66	53 - 120	3	22
Anthracene	50.0	40.1		ug/L		80	63 - 120	2	18
Benzo (a) anthracene	50.0	41.4		ug/L		83	57 - 122	5	20
Benzo (a) pyrene	50.0	41.4		ug/L		83	46 - 138	2	24
Benzo (b) fluoranthene	50.0	42.1		ug/L		84	45 - 138	11	36
Benzo (g,h,i) perylene	50.0	40.7		ug/L		81	48 - 137	0.8	19
Benzo (k) fluoranthene	50.0	38.8		ug/L		78	44 - 134	6	34
4-Bromophenyl phenyl ether	50.0	41.5		ug/L		83	52 - 120	5	16
Butyl benzyl phthalate	50.0	49.3		ug/L		99	61 - 133	4	19
Carbazole	50.0	41.0		ug/L		82	60 - 120	1	18
4-Chloro-3-methylphenol	50.0	43.3		ug/L		87	49 - 120	4	37
4-Chloroaniline	50.0	38.7		ug/L		77	39 - 120	0.3	36
Bis(2-chloroethoxy)methane	50.0	43.5		ug/L		87	43 - 120	2	28
Bis(2-chloroethyl)ether	50.0	40.7		ug/L		81	43 - 120	6	19
Bis(2-chloroisopropyl)ether	50.0	39.9		ug/L		80	45 - 120	5	20
2-Chloronaphthalene	50.0	32.5		ug/L		65	43 - 120	3	25
2-Chlorophenol	50.0	41.1		ug/L		82	40 - 120	4	18
4-Chlorophenyl phenyl ether	50.0	39.2		ug/L		78	56 - 120	5	19
Chrysene	50.0	38.7		ug/L		77	54 - 123	3	20
Dibenz (a,h) anthracene	50.0	41.0		ug/L		82	50 - 136	2	18
Dibenzofuran	50.0	37.4		ug/L		75	55 - 120	3	20
Di-n-butyl phthalate	50.0	43.7		ug/L		87	64 - 120	1	19
1,4-Dichlorobenzene	50.0	30.7		ug/L		61	27 - 120	5	33
1,2-Dichlorobenzene	50.0	31.0		ug/L		62	29 - 120	3	33
1,3-Dichlorobenzene	50.0	30.4		ug/L		61	27 - 120	4	34
3,3-Dichlorobenzidine	50.0	43.3		ug/L		87	49 - 120	5	27
2,4-Dichlorophenol	50.0	40.6		ug/L		81	39 - 120	1	21
Diethyl phthalate	50.0	41.1		ug/L		82	53 - 120	2	25
2,4-Dimethylphenol	50.0	42.5		ug/L		85	28 - 123	2	50
Dimethyl phthalate	50.0	41.0		ug/L		82	59 - 120	3	20
4,6-Dinitro-2-methylphenol	50.0	43.0		ug/L		86	35 - 132	2	24
2,4-Dinitrophenol	50.0	46.8		ug/L		94	21 - 145	5	28
2,6-Dinitrotoluene	50.0	42.0		ug/L		84	62 - 123	1	24
2,4-Dinitrotoluene	50.0	40.1		ug/L		80	61 - 124	4	21
Di-n-octyl phthalate	50.0	49.5		ug/L		99	51 - 141	6	21
Bis(2-ethylhexyl)phthalate	50.0	48.2		ug/L		96	54 - 134	5	19
Fluoranthene	50.0	39.5		ug/L		79	62 - 120	0.5	18

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3219-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010348 **Prep Batch: 11F3219_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Fluorene	50.0	37.9		ug/L		76	58 - 120	3	21
Hexachlorobenzene	50.0	41.5		ug/L		83	60 - 120	6	19
Hexachlorobutadiene	50.0	34.7		ug/L		69	24 - 120	5	38
Hexachlorocyclopentadiene	50.0	19.6		ug/L		39	19 - 120	9	38
Hexachloroethane	50.0	34.1		ug/L		68	26 - 120	4	40
Indeno (1,2,3-cd) pyrene	50.0	40.6		ug/L		81	50 - 136	2	18
Isophorone	50.0	38.3		ug/L		77	46 - 120	1	34
2-Methylnaphthalene	50.0	34.6		ug/L		69	34 - 120	3	48
2-Methylphenol	50.0	35.7		ug/L		71	38 - 120	5	19
3/4-Methylphenol	50.0	33.9		ug/L		68	34 - 120	5	24
Naphthalene	50.0	33.7		ug/L		67	32 - 120	2	45
3-Nitroaniline	50.0	43.0		ug/L		86	54 - 120	2	23
2-Nitroaniline	50.0	44.7		ug/L		89	59 - 121	5	25
4-Nitroaniline	50.0	42.8		ug/L		86	55 - 124	2	23
Nitrobenzene	50.0	36.6		ug/L		73	44 - 120	2	34
4-Nitrophenol	50.0	20.3		ug/L		41	10 - 120	2	29
2-Nitrophenol	50.0	44.0		ug/L		88	42 - 120	5	35
N-Nitrosodiphenylamine	50.0	48.7		ug/L		97	59 - 120	3	23
N-Nitrosodi-n-propylamine	50.0	44.2		ug/L		88	50 - 121	4	19
Pentachlorophenol	50.0	49.4		ug/L		99	36 - 143	0.4	24
Phenanthrene	50.0	40.6		ug/L		81	60 - 120	2	19
Phenol	50.0	20.1		ug/L		40	10 - 120	3	27
Pyrene	50.0	41.5		ug/L		83	57 - 124	3	19
1,2,4-Trichlorobenzene	50.0	29.6		ug/L		59	27 - 120	2	34
1-Methylnaphthalene	50.0	30.7		ug/L		61	34 - 120	2	45
2,4,6-Trichlorophenol	50.0	41.6		ug/L		83	48 - 125	4	26
2,4,5-Trichlorophenol	50.0	39.0		ug/L		78	51 - 125	5	26

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
Terphenyl-d14	*87*		*13 - 120*
2,4,6-Tribromophenol	*71*		*29 - 132*
Phenol-d5	*33*		*10 - 120*
2-Fluorobiphenyl	*66*		*29 - 120*
2-Fluorophenol	*49*		*10 - 120*
Nitrobenzene-d5	*73*		*27 - 120*

Lab Sample ID: 11F3515-BLK1 **Client Sample ID: Method Blank**
Matrix: Oil **Prep Type: Total**
Analysis Batch: 11F3515 **Prep Batch: 11F3515_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Acenaphthylene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Anthracene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Benzo (a) anthracene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Benzo (a) pyrene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Benzo (b) fluoranthene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Benzo (g,h,i) perylene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Benzo (k) fluoranthene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3515-BLK1 **Client Sample ID: Method Blank**
Matrix: Oil **Prep Type: Total**
Analysis Batch: 11F3515 **Prep Batch: 11F3515_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Butyl benzyl phthalate	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Carbazole	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
4-Chloro-3-methylphenol	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
4-Chloroaniline	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Bis(2-chloroethoxy)methane	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Bis(2-chloroethyl)ether	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Bis(2-chloroisopropyl)ether	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
2-Chloronaphthalene	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
2-Chlorophenol	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
4-Chlorophenyl phenyl ether	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Chrysene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Dibenz (a,h) anthracene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Dibenzofuran	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Di-n-butyl phthalate	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
1,4-Dichlorobenzene	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
1,2-Dichlorobenzene	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
1,3-Dichlorobenzene	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
3,3-Dichlorobenzidine	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
2,4-Dichlorophenol	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Diethyl phthalate	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
2,4-Dimethylphenol	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Dimethyl phthalate	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
4,6-Dinitro-2-methylphenol	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
2,4-Dinitrophenol	ND		25.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
2,6-Dinitrotoluene	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
2,4-Dinitrotoluene	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Di-n-octyl phthalate	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Bis(2-ethylhexyl)phthalate	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Fluoranthene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Fluorene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Hexachlorobenzene	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Hexachlorobutadiene	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Hexachlorocyclopentadiene	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Hexachloroethane	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Indeno (1,2,3-cd) pyrene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Isophorone	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
2-Methylnaphthalene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
2-Methylphenol	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
3/4-Methylphenol	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Naphthalene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
3-Nitroaniline	ND		25.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
2-Nitroaniline	ND		25.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
4-Nitroaniline	ND		25.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Nitrobenzene	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
4-Nitrophenol	ND		25.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
2-Nitrophenol	ND		25.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
N-Nitrosodiphenylamine	ND		25.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
N-Nitrosodi-n-propylamine	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Pentachlorophenol	ND		25.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3515-BLK1 **Client Sample ID: Method Blank**
Matrix: Oil **Prep Type: Total**
Analysis Batch: 11F3515 **Prep Batch: 11F3515_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Phenol	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Pyrene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
Pyridine	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
1,2,4-Trichlorobenzene	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
1-Methylnaphthalene	ND		2.00		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
2,4,6-Trichlorophenol	ND		10.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00
2,4,5-Trichlorophenol	ND		25.0		mg/kg		06/14/11 13:10	06/15/11 16:36	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*87*		*18 - 120*	*06/14/11 13:10*	*06/15/11 16:36*	*1.00*
2,4,6-Tribromophenol	*60*		*19 - 120*	*06/14/11 13:10*	*06/15/11 16:36*	*1.00*
Phenol-d5	*75*		*18 - 120*	*06/14/11 13:10*	*06/15/11 16:36*	*1.00*
2-Fluorobiphenyl	*68*		*14 - 120*	*06/14/11 13:10*	*06/15/11 16:36*	*1.00*
2-Fluorophenol	*70*		*17 - 120*	*06/14/11 13:10*	*06/15/11 16:36*	*1.00*
Nitrobenzene-d5	*74*		*17 - 120*	*06/14/11 13:10*	*06/15/11 16:36*	*1.00*

Lab Sample ID: 11F3515-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Oil **Prep Type: Total**
Analysis Batch: 11F3515 **Prep Batch: 11F3515_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	50.0	37.5	MNR1	mg/kg		75	49 - 120
Acenaphthylene	50.0	33.7	MNR1	mg/kg		67	52 - 120
Anthracene	50.0	40.6	MNR1	mg/kg		81	58 - 120
Benzo (a) anthracene	50.0	41.5	MNR1	mg/kg		83	57 - 120
Benzo (a) pyrene	50.0	41.3	MNR1	mg/kg		83	55 - 120
Benzo (b) fluoranthene	50.0	39.6	MNR1	mg/kg		79	51 - 123
Benzo (g,h,i) perylene	50.0	41.1	MNR1	mg/kg		82	49 - 121
Benzo (k) fluoranthene	50.0	40.0	MNR1	mg/kg		80	42 - 129
4-Bromophenyl phenyl ether	50.0	41.8	MNR1	mg/kg		84	49 - 120
Butyl benzyl phthalate	50.0	47.8	MNR1	mg/kg		96	59 - 124
Carbazole	50.0	41.0	MNR1	mg/kg		82	54 - 120
4-Chloro-3-methylphenol	50.0	44.3	MNR1	mg/kg		89	49 - 120
4-Chloroaniline	50.0	39.5	MNR1	mg/kg		79	41 - 120
Bis(2-chloroethoxy)methane	50.0	40.1	MNR1	mg/kg		80	37 - 120
Bis(2-chloroethyl)ether	50.0	35.8	MNR1	mg/kg		72	29 - 120
Bis(2-chloroisopropyl)ether	50.0	38.0	MNR1	mg/kg		76	28 - 120
2-Chloronaphthalene	50.0	34.9	MNR1	mg/kg		70	45 - 120
2-Chlorophenol	50.0	39.8	MNR1	mg/kg		80	42 - 120
4-Chlorophenyl phenyl ether	50.0	40.4	MNR1	mg/kg		81	52 - 120
Chrysene	50.0	38.8	MNR1	mg/kg		78	55 - 120
Dibenz (a,h) anthracene	50.0	41.7	MNR1	mg/kg		83	50 - 123
Dibenzofuran	50.0	38.9	MNR1	mg/kg		78	54 - 120
Di-n-butyl phthalate	50.0	44.0	MNR1	mg/kg		88	58 - 120
1,4-Dichlorobenzene	50.0	33.9	MNR1	mg/kg		68	15 - 120
1,2-Dichlorobenzene	50.0	34.1	MNR1	mg/kg		68	17 - 120
1,3-Dichlorobenzene	50.0	33.9	MNR1	mg/kg		68	13 - 120
3,3-Dichlorobenzidine	50.0	45.8	MNR1	mg/kg		92	54 - 120

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3515-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Oil **Prep Type: Total**
Analysis Batch: 11F3515 **Prep Batch: 11F3515_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
2,4-Dichlorophenol	50.0	41.1	MNR1	mg/kg		82	43 - 120
Diethyl phthalate	50.0	40.9	MNR1	mg/kg		82	52 - 120
2,4-Dimethylphenol	50.0	41.2	MNR1	mg/kg		82	47 - 120
Dimethyl phthalate	50.0	41.2	MNR1	mg/kg		82	55 - 120
4,6-Dinitro-2-methylphenol	50.0	40.4	MNR1	mg/kg		81	27 - 134
2,4-Dinitrophenol	50.0	38.3	MNR1	mg/kg		77	15 - 145
2,6-Dinitrotoluene	50.0	41.7	MNR1	mg/kg		83	56 - 120
2,4-Dinitrotoluene	50.0	39.9	MNR1	mg/kg		80	55 - 122
Di-n-octyl phthalate	50.0	48.5	MNR1	mg/kg		97	48 - 131
Bis(2-ethylhexyl)phthalate	50.0	46.8	MNR1	mg/kg		94	51 - 127
Fluoranthene	50.0	40.9	MNR1	mg/kg		82	58 - 120
Fluorene	50.0	39.1	MNR1	mg/kg		78	54 - 120
Hexachlorobenzene	50.0	40.8	MNR1	mg/kg		82	56 - 120
Hexachlorobutadiene	50.0	41.9	MNR1	mg/kg		84	19 - 120
Hexachlorocyclopentadiene	50.0	23.0	MNR1	mg/kg		46	11 - 120
Hexachloroethane	50.0	37.7	MNR1	mg/kg		75	14 - 120
Indeno (1,2,3-cd) pyrene	50.0	41.9	MNR1	mg/kg		84	50 - 122
Isophorone	50.0	36.7	MNR1	mg/kg		73	43 - 120
2-Methylnaphthalene	50.0	38.7	MNR1	mg/kg		77	36 - 120
2-Methylphenol	50.0	37.8	MNR1	mg/kg		76	47 - 120
3/4-Methylphenol	50.0	38.2	MNR1	mg/kg		76	53 - 135
Naphthalene	50.0	36.7	MNR1	mg/kg		73	28 - 120
3-Nitroaniline	50.0	43.2	MNR1	mg/kg		86	54 - 120
2-Nitroaniline	50.0	44.0	MNR1	mg/kg		88	59 - 120
4-Nitroaniline	50.0	43.4	MNR1	mg/kg		87	55 - 121
Nitrobenzene	50.0	34.8	MNR1	mg/kg		70	30 - 120
4-Nitrophenol	50.0	43.1	MNR1	mg/kg		86	44 - 133
2-Nitrophenol	50.0	42.3	MNR1	mg/kg		85	36 - 120
N-Nitrosodiphenylamine	50.0	47.8	MNR1	mg/kg		96	56 - 120
N-Nitrosodi-n-propylamine	50.0	40.0	MNR1	mg/kg		80	45 - 120
Pentachlorophenol	50.0	54.4	MNR1	mg/kg		109	42 - 135
Phenanthrene	50.0	40.5	MNR1	mg/kg		81	56 - 120
Phenol	50.0	38.1	MNR1	mg/kg		76	45 - 120
Pyrene	50.0	40.6	MNR1	mg/kg		81	56 - 120
Pyridine	50.0	32.4	MNR1	mg/kg		65	26 - 120
1,2,4-Trichlorobenzene	50.0	34.7	MNR1	mg/kg		69	22 - 120
1-Methylnaphthalene	50.0	34.1	MNR1	mg/kg		68	36 - 120
2,4,6-Trichlorophenol	50.0	42.3	MNR1	mg/kg		85	50 - 120
2,4,5-Trichlorophenol	50.0	38.6	MNR1	mg/kg		77	54 - 120

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*85*		*18 - 120*
2,4,6-Tribromophenol	*70*		*19 - 120*
Phenol-d5	*68*		*18 - 120*
2-Fluorobiphenyl	*67*		*14 - 120*
2-Fluorophenol	*67*		*17 - 120*
Nitrobenzene-d5	*68*		*17 - 120*

QC Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1697

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons

Lab Sample ID: 11F3777-BLK1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total**
Analysis Batch: U010538 — **Prep Batch: 11F3777_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		100		ug/L		06/14/11 00:00	06/14/11 23:09	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*105*		*60 - 150*	*06/14/11 00:00*	*06/14/11 23:09*	*1.00*

Lab Sample ID: 11F3777-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total**
Analysis Batch: U010538 — **Prep Batch: 11F3777_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
GRO as Gasoline	1000	948		ug/L		95	64 - 134

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*118*		*60 - 150*

Lab Sample ID: 11F3777-MS1 — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total**
Analysis Batch: U010538 — **Prep Batch: 11F3777_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
GRO as Gasoline	ND		1000	810		ug/L		81	49 - 161

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*112*		*60 - 150*

Lab Sample ID: 11F3777-MSD1 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total**
Analysis Batch: U010538 — **Prep Batch: 11F3777_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
GRO as Gasoline	ND		1000	951		ug/L		95	49 - 161	16	33

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*116*		*60 - 150*

Lab Sample ID: 11F3777-DUP1 — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total**
Analysis Batch: U010538 — **Prep Batch: 11F3777_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
GRO as Gasoline	ND		ND		ug/L			33

Surrogate	*Duplicate % Recovery*	*Duplicate Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*108*		*60 - 150*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 11F3780-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010577 **Prep Batch: 11F3780_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		100		ug/L		06/15/11 00:00	06/15/11 12:38	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*106*		*60 - 150*	*06/15/11 00:00*	*06/15/11 12:38*	*1.00*

Lab Sample ID: 11F3780-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010577 **Prep Batch: 11F3780_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
GRO as Gasoline	1000	1000		ug/L		100	64 - 134

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*118*		*60 - 150*

Lab Sample ID: 11F3780-MS1 **Client Sample ID: Matrix Spike**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010577 **Prep Batch: 11F3780_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
GRO as Gasoline	ND		1000	891		ug/L		89	49 - 161

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*117*		*60 - 150*

Lab Sample ID: 11F3780-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010577 **Prep Batch: 11F3780_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
GRO as Gasoline	ND		1000	981		ug/L		98	49 - 161	10	33

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*119*		*60 - 150*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Lab Sample ID: 11F3289-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010614 **Prep Batch: 11F3289_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		100		ug/L		06/14/11 05:30	06/15/11 12:25	1.00
TPH - Oil Range	ND		100		ug/L		06/14/11 05:30	06/15/11 12:25	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*53 - 140*	*06/14/11 05:30*	*06/15/11 12:25*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 11F3289-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010614 **Prep Batch: 11F3289_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Diesel			1000	1280	MNR1	ug/L		128	55 - 130		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*94*		*53 - 140*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Lab Sample ID: 11F3214-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010366 **Prep Batch: 11F3214_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500		ug/L		06/13/11 12:30	06/13/11 20:26	1.00
PCB-1221	ND		0.500		ug/L		06/13/11 12:30	06/13/11 20:26	1.00
PCB-1232	ND		0.500		ug/L		06/13/11 12:30	06/13/11 20:26	1.00
PCB-1242	ND		0.500		ug/L		06/13/11 12:30	06/13/11 20:26	1.00
PCB-1248	ND		0.500		ug/L		06/13/11 12:30	06/13/11 20:26	1.00
PCB-1254	ND		0.500		ug/L		06/13/11 12:30	06/13/11 20:26	1.00
PCB-1260	ND		0.500		ug/L		06/13/11 12:30	06/13/11 20:26	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*72*		*17 - 142*	*06/13/11 12:30*	*06/13/11 20:26*	*1.00*
Decachlorobiphenyl	*76*		*10 - 149*	*06/13/11 12:30*	*06/13/11 20:26*	*1.00*

Lab Sample ID: 11F3214-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: U010366 **Prep Batch: 11F3214_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
PCB-1016			5.00	3.88	MNR1	ug/L		78	63 - 120		
PCB-1260			5.00	4.46	MNR1	ug/L		89	36 - 138		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-meta-xylene	*78*		*17 - 142*
Decachlorobiphenyl	*93*		*10 - 149*

Lab Sample ID: 11F3298-BLK1 **Client Sample ID: Method Blank**
Matrix: Oil **Prep Type: Total**
Analysis Batch: U010417 **Prep Batch: 11F3298_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0500		mg/kg		06/15/11 06:33	06/16/11 00:46	1.00
PCB-1221	ND		0.0500		mg/kg		06/15/11 06:33	06/16/11 00:46	1.00
PCB-1232	ND		0.0500		mg/kg		06/15/11 06:33	06/16/11 00:46	1.00
PCB-1242	ND		0.0500		mg/kg		06/15/11 06:33	06/16/11 00:46	1.00
PCB-1248	ND		0.0500		mg/kg		06/15/11 06:33	06/16/11 00:46	1.00
PCB-1254	ND		0.0500		mg/kg		06/15/11 06:33	06/16/11 00:46	1.00
PCB-1260	ND		0.0500		mg/kg		06/15/11 06:33	06/16/11 00:46	1.00

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A (Continued)

Lab Sample ID: 11F3298-BLK1 **Client Sample ID: Method Blank**
Matrix: Oil **Prep Type: Total**
Analysis Batch: U010417 **Prep Batch: 11F3298_P**

Surrogate	Blank % Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-meta-xylene	*114*		*19 - 147*	*06/15/11 06:33*	*06/16/11 00:46*	*1.00*
Decachlorobiphenyl	*132*		*20 - 150*	*06/15/11 06:33*	*06/16/11 00:46*	*1.00*

Lab Sample ID: 11F3298-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Oil **Prep Type: Total**
Analysis Batch: U010417 **Prep Batch: 11F3298_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
PCB-1248	0.500	0.557	MNR1	mg/kg		111	44 - 139

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Tetrachloro-meta-xylene	*116*		*19 - 147*
Decachlorobiphenyl	*134*		*20 - 150*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Lab Sample ID: 11F3422-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3422 **Prep Batch: 11F3422_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 10:52	1.00
Barium	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 10:52	1.00
Cadmium	ND		0.00100		mg/L		06/15/11 06:20	06/15/11 10:52	1.00
Chromium	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 10:52	1.00
Lead	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 10:52	1.00
Selenium	ND		0.0100		mg/L		06/15/11 06:20	06/15/11 10:52	1.00
Silver	ND		0.00500		mg/L		06/15/11 06:20	06/15/11 10:52	1.00

Lab Sample ID: 11F3422-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3422 **Prep Batch: 11F3422_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	0.0500	0.0477		mg/L		95	80 - 120
Barium	2.00	2.17		mg/L		109	80 - 120
Cadmium	0.0500	0.0512		mg/L		102	80 - 120
Chromium	0.200	0.208		mg/L		104	80 - 120
Lead	0.0500	0.0534		mg/L		107	80 - 120
Selenium	0.0500	0.0574		mg/L		115	80 - 120
Silver	0.0500	0.0509		mg/L		102	80 - 120

Lab Sample ID: 11F3422-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3422 **Prep Batch: 11F3422_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	0.0500	0.0504		mg/L		101	80 - 120	6	20
Barium	2.00	2.24		mg/L		112	80 - 120	3	20

Method: SW846 6010B - Total Metals by EPA Method 6010B (Continued)

Lab Sample ID: 11F3422-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3422 **Prep Batch: 11F3422_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Cadmium			0.0500	0.0519		mg/L		104	80 - 120	1	20
Chromium			0.200	0.211		mg/L		105	80 - 120	1	20
Lead			0.0500	0.0548		mg/L		110	80 - 120	3	20
Selenium			0.0500	0.0565		mg/L		113	80 - 120	2	20
Silver			0.0500	0.0530		mg/L		106	80 - 120	4	20

Lab Sample ID: 11F3422-MS1 **Client Sample ID: Matrix Spike**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3422 **Prep Batch: 11F3422_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Arsenic	0.0730		0.0500	0.129		mg/L		112	75 - 125		
Barium	ND		2.00	2.06		mg/L		103	75 - 125		
Cadmium	ND		0.0500	0.0508		mg/L		102	75 - 125		
Chromium	ND		0.200	0.205		mg/L		102	75 - 125		
Lead	ND		0.0500	0.0514		mg/L		103	75 - 125		
Selenium	0.0154		0.0500	0.0638		mg/L		97	75 - 125		
Silver	ND		0.0500	0.0613		mg/L		123	75 - 125		

Lab Sample ID: 11F3422-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3422 **Prep Batch: 11F3422_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	0.0730		0.0500	0.134		mg/L		121	75 - 125	4	20
Barium	ND		2.00	2.06		mg/L		103	75 - 125	0.1	20
Cadmium	ND		0.0500	0.0510		mg/L		102	75 - 125	0.4	20
Chromium	ND		0.200	0.205		mg/L		103	75 - 125	0.3	20
Lead	ND		0.0500	0.0518		mg/L		104	75 - 125	0.8	20
Selenium	0.0154		0.0500	0.0653		mg/L		100	75 - 125	2	20
Silver	ND		0.0500	0.0613		mg/L		123	75 - 125	0	20

Method: SW846 7470A - Mercury by EPA Methods 7470A/7471A

Lab Sample ID: 11F3418-BLK1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3418 **Prep Batch: 11F3418_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/14/11 10:40	06/14/11 16:51	1.00

Lab Sample ID: 11F3418-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total**
Analysis Batch: 11F3418 **Prep Batch: 11F3418_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury			0.00100	0.00102		mg/L		102	80 - 120		

Method: SW846 7470A - Mercury by EPA Methods 7470A/7471A (Continued)

Lab Sample ID: 11F3418-MS1 — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 11F3418 — **Prep Batch: 11F3418_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury	ND		0.00100	0.000898		mg/L		90	75 - 125		

Lab Sample ID: 11F3418-MSD1 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 11F3418 — **Prep Batch: 11F3418_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.000927		mg/L		93	75 - 125	3	20

QC Association Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1697

GCMS Volatiles

Analysis Batch: U010563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2889-BS1	Lab Control Sample	Total	Water	SW846 8260B	11F2889_P
11F2889-BSD1	Lab Control Sample Dup	Total	Water	SW846 8260B	11F2889_P
11F2889-BLK1	Method Blank	Total	Water	SW846 8260B	11F2889_P
NUF1697-03	F-01 A	Total	Water	SW846 8260B	11F2889_P
NUF1697-01	D Baler	Total	Water	SW846 8260B	11F2889_P
11F2889-MS1	D Baler	Total	Water	SW846 8260B	11F2889_P
11F2889-MSD1	D Baler	Total	Water	SW846 8260B	11F2889_P

Analysis Batch: U010570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3984-BS1	Lab Control Sample	Total	Water	SW846 8260B	11F3984_P
11F3984-BLK1	Method Blank	Total	Water	SW846 8260B	11F3984_P
NUF1697-01 - RE1	D Baler	Total	Water	SW846 8260B	11F3984_P
11F3984-MS1	Matrix Spike	Total	Water	SW846 8260B	11F3984_P
11F3984-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11F3984_P

Analysis Batch: U010652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4282-BS1	Lab Control Sample	Total	Oil	SW846 8260B	11F4282_P
11F4282-BSD1	Lab Control Sample Dup	Total	Oil	SW846 8260B	11F4282_P
11F4282-BLK1	Method Blank	Total	Oil	SW846 8260B	11F4282_P
NUF1697-04	Tunnel	Total	Oil	SW846 8260B	11F4282_P
11F4282-MS1	Tunnel	Total	Oil	SW846 8260B	11F4282_P
11F4282-MSD1	Tunnel	Total	Oil	SW846 8260B	11F4282_P

Prep Batch: 11F2889_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F2889-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11F2889-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B	
11F2889-BLK1	Method Blank	Total	Water	EPA 5030B	
NUF1697-03	F-01 A	Total	Water	EPA 5030B	
NUF1697-01	D Baler	Total	Water	EPA 5030B	
11F2889-MS1	D Baler	Total	Water	EPA 5030B	
11F2889-MSD1	D Baler	Total	Water	EPA 5030B	

Prep Batch: 11F3984_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3984-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11F3984-BLK1	Method Blank	Total	Water	EPA 5030B	
NUF1697-01 - RE1	D Baler	Total	Water	EPA 5030B	
11F3984-MS1	Matrix Spike	Total	Water	EPA 5030B	
11F3984-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	

Prep Batch: 11F4282_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4282-BS1	Lab Control Sample	Total	Oil	NO PREP-VOA	
11F4282-BSD1	Lab Control Sample Dup	Total	Oil	NO PREP-VOA	
11F4282-BLK1	Method Blank	Total	Oil	NO PREP-VOA	
NUF1697-04	Tunnel	Total	Oil	NO PREP-VOA	
11F4282-MS1	Tunnel	Total	Oil	NO PREP-VOA	
11F4282-MSD1	Tunnel	Total	Oil	NO PREP-VOA	

QC Association Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1697

GCMS Semivolatiles

Analysis Batch: 11F3515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3515-BS1	Lab Control Sample	Total	Oil	SW846 8270D	11F3515_P
11F3515-BLK1	Method Blank	Total	Oil	SW846 8270D	11F3515_P
NUF1697-04	Tunnel	Total	Oil	SW846 8270D	11F3515_P

Analysis Batch: U010348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3219-BLK1	Method Blank	Total	Water	SW846 8270D	11F3219_P
11F3219-BS1	Lab Control Sample	Total	Water	SW846 8270D	11F3219_P
11F3219-BSD1	Lab Control Sample Dup	Total	Water	SW846 8270D	11F3219_P
NUF1697-03	F-01 A	Total	Water	SW846 8270D	11F3219_P
NUF1697-01	D Baler	Total	Water	SW846 8270D	11F3219_P

Prep Batch: 11F3219_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3219-BLK1	Method Blank	Total	Water	EPA 3510C	
11F3219-BS1	Lab Control Sample	Total	Water	EPA 3510C	
11F3219-BSD1	Lab Control Sample Dup	Total	Water	EPA 3510C	
NUF1697-03	F-01 A	Total	Water	EPA 3510C	
NUF1697-01	D Baler	Total	Water	EPA 3510C	

Prep Batch: 11F3515_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3515-BS1	Lab Control Sample	Total	Oil	EPA 3580A	
11F3515-BLK1	Method Blank	Total	Oil	EPA 3580A	
NUF1697-04	Tunnel	Total	Oil	EPA 3580A	

GC Volatiles

Analysis Batch: U010538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3777-BLK1	Method Blank	Total	Water	SW846 8015B	11F3777_P
NUF1697-03	F-01 A	Total	Water	SW846 8015B	11F3777_P
11F3777-BS1	Lab Control Sample	Total	Water	SW846 8015B	11F3777_P
11F3777-MS1	Matrix Spike	Total	Water	SW846 8015B	11F3777_P
11F3777-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8015B	11F3777_P
11F3777-DUP1	Duplicate	Total	Water	SW846 8015B	11F3777_P

Analysis Batch: U010577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3780-BS1	Lab Control Sample	Total	Water	SW846 8015B	11F3780_P
11F3780-BLK1	Method Blank	Total	Water	SW846 8015B	11F3780_P
NUF1697-01	D Baler	Total	Water	SW846 8015B	11F3780_P
11F3780-MS1	Matrix Spike	Total	Water	SW846 8015B	11F3780_P
11F3780-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8015B	11F3780_P

Prep Batch: 11F3777_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3777-BLK1	Method Blank	Total	Water	EPA 5030B (GC)	
NUF1697-03	F-01 A	Total	Water	EPA 5030B (GC)	
11F3777-BS1	Lab Control Sample	Total	Water	EPA 5030B (GC)	

GC Volatiles (Continued)

Prep Batch: 11F3777_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3777-MS1	Matrix Spike	Total	Water	EPA 5030B (GC)	
11F3777-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B (GC)	
11F3777-DUP1	Duplicate	Total	Water	EPA 5030B (GC)	

Prep Batch: 11F3780_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3780-BS1	Lab Control Sample	Total	Water	EPA 5030B (GC)	
11F3780-BLK1	Method Blank	Total	Water	EPA 5030B (GC)	
NUF1697-01	D Baler	Total	Water	EPA 5030B (GC)	
11F3780-MS1	Matrix Spike	Total	Water	EPA 5030B (GC)	
11F3780-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B (GC)	

GC Semivolatiles

Analysis Batch: U010614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3289-BLK1	Method Blank	Total	Water	SW846 8015B	11F3289_P
11F3289-BS1	Lab Control Sample	Total	Water	SW846 8015B	11F3289_P

Analysis Batch: U010714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUF1697-03 - RE1	F-01 A	Total	Water	SW846 8015B	11F3289_P

Analysis Batch: U010796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUF1697-01 - RE2	D Baler	Total	Water	SW846 8015B	11F3289_P

Prep Batch: 11F3289_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3289-BLK1	Method Blank	Total	Water	EPA 3510C	
11F3289-BS1	Lab Control Sample	Total	Water	EPA 3510C	
NUF1697-03 - RE1	F-01 A	Total	Water	EPA 3510C	
NUF1697-01 - RE2	D Baler	Total	Water	EPA 3510C	

Pesticides

Analysis Batch: U010366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3214-BLK1	Method Blank	Total	Water	SW846 8082A	11F3214_P
11F3214-BS1	Lab Control Sample	Total	Water	SW846 8082A	11F3214_P
NUF1697-03	F-01 A	Total	Water	SW846 8082A	11F3214_P

Analysis Batch: U010417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3298-BLK1	Method Blank	Total	Oil	SW846 8082A	11F3298_P
11F3298-BS1	Lab Control Sample	Total	Oil	SW846 8082A	11F3298_P
NUF1697-05 - RE1	D Baler	Total	Oil	SW846 8082A	11F3298_P

Pesticides (Continued)

Prep Batch: 11F3214_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3214-BLK1	Method Blank	Total	Water	EPA 3510C/3665A	
11F3214-BS1	Lab Control Sample	Total	Water	EPA 3510C/3665A	
NUF1697-03	F-01 A	Total	Water	EPA 3510C/3665A	

Prep Batch: 11F3298_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3298-BLK1	Method Blank	Total	Oil	EPA 3580A/3665A	
11F3298-BS1	Lab Control Sample	Total	Oil	EPA 3580A/3665A	
NUF1697-05 - RE1	D Baler	Total	Oil	EPA 3580A/3665A	

Metals

Analysis Batch: 11F3418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3418-BLK1	Method Blank	Total	Water	SW846 7470A	11F3418_P
11F3418-BS1	Lab Control Sample	Total	Water	SW846 7470A	11F3418_P
11F3418-MS1	Matrix Spike	Total	Water	SW846 7470A	11F3418_P
11F3418-MSD1	Matrix Spike Duplicate	Total	Water	SW846 7470A	11F3418_P
NUF1697-01	D Baler	Total	Water	SW846 7470A	11F3418_P
NUF1697-02	Tunnel	Total	Water	SW846 7470A	11F3418_P
NUF1697-03	F-01 A	Total	Water	SW846 7470A	11F3418_P

Analysis Batch: 11F3422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3422-BLK1	Method Blank	Total	Water	SW846 6010B	11F3422_P
11F3422-BS1	Lab Control Sample	Total	Water	SW846 6010B	11F3422_P
11F3422-BSD1	Lab Control Sample Dup	Total	Water	SW846 6010B	11F3422_P
11F3422-MS1	Matrix Spike	Total	Water	SW846 6010B	11F3422_P
11F3422-MSD1	Matrix Spike Duplicate	Total	Water	SW846 6010B	11F3422_P
NUF1697-01	D Baler	Total	Water	SW846 6010B	11F3422_P
NUF1697-02	Tunnel	Total	Water	SW846 6010B	11F3422_P
NUF1697-03	F-01 A	Total	Water	SW846 6010B	11F3422_P

Prep Batch: 11F3418_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3418-BLK1	Method Blank	Total	Water	EPA 7470	
11F3418-BS1	Lab Control Sample	Total	Water	EPA 7470	
11F3418-MS1	Matrix Spike	Total	Water	EPA 7470	
11F3418-MSD1	Matrix Spike Duplicate	Total	Water	EPA 7470	
NUF1697-01	D Baler	Total	Water	EPA 7470	
NUF1697-02	Tunnel	Total	Water	EPA 7470	
NUF1697-03	F-01 A	Total	Water	EPA 7470	

Prep Batch: 11F3422_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3422-BLK1	Method Blank	Total	Water	EPA 3010A / 6010	
11F3422-BS1	Lab Control Sample	Total	Water	EPA 3010A / 6010	

Metals (Continued)

Prep Batch: 11F3422_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3422-BSD1	Lab Control Sample Dup	Total	Water	EPA 3010A / 6010	
11F3422-MS1	Matrix Spike	Total	Water	EPA 3010A / 6010	
11F3422-MSD1	Matrix Spike Duplicate	Total	Water	EPA 3010A / 6010	
NUF1697-01	D Baler	Total	Water	EPA 3010A / 6010	
NUF1697-02	Tunnel	Total	Water	EPA 3010A / 6010	
NUF1697-03	F-01 A	Total	Water	EPA 3010A / 6010	

Lab Chronicle

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1697

Client Sample ID: D Baler

Lab Sample ID: NUF1697-01
Date Collected: 06/08/11 14:00
Matrix: Water
Date Received: 06/10/11 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11F2889_P	06/14/11 17:55	TSP	TAL NSH
Total	Analysis	SW846 8260B		50.0	U010563	06/15/11 01:46	CMM	TAL NSH
Total	Prep	EPA 5030B	RE1	1.00	11F3984_P	06/15/11 17:59	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U010570	06/15/11 23:47	CMM	TAL NSH
Total	Prep	EPA 3510C		10000	11F3219_P	06/13/11 11:15	JJR	TAL NSH
Total	Analysis	SW846 8270D		5.00	U010348	06/13/11 21:48	KJP	TAL NSH
Total	Prep	EPA 5030B (GC)		1.00	11F3780_P	06/08/11 14:00	GWM	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010577	06/15/11 17:31	TAI.C	TAL NSH
Total	Prep	EPA 3510C	RE2	1000	11F3289_P	06/14/11 05:30	JJR	TAL NSH
Total	Analysis	SW846 8015B	RE2	100	U010796	06/18/11 01:32	GMH	TAL NSH
Total	Prep	EPA 3010A / 6010		1.00	11F3422_P	06/15/11 06:20	ALJ	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3422	06/15/11 12:02	LTB	TAL NSH
Total	Prep	EPA 7470		1.00	11F3418_P	06/14/11 10:40	DEB	TAL NSH
Total	Analysis	SW846 7470A		1.00	11F3418	06/14/11 17:17	DEB	TAL NSH

Client Sample ID: Tunnel

Lab Sample ID: NUF1697-02
Date Collected: 06/08/11 14:30
Matrix: Water
Date Received: 06/10/11 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3010A / 6010		1.00	11F3422_P	06/15/11 06:20	ALJ	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3422	06/15/11 12:18	LTB	TAL NSH
Total	Prep	EPA 7470		1.00	11F3418_P	06/14/11 10:40	DEB	TAL NSH
Total	Analysis	SW846 7470A		1.00	11F3418	06/14/11 17:19	DEB	TAL NSH

Client Sample ID: F-01 A

Lab Sample ID: NUF1697-03
Date Collected: 06/08/11 09:30
Matrix: Water
Date Received: 06/10/11 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11F2889_P	06/14/11 17:55	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010563	06/15/11 01:19	CMM	TAL NSH
Total	Prep	EPA 3510C		0.952	11F3219_P	06/13/11 11:15	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	U010348	06/13/11 21:27	KJP	TAL NSH
Total	Prep	EPA 5030B (GC)		1.00	11F3777_P	06/14/11 16:06	GWM	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010538	06/15/11 02:09	GWM	TAL NSH
Total	Prep	EPA 3510C	RE1	0.952	11F3289_P	06/14/11 05:30	JJR	TAL NSH
Total	Analysis	SW846 8015B	RE1	5.00	U010714	06/17/11 06:12	KKH	TAL NSH
Total	Prep	EPA 3510C/3665A		0.980	11F3214_P	06/13/11 12:30	KDJ	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010366	06/14/11 03:45	RMC	TAL NSH
Total	Prep	EPA 3010A / 6010		1.00	11F3422_P	06/15/11 06:20	ALJ	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3422	06/15/11 12:21	LTB	TAL NSH
Total	Prep	EPA 7470		1.00	11F3418_P	06/14/11 10:40	DEB	TAL NSH
Total	Analysis	SW846 7470A		1.00	11F3418	06/14/11 17:21	DEB	TAL NSH

Lab Chronicle

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1697

Client Sample ID: Tunnel

Lab Sample ID: NUF1697-04
Date Collected: 06/08/11 14:30
Matrix: Oil
Date Received: 06/10/11 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	NO PREP-VOA		1.00	11F4282_P	06/14/11 17:34	JPH	TAL NSH
Total	Analysis	SW846 8260B		500	U010652	06/15/11 02:14	CMM	TAL NSH
Total	Prep	EPA 3580A		0.990	11F3515_P	06/14/11 13:10	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3515	06/15/11 16:57	KJP	TAL NSH

Client Sample ID: D Baler

Lab Sample ID: NUF1697-05
Date Collected: 06/08/11 14:00
Matrix: Oil
Date Received: 06/10/11 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3580A/3665A	RE1	0.971	11F3298_P	06/15/11 06:33	JJR	TAL NSH
Total	Analysis	SW846 8082A	RE1	8.00	U010417	06/16/11 10:03	RMC	TAL NSH

Laboratory References:
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1697

Method	Method Description	Protocol	Laboratory
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
SW846 8270D	Semivolatile Organic Compounds by EPA Method 8270D		TAL NSH
SW846 8015B	Purgeable Petroleum Hydrocarbons		TAL NSH
SW846 8015B	Extractable Petroleum Hydrocarbons		TAL NSH
SW846 8082A	Polychlorinated Biphenyls by EPA Method 8082A		TAL NSH
SW846 6010B	Total Metals by EPA Method 6010B		TAL NSH
SW846 7470A	Mercury by EPA Methods 7470A/7471A		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1697

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RE

NUF1697

Cooler Received/Opened On_06/09/11 @ 08:55

1. Tracking #_____(last 4 digits, FedEx)

Courier: ___FED-EX IR-GUN-97310166

2. Temperature of rep. sample or temp blank when opened: 4.9 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where:_____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# 59915

TEMP, TPH? SAMPLES HAVE 2 LAYERS

* DBALER HAD 1 LITER BIS, TUNNEL HAD 1 LITER BIS

BIS = Broken in shipment

Cooler Receipt Form.doc

LF-1
End of Form

Revised 9/6/07

NUF1697
06/20/11 23:59

Chain of Custody Record

210 West Sand Bank Road
Columbia, IL 62236
(618) 281-7173 Phone
(618) 281-7020 Fax

COC Serial No. 10898 ___ OF ___

Project Name: SB i Festus Project Mgr.: J C
Project Number: 624-1104-0030 Cost Code: J0003
Sampler(s): STAN
Laboratory Name:
Location:

Laboratory Temperature upon Receipt: ___

Sample ID (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	VOC	SVOC	RCRA	Metals	TPH	PCB			MS/MSD	Comments (Field PID)	Lab ID #'s
D Baler	6-8-11	1400	X					8	X	X	X	X	X	X		-	01		
Tunnel	6-8-11	1430	X					6	X	X	X	X	X	X		-	02		
F-01 A	6-8-11	0530	X					7	X	X	X	X	X	X		-	03		

Samples Iced: ☒ Yes ☐ No

Preservatives

- ☑ Volatile Organics ..... Hydrochloric acid (HCl)
- ☐ VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- ☐ TPH ..... Hydrochloric acid and/or Sulfuric acid
- ☑ Metals ..... Nitric acid (HNO_3)
- ☐ Cyanide ..... Sodium hydroxide (NaOH)
- ☐ Other (Specify) .....

Lab Directives:

Requested TAT: ☐ 24-Hour ☐ 2-3 Days ☒ STD ☐ Other ___
E-mail and/or Mail Results to: Email JCARROW@PSUNW.COM
Send Invoice to: SAME
QC Deliverable Requested: ☑ Full QC & Limits ☐ CLP-LIKE ☐ EDD ☐ Other ___
Special Guidelines:
Reporting Limits:
* Special:

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Stan Dale	6-8-11	1600

Received by:

Signature	Date	Time
[illegible]	6/9/11	855

Distribution: WHITE to Lab CANARY to PM
PE-179 (9/10)

Shaded Areas to be Completed by Lab

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUF1717
Client Project/Site: [none]
Client Project Description: Festus, Missouri

For:
PSC Industrial Outsourcing LP (3797)
210 West Sand Bank Rd.
Columbia, IL 62236

Attn: Al Becker

Madonna Myers

Authorized for release by:
06/21/2011 10:56:27 AM

Madonna Myers
Project Manager
madonna.myers@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Sample Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1717

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUF1717-01	F-SD(0-1')	Soil	06/08/11 14:30	06/09/11 08:55
NUF1717-02	F-11	Soil	06/08/11 15:30	06/09/11 08:55
NUF1717-03	F-SU(0-1')	Soil	06/08/11 11:50	06/09/11 08:55
NUF1717-04	F-10	Soil	06/08/11 09:20	06/09/11 08:55
NUF1717-05	F-04A(2-3')	Soil	06/08/11 10:35	06/09/11 08:55
NUF1717-06	F-04A(5-7')	Soil	06/08/11 10:45	06/09/11 08:55
NUF1717-07	F-01B(1-2')	Soil	06/08/11 07:50	06/09/11 08:55
NUF1717-08	F-01B(4-6')	Soil	06/08/11 08:25	06/09/11 08:55

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
PX	Sample for VOA analysis not received in preserved VOA vials or Encore or similar sampling device.
RL1	Reporting limit raised due to sample matrix effects.

GC Semivolatiles

Qualifier	Qualifier Description
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Pesticides

Qualifier	Qualifier Description
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Metals

Qualifier	Qualifier Description
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
R3	The RPD exceeded the acceptance limit due to sample matrix effects.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client Sample ID: F-SD(0-1') Lab Sample ID: NUF1717-01

Date Collected: 06/08/11 14:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 75.3**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.164**	**PX**	0.0644		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Benzene	**0.00281**	**PX**	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Bromochloromethane	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Bromodichloromethane	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Bromoform	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Bromomethane	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
2-Butanone	ND	PX	0.0644		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Carbon disulfide	**0.00677**	**PX**	0.00644		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Carbon Tetrachloride	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Chlorobenzene	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Chlorodibromomethane	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Chloroethane	ND	PX	0.00644		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Chloroform	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Chloromethane	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Dibromomethane	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Dichlorodifluoromethane	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
1,1-Dichloroethane	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
1,2-Dichloroethane	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
cis-1,2-Dichloroethene	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
1,1-Dichloroethene	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
trans-1,2-Dichloroethene	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
1,3-Dichloropropane	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
1,2-Dichloropropane	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
2,2-Dichloropropane	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
cis-1,3-Dichloropropene	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
trans-1,3-Dichloropropene	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
1,1-Dichloropropene	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Ethylbenzene	**0.00568**	**PX**	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
2-Hexanone	ND	PX	0.0644		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Isopropylbenzene	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Methyl tert-Butyl Ether	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Methylene Chloride	**0.0197**	**PX**	0.0129		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
4-Methyl-2-pentanone	ND	PX	0.0644		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Styrene	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Tetrachloroethene	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Toluene	**0.0149**	**PX**	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
1,1,2-Trichloroethane	ND	PX	0.00644		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
1,1,1-Trichloroethane	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Trichloroethene	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Trichlorofluoromethane	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Vinyl chloride	ND	PX	0.00258		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00
Xylenes, total	**0.00854**	**PX**	0.00644		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:18	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*129*		*67 - 138*	*06/14/11 08:00*	*06/16/11 12:18*	*1.00*
Dibromofluoromethane	*103*		*75 - 125*	*06/14/11 08:00*	*06/16/11 12:18*	*1.00*
Toluene-d8	*113*		*76 - 129*	*06/14/11 08:00*	*06/16/11 12:18*	*1.00*
4-Bromofluorobenzene	*147*		*67 - 147*	*06/14/11 08:00*	*06/16/11 12:18*	*1.00*

Client Sample ID: F-SD(0-1') Lab Sample ID: NUF1717-01

Date Collected: 06/08/11 14:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 75.3**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND	PX RL1	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
1,2-Dibromo-3-chloropropane	ND	PX RL1	0.306		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
sec-Butylbenzene	ND	PX RL1	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
n-Butylbenzene	ND	PX RL1	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
tert-Butylbenzene	ND	PX RL1	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
2-Chlorotoluene	ND	PX RL1	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
4-Chlorotoluene	ND	PX RL1	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
1,4-Dichlorobenzene	ND	PX RL1	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
1,3-Dichlorobenzene	ND	RL1 PX	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
1,2-Dichlorobenzene	ND	RL1 PX	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
Hexachlorobutadiene	ND	PX RL1	0.306		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
p-Isopropyltoluene	ND	PX RL1	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
Naphthalene	ND	PX RL1	0.306		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
n-Propylbenzene	ND	PX RL1	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
1,1,2,2-Tetrachloroethane	ND	PX RL1	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
1,2,3-Trichlorobenzene	ND	PX RL1	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
1,2,4-Trichlorobenzene	ND	PX RL1	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
1,2,3-Trichloropropane	ND	PX RL1	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
1,3,5-Trimethylbenzene	ND	RL1 PX	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0
1,2,4-Trimethylbenzene	ND	PX RL1	0.122		mg/kg dry	☼	06/14/11 08:00	06/16/11 12:49	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*116*		*67 - 138*	*06/14/11 08:00*	*06/16/11 12:49*	*50.0*
Dibromofluoromethane	*94*		*75 - 125*	*06/14/11 08:00*	*06/16/11 12:49*	*50.0*
Toluene-d8	*98*		*76 - 129*	*06/14/11 08:00*	*06/16/11 12:49*	*50.0*
4-Bromofluorobenzene	*98*		*67 - 147*	*06/14/11 08:00*	*06/16/11 12:49*	*50.0*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Acenaphthylene	ND		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Anthracene	**0.821**		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Benzo (a) anthracene	**3.35**		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Benzo (a) pyrene	**3.34**		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Benzo (b) fluoranthene	**3.48**		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Benzo (g,h,i) perylene	**2.57**		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Benzo (k) fluoranthene	**3.25**		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
4-Bromophenyl phenyl ether	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Butyl benzyl phthalate	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Carbazole	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
4-Chloro-3-methylphenol	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
4-Chloroaniline	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Bis(2-chloroethoxy)methane	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Bis(2-chloroethyl)ether	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Bis(2-chloroisopropyl)ether	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
2-Chloronaphthalene	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
2-Chlorophenol	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
4-Chlorophenyl phenyl ether	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Chrysene	**4.01**		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Dibenz (a,h) anthracene	ND		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Dibenzofuran	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00

Client Sample ID: F-SD(0-1') Lab Sample ID: NUF1717-01

Date Collected: 06/08/11 14:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 75.3**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
1,4-Dichlorobenzene	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
1,2-Dichlorobenzene	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
1,3-Dichlorobenzene	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
3,3-Dichlorobenzidine	ND		3.53		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
2,4-Dichlorophenol	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Diethyl phthalate	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
2,4-Dimethylphenol	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Dimethyl phthalate	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
4,6-Dinitro-2-methylphenol	ND		4.40		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
2,4-Dinitrophenol	ND		4.40		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
2,6-Dinitrotoluene	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
2,4-Dinitrotoluene	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Di-n-octyl phthalate	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Bis(2-ethylhexyl)phthalate	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Fluoranthene	**8.39**		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Fluorene	ND		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Hexachlorobenzene	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Hexachlorobutadiene	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Hexachlorocyclopentadiene	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Hexachloroethane	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Indeno (1,2,3-cd) pyrene	**2.30**		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Isophorone	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
2-Methylnaphthalene	ND		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
2-Methylphenol	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
3/4-Methylphenol	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Naphthalene	ND		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
3-Nitroaniline	ND		4.40		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
2-Nitroaniline	ND		4.40		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
4-Nitroaniline	ND		4.40		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Nitrobenzene	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
4-Nitrophenol	ND		4.40		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
2-Nitrophenol	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
N-Nitrosodiphenylamine	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
N-Nitrosodi-n-propylamine	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Pentachlorophenol	ND		4.40		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Phenanthrene	**4.49**		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Phenol	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
Pyrene	**6.90**		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
1,2,4-Trichlorobenzene	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
1-Methylnaphthalene	ND		0.354		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
2,4,6-Trichlorophenol	ND		1.76		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00
2,4,5-Trichlorophenol	ND		4.40		mg/kg dry	☼	06/13/11 14:35	06/14/11 21:12	2.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*98*		*18 - 120*	*06/13/11 14:35*	*06/14/11 21:12*	*2.00*
2,4,6-Tribromophenol	*72*		*19 - 120*	*06/13/11 14:35*	*06/14/11 21:12*	*2.00*
Phenol-d5	*80*		*18 - 120*	*06/13/11 14:35*	*06/14/11 21:12*	*2.00*
2-Fluorobiphenyl	*79*		*14 - 120*	*06/13/11 14:35*	*06/14/11 21:12*	*2.00*
2-Fluorophenol	*70*		*17 - 120*	*06/13/11 14:35*	*06/14/11 21:12*	*2.00*
Nitrobenzene-d5	*75*		*17 - 120*	*06/13/11 14:35*	*06/14/11 21:12*	*2.00*

Client Sample Results

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1717

Client Sample ID: F-SD(0-1')

Date Collected: 06/08/11 14:30
Date Received: 06/09/11 08:55

Lab Sample ID: NUF1717-01

Matrix: Soil
Percent Solids: 75.3

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		6.12		mg/kg dry	☼	06/14/11 08:00	06/14/11 17:20	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*80*		*60 - 150*	*06/14/11 08:00*	*06/14/11 17:20*	*50.0*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**602**		104		mg/kg dry	☼	06/14/11 09:00	06/17/11 23:08	10.0
TPH - Oil Range	**1660**		104		mg/kg dry	☼	06/14/11 09:00	06/17/11 23:08	10.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl		*Z3*	*53 - 140*	*06/14/11 09:00*	*06/17/11 23:08*	*10.0*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0436		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:31	1.00
PCB-1221	ND		0.0436		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:31	1.00
PCB-1232	ND		0.0436		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:31	1.00
PCB-1242	ND		0.0436		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:31	1.00
PCB-1248	ND		0.0436		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:31	1.00
PCB-1254	**0.466**		0.0436		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:31	1.00
PCB-1260	ND		0.0436		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:31	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*104*		*19 - 147*	*06/14/11 07:35*	*06/14/11 20:31*	*1.00*
Decachlorobiphenyl	*102*		*20 - 150*	*06/14/11 07:35*	*06/14/11 20:31*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.89**		1.33		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:43	1.00
Barium	**136**		2.65		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:43	1.00
Cadmium	**7.78**		1.33		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:43	1.00
Chromium	**75.8**		1.33		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:43	1.00
Lead	**515**		1.33		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:43	1.00
Selenium	ND		2.65		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:43	1.00
Silver	ND		1.33		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:43	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**		0.13		mg/kg dry	☼	06/13/11 15:40	06/14/11 15:21	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**75.3**		0.500		% dry		06/14/11 11:56	06/15/11 10:18	1.00

Client Sample ID: F-11 Lab Sample ID: NUF1717-02

Date Collected: 06/08/11 15:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 83.8**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	PX	0.0354		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Benzene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Bromobenzene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Bromochloromethane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Bromodichloromethane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Bromoform	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Bromomethane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00354		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
2-Butanone	ND	PX	0.0354		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
sec-Butylbenzene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
n-Butylbenzene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
tert-Butylbenzene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Carbon disulfide	ND	PX	0.00354		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Carbon Tetrachloride	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Chlorobenzene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Chlorodibromomethane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Chloroethane	ND	PX	0.00354		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Chloroform	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Chloromethane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
2-Chlorotoluene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
4-Chlorotoluene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Dibromomethane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,4-Dichlorobenzene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,3-Dichlorobenzene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,2-Dichlorobenzene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Dichlorodifluoromethane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,1-Dichloroethane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,2-Dichloroethane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
cis-1,2-Dichloroethene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,1-Dichloroethene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
trans-1,2-Dichloroethene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,3-Dichloropropane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,2-Dichloropropane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
2,2-Dichloropropane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
cis-1,3-Dichloropropene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
trans-1,3-Dichloropropene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,1-Dichloropropene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Ethylbenzene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Hexachlorobutadiene	ND	PX	0.00354		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
2-Hexanone	ND	PX	0.0354		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Isopropylbenzene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
p-Isopropyltoluene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Methyl tert-Butyl Ether	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Methylene Chloride	ND	PX	0.00708		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
4-Methyl-2-pentanone	ND	PX	0.0354		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Naphthalene	ND	PX	0.00354		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
n-Propylbenzene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Styrene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00

Client Sample ID: F-11 Lab Sample ID: NUF1717-02

Date Collected: 06/08/11 15:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 83.8**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Tetrachloroethene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Toluene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,2,3-Trichlorobenzene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,2,4-Trichlorobenzene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,1,2-Trichloroethane	ND	PX	0.00354		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,1,1-Trichloroethane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Trichloroethene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Trichlorofluoromethane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,2,3-Trichloropropane	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,3,5-Trimethylbenzene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
1,2,4-Trimethylbenzene	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Vinyl chloride	ND	PX	0.00142		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00
Xylenes, total	ND	PX	0.00354		mg/kg dry	☼	06/14/11 08:05	06/16/11 03:05	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*119*		*67 - 138*	*06/14/11 08:05*	*06/16/11 03:05*	*1.00*
Dibromofluoromethane	*102*		*75 - 125*	*06/14/11 08:05*	*06/16/11 03:05*	*1.00*
Toluene-d8	*97*		*76 - 129*	*06/14/11 08:05*	*06/16/11 03:05*	*1.00*
4-Bromofluorobenzene	*99*		*67 - 147*	*06/14/11 08:05*	*06/16/11 03:05*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Acenaphthylene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Anthracene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Benzo (a) anthracene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Benzo (a) pyrene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Benzo (b) fluoranthene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Benzo (g,h,i) perylene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Benzo (k) fluoranthene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
4-Bromophenyl phenyl ether	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Butyl benzyl phthalate	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Carbazole	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
4-Chloro-3-methylphenol	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
4-Chloroaniline	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Bis(2-chloroethoxy)methane	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Bis(2-chloroethyl)ether	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Bis(2-chloroisopropyl)ether	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
2-Chloronaphthalene	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
2-Chlorophenol	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
4-Chlorophenyl phenyl ether	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Chrysene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Dibenz (a,h) anthracene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Dibenzofuran	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Di-n-butyl phthalate	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
1,4-Dichlorobenzene	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
1,2-Dichlorobenzene	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
1,3-Dichlorobenzene	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
3,3-Dichlorobenzidine	ND		0.777		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
2,4-Dichlorophenol	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00

Client Sample ID: F-11 Lab Sample ID: NUF1717-02

Date Collected: 06/08/11 15:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 83.8**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
2,4-Dimethylphenol	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Dimethyl phthalate	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
4,6-Dinitro-2-methylphenol	ND		0.970		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
2,4-Dinitrophenol	ND		0.970		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
2,6-Dinitrotoluene	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
2,4-Dinitrotoluene	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Di-n-octyl phthalate	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Bis(2-ethylhexyl)phthalate	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Fluoranthene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Fluorene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Hexachlorobenzene	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Hexachlorobutadiene	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Hexachlorocyclopentadiene	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Hexachloroethane	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Isophorone	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
2-Methylnaphthalene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
2-Methylphenol	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
3/4-Methylphenol	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Naphthalene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
3-Nitroaniline	ND		0.970		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
2-Nitroaniline	ND		0.970		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
4-Nitroaniline	ND		0.970		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Nitrobenzene	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
4-Nitrophenol	ND		0.970		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
2-Nitrophenol	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
N-Nitrosodiphenylamine	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
N-Nitrosodi-n-propylamine	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Pentachlorophenol	ND		0.970		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Phenanthrene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Phenol	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
Pyrene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
1,2,4-Trichlorobenzene	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
1-Methylnaphthalene	ND		0.0780		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
2,4,6-Trichlorophenol	ND		0.388		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00
2,4,5-Trichlorophenol	ND		0.970		mg/kg dry	☼	06/13/11 14:35	06/14/11 19:48	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*85*		*18 - 120*	*06/13/11 14:35*	*06/14/11 19:48*	*1.00*
2,4,6-Tribromophenol	*62*		*19 - 120*	*06/13/11 14:35*	*06/14/11 19:48*	*1.00*
Phenol-d5	*69*		*18 - 120*	*06/13/11 14:35*	*06/14/11 19:48*	*1.00*
2-Fluorobiphenyl	*62*		*14 - 120*	*06/13/11 14:35*	*06/14/11 19:48*	*1.00*
2-Fluorophenol	*71*		*17 - 120*	*06/13/11 14:35*	*06/14/11 19:48*	*1.00*
Nitrobenzene-d5	*65*		*17 - 120*	*06/13/11 14:35*	*06/14/11 19:48*	*1.00*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		5.54		mg/kg dry	☼	06/14/11 08:05	06/14/11 17:37	50.0

Client Sample ID: F-11 Lab Sample ID: NUF1717-02

Date Collected: 06/08/11 15:30 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 83.8**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*80*		*60 - 150*	*06/14/11 08:05*	*06/14/11 17:37*	*50.0*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**6.54**		4.65		mg/kg dry	☼	06/14/11 09:00	06/17/11 19:08	1.00
TPH - Oil Range	**11.3**		4.65		mg/kg dry	☼	06/14/11 09:00	06/17/11 19:08	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*53 - 140*	*06/14/11 09:00*	*06/17/11 19:08*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0397		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:53	1.00
PCB-1221	ND		0.0397		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:53	1.00
PCB-1232	ND		0.0397		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:53	1.00
PCB-1242	ND		0.0397		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:53	1.00
PCB-1248	ND		0.0397		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:53	1.00
PCB-1254	ND		0.0397		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:53	1.00
PCB-1260	ND		0.0397		mg/kg dry	☼	06/14/11 07:35	06/14/11 20:53	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*88*		*19 - 147*	*06/14/11 07:35*	*06/14/11 20:53*	*1.00*
Decachlorobiphenyl	*112*		*20 - 150*	*06/14/11 07:35*	*06/14/11 20:53*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.75**		1.14		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:57	1.00
Barium	**96.3**		2.29		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:57	1.00
Cadmium	ND		1.14		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:57	1.00
Chromium	**17.4**		1.14		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:57	1.00
Lead	**27.6**		1.14		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:57	1.00
Selenium	ND		2.29		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:57	1.00
Silver	ND		1.14		mg/kg dry	☼	06/13/11 10:43	06/14/11 12:57	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.11		mg/kg dry	☼	06/13/11 15:40	06/14/11 15:24	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**83.8**		0.500		% dry		06/14/11 11:56	06/15/11 10:18	1.00

Client Sample ID: F-SU(0-1') Lab Sample ID: NUF1717-03

Date Collected: 06/08/11 11:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 81**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.167**	**PX**	0.0568		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Benzene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Bromobenzene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Bromochloromethane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Bromodichloromethane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Bromoform	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Bromomethane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00568		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
2-Butanone	ND	PX	0.0568		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
sec-Butylbenzene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
n-Butylbenzene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
tert-Butylbenzene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Carbon disulfide	ND	PX	0.00568		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Carbon Tetrachloride	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Chlorobenzene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Chlorodibromomethane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Chloroethane	ND	PX	0.00568		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Chloroform	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Chloromethane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
2-Chlorotoluene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
4-Chlorotoluene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Dibromomethane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,4-Dichlorobenzene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,3-Dichlorobenzene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,2-Dichlorobenzene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Dichlorodifluoromethane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,1-Dichloroethane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,2-Dichloroethane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
cis-1,2-Dichloroethene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,1-Dichloroethene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
trans-1,2-Dichloroethene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,3-Dichloropropane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,2-Dichloropropane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
2,2-Dichloropropane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
cis-1,3-Dichloropropene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
trans-1,3-Dichloropropene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,1-Dichloropropene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Ethylbenzene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Hexachlorobutadiene	ND	PX	0.00568		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
2-Hexanone	ND	PX	0.0568		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Isopropylbenzene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
p-Isopropyltoluene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Methyl tert-Butyl Ether	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Methylene Chloride	ND	PX	0.0114		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
4-Methyl-2-pentanone	ND	PX	0.0568		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Naphthalene	ND	PX	0.00568		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
n-Propylbenzene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Styrene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00

Client Sample ID: F-SU(0-1') Lab Sample ID: NUF1717-03

Date Collected: 06/08/11 11:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 81**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Tetrachloroethene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Toluene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,2,3-Trichlorobenzene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,2,4-Trichlorobenzene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,1,2-Trichloroethane	ND	PX	0.00568		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,1,1-Trichloroethane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Trichloroethene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Trichlorofluoromethane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,2,3-Trichloropropane	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,3,5-Trimethylbenzene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
1,2,4-Trimethylbenzene	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Vinyl chloride	ND	PX	0.00227		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00
Xylenes, total	ND	PX	0.00568		mg/kg dry	☼	06/14/11 08:08	06/16/11 03:35	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*109*		*67 - 138*	*06/14/11 08:08*	*06/16/11 03:35*	*1.00*
Dibromofluoromethane	*101*		*75 - 125*	*06/14/11 08:08*	*06/16/11 03:35*	*1.00*
Toluene-d8	*96*		*76 - 129*	*06/14/11 08:08*	*06/16/11 03:35*	*1.00*
4-Bromofluorobenzene	*98*		*67 - 147*	*06/14/11 08:08*	*06/16/11 03:35*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Acenaphthylene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Anthracene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Benzo (a) anthracene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Benzo (a) pyrene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Benzo (b) fluoranthene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Benzo (g,h,i) perylene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Benzo (k) fluoranthene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
4-Bromophenyl phenyl ether	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Butyl benzyl phthalate	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Carbazole	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
4-Chloro-3-methylphenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
4-Chloroaniline	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Bis(2-chloroethoxy)methane	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Bis(2-chloroethyl)ether	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Bis(2-chloroisopropyl)ether	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
2-Chloronaphthalene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
2-Chlorophenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
4-Chlorophenyl phenyl ether	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Chrysene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Dibenz (a,h) anthracene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Dibenzofuran	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Di-n-butyl phthalate	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
1,4-Dichlorobenzene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
1,2-Dichlorobenzene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
1,3-Dichlorobenzene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
3,3-Dichlorobenzidine	ND		0.811		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
2,4-Dichlorophenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00

Client Sample ID: F-SU(0-1') Lab Sample ID: NUF1717-03

Date Collected: 06/08/11 11:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 81**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
2,4-Dimethylphenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Dimethyl phthalate	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
4,6-Dinitro-2-methylphenol	ND		1.01		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
2,4-Dinitrophenol	ND		1.01		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
2,6-Dinitrotoluene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
2,4-Dinitrotoluene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Di-n-octyl phthalate	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Bis(2-ethylhexyl)phthalate	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Fluoranthene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Fluorene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Hexachlorobenzene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Hexachlorobutadiene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Hexachlorocyclopentadiene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Hexachloroethane	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Isophorone	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
2-Methylnaphthalene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
2-Methylphenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
3/4-Methylphenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Naphthalene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
3-Nitroaniline	ND		1.01		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
2-Nitroaniline	ND		1.01		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
4-Nitroaniline	ND		1.01		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Nitrobenzene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
4-Nitrophenol	ND		1.01		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
2-Nitrophenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
N-Nitrosodiphenylamine	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
N-Nitrosodi-n-propylamine	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Pentachlorophenol	ND		1.01		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Phenanthrene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Phenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
Pyrene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
1,2,4-Trichlorobenzene	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
1-Methylnaphthalene	ND		0.0815		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
2,4,6-Trichlorophenol	ND		0.405		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00
2,4,5-Trichlorophenol	ND		1.01		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:09	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*94*		*18 - 120*	*06/13/11 14:35*	*06/14/11 20:09*	*1.00*
2,4,6-Tribromophenol	*71*		*19 - 120*	*06/13/11 14:35*	*06/14/11 20:09*	*1.00*
Phenol-d5	*73*		*18 - 120*	*06/13/11 14:35*	*06/14/11 20:09*	*1.00*
2-Fluorobiphenyl	*67*		*14 - 120*	*06/13/11 14:35*	*06/14/11 20:09*	*1.00*
2-Fluorophenol	*72*		*17 - 120*	*06/13/11 14:35*	*06/14/11 20:09*	*1.00*
Nitrobenzene-d5	*69*		*17 - 120*	*06/13/11 14:35*	*06/14/11 20:09*	*1.00*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		5.66		mg/kg dry	☼	06/14/11 08:08	06/14/11 17:54	50.0

Client Sample ID: F-SU(0-1') Lab Sample ID: NUF1717-03

Date Collected: 06/08/11 11:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 81**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*60 - 150*	*06/14/11 08:08*	*06/14/11 17:54*	*50.0*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		4.87		mg/kg dry	☼	06/14/11 09:00	06/17/11 18:44	1.00
TPH - Oil Range	ND		4.87		mg/kg dry	☼	06/14/11 09:00	06/17/11 18:44	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*53 - 140*	*06/14/11 09:00*	*06/17/11 18:44*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0404		mg/kg dry	☼	06/14/11 07:35	06/14/11 21:15	1.00
PCB-1221	ND		0.0404		mg/kg dry	☼	06/14/11 07:35	06/14/11 21:15	1.00
PCB-1232	ND		0.0404		mg/kg dry	☼	06/14/11 07:35	06/14/11 21:15	1.00
PCB-1242	ND		0.0404		mg/kg dry	☼	06/14/11 07:35	06/14/11 21:15	1.00
PCB-1248	ND		0.0404		mg/kg dry	☼	06/14/11 07:35	06/14/11 21:15	1.00
PCB-1254	ND		0.0404		mg/kg dry	☼	06/14/11 07:35	06/14/11 21:15	1.00
PCB-1260	ND		0.0404		mg/kg dry	☼	06/14/11 07:35	06/14/11 21:15	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*86*		*19 - 147*	*06/14/11 07:35*	*06/14/11 21:15*	*1.00*
Decachlorobiphenyl	*110*		*20 - 150*	*06/14/11 07:35*	*06/14/11 21:15*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.47**		1.22		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:00	1.00
Barium	**131**		2.43		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:00	1.00
Cadmium	ND		1.22		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:00	1.00
Chromium	**17.9**		1.22		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:00	1.00
Lead	**12.6**		1.22		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:00	1.00
Selenium	ND		2.43		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:00	1.00
Silver	ND		1.22		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:00	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.12		mg/kg dry	☼	06/13/11 15:40	06/14/11 15:26	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**81.0**		0.500		% dry		06/14/11 11:56	06/15/11 10:18	1.00

Client Sample ID: F-10 Lab Sample ID: NUF1717-04

Date Collected: 06/08/11 09:20 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 78.9**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.06**	**PX**	0.0575		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Benzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Bromobenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Bromochloromethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Bromodichloromethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Bromoform	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Bromomethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00575		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
2-Butanone	**0.127**	**PX**	0.0575		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
sec-Butylbenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
n-Butylbenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
tert-Butylbenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Carbon disulfide	ND	PX	0.00575		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Carbon Tetrachloride	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Chlorobenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Chlorodibromomethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Chloroethane	ND	PX	0.00575		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Chloroform	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Chloromethane	**0.00366**	**PX**	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
2-Chlorotoluene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
4-Chlorotoluene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Dibromomethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,4-Dichlorobenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,3-Dichlorobenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,2-Dichlorobenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Dichlorodifluoromethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,1-Dichloroethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,2-Dichloroethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
cis-1,2-Dichloroethene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,1-Dichloroethene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
trans-1,2-Dichloroethene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,3-Dichloropropane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,2-Dichloropropane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
2,2-Dichloropropane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
cis-1,3-Dichloropropene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
trans-1,3-Dichloropropene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,1-Dichloropropene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Ethylbenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Hexachlorobutadiene	ND	PX	0.00575		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
2-Hexanone	ND	PX	0.0575		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Isopropylbenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
p-Isopropyltoluene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Methyl tert-Butyl Ether	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Methylene Chloride	**0.0531**	**PX**	0.0115		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
4-Methyl-2-pentanone	**0.110**	**PX**	0.0575		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Naphthalene	ND	PX	0.00575		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
n-Propylbenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Styrene	**0.00358**	**PX**	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00

Client Sample ID: F-10 Lab Sample ID: NUF1717-04

Date Collected: 06/08/11 09:20 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 78.9**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Tetrachloroethene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Toluene	**0.00283**	**PX**	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,2,3-Trichlorobenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,2,4-Trichlorobenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,1,2-Trichloroethane	ND	PX	0.00575		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,1,1-Trichloroethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Trichloroethene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Trichlorofluoromethane	**0.00524**	**PX**	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,2,3-Trichloropropane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,3,5-Trimethylbenzene	**0.00261**	**PX**	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
1,2,4-Trimethylbenzene	**0.00730**	**PX**	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Vinyl chloride	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00
Xylenes, total	ND	PX	0.00575		mg/kg dry	☼	06/14/11 08:12	06/16/11 13:20	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*127*		*67 - 138*	*06/14/11 08:12*	*06/16/11 13:20*	*1.00*
Dibromofluoromethane	*100*		*75 - 125*	*06/14/11 08:12*	*06/16/11 13:20*	*1.00*
Toluene-d8	*104*		*76 - 129*	*06/14/11 08:12*	*06/16/11 13:20*	*1.00*
4-Bromofluorobenzene	*123*		*67 - 147*	*06/14/11 08:12*	*06/16/11 13:20*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Acenaphthylene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Anthracene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Benzo (a) anthracene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Benzo (a) pyrene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Benzo (b) fluoranthene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Benzo (g,h,i) perylene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Benzo (k) fluoranthene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
4-Bromophenyl phenyl ether	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Butyl benzyl phthalate	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Carbazole	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
4-Chloro-3-methylphenol	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
4-Chloroaniline	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Bis(2-chloroethoxy)methane	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Bis(2-chloroethyl)ether	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Bis(2-chloroisopropyl)ether	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
2-Chloronaphthalene	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
2-Chlorophenol	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
4-Chlorophenyl phenyl ether	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Chrysene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Dibenz (a,h) anthracene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Dibenzofuran	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Di-n-butyl phthalate	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
1,4-Dichlorobenzene	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
1,2-Dichlorobenzene	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
1,3-Dichlorobenzene	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
3,3-Dichlorobenzidine	ND		42.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
2,4-Dichlorophenol	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00

Client Sample ID: F-10 Lab Sample ID: NUF1717-04

Date Collected: 06/08/11 09:20 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 78.9**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
2,4-Dimethylphenol	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Dimethyl phthalate	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
4,6-Dinitro-2-methylphenol	ND		52.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
2,4-Dinitrophenol	ND		52.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
2,6-Dinitrotoluene	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
2,4-Dinitrotoluene	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Di-n-octyl phthalate	**23.5**		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Bis(2-ethylhexyl)phthalate	**95.1**		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Fluoranthene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Fluorene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Hexachlorobenzene	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Hexachlorobutadiene	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Hexachlorocyclopentadiene	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Hexachloroethane	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Indeno (1,2,3-cd) pyrene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Isophorone	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
2-Methylnaphthalene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
2-Methylphenol	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
3/4-Methylphenol	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Naphthalene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
3-Nitroaniline	ND		52.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
2-Nitroaniline	ND		52.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
4-Nitroaniline	ND		52.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Nitrobenzene	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
4-Nitrophenol	ND		52.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
2-Nitrophenol	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
N-Nitrosodiphenylamine	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
N-Nitrosodi-n-propylamine	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Pentachlorophenol	ND		52.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Phenanthrene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Phenol	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
Pyrene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
1,2,4-Trichlorobenzene	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
1-Methylnaphthalene	ND		4.22		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
2,4,6-Trichlorophenol	ND		21.0		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00
2,4,5-Trichlorophenol	ND		52.4		mg/kg dry	☼	06/13/11 14:35	06/14/11 22:15	5.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*95*		*18 - 120*	*06/13/11 14:35*	*06/14/11 22:15*	*5.00*
2,4,6-Tribromophenol	*43*		*19 - 120*	*06/13/11 14:35*	*06/14/11 22:15*	*5.00*
Phenol-d5	*57*		*18 - 120*	*06/13/11 14:35*	*06/14/11 22:15*	*5.00*
2-Fluorobiphenyl	*70*		*14 - 120*	*06/13/11 14:35*	*06/14/11 22:15*	*5.00*
2-Fluorophenol	*47*		*17 - 120*	*06/13/11 14:35*	*06/14/11 22:15*	*5.00*
Nitrobenzene-d5	*70*		*17 - 120*	*06/13/11 14:35*	*06/14/11 22:15*	*5.00*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		5.76		mg/kg dry	☼	06/14/11 08:12	06/14/11 18:11	50.0

Client Sample ID: F-10 Lab Sample ID: NUF1717-04

Date Collected: 06/08/11 09:20 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 78.9**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*78*		*60 - 150*	*06/14/11 08:12*	*06/14/11 18:11*	*50.0*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**4950**		248		mg/kg dry	☼	06/14/11 09:00	06/16/11 05:16	25.0
TPH - Oil Range	**6070**		248		mg/kg dry	☼	06/14/11 09:00	06/16/11 05:16	25.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl		*Z3*	*53 - 140*	*06/14/11 09:00*	*06/16/11 05:16*	*25.0*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.825		mg/kg dry	☼	06/14/11 07:35	06/15/11 12:52	20.0
PCB-1221	ND		0.825		mg/kg dry	☼	06/14/11 07:35	06/15/11 12:52	20.0
PCB-1232	ND		0.825		mg/kg dry	☼	06/14/11 07:35	06/15/11 12:52	20.0
PCB-1242	**16.9**		0.825		mg/kg dry	☼	06/14/11 07:35	06/15/11 12:52	20.0
PCB-1248	ND		0.825		mg/kg dry	☼	06/14/11 07:35	06/15/11 12:52	20.0
PCB-1254	**3.94**		0.825		mg/kg dry	☼	06/14/11 07:35	06/15/11 12:52	20.0
PCB-1260	ND		0.825		mg/kg dry	☼	06/14/11 07:35	06/15/11 12:52	20.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*40*		*19 - 147*	*06/14/11 07:35*	*06/15/11 12:52*	*20.0*
Decachlorobiphenyl		*Z3*	*20 - 150*	*06/14/11 07:35*	*06/15/11 12:52*	*20.0*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**17.4**		12.4		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:21	10.0
Barium	**2380**		24.8		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:21	10.0
Cadmium	**31.3**		12.4		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:21	10.0
Chromium	**375**		12.4		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:21	10.0
Lead	**3580**		12.4		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:21	10.0
Selenium	ND		24.8		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:21	10.0
Silver	ND		12.4		mg/kg dry	☼	06/13/11 10:43	06/14/11 23:21	10.0

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.6**		0.25		mg/kg dry	☼	06/13/11 15:40	06/15/11 10:27	2.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**78.9**		0.500		% dry		06/14/11 12:21	06/15/11 10:00	1.00

Client Sample ID: F-04A(2-3') Lab Sample ID: NUF1717-05

Date Collected: 06/08/11 10:35 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 75.6**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.152**	**PX**	0.0587		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Benzene	**0.00382**	**PX**	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Bromobenzene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Bromochloromethane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Bromodichloromethane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Bromoform	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Bromomethane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00587		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
2-Butanone	ND	PX	0.0587		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
sec-Butylbenzene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
n-Butylbenzene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
tert-Butylbenzene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Carbon disulfide	ND	PX	0.00587		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Carbon Tetrachloride	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Chlorobenzene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Chlorodibromomethane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Chloroethane	ND	PX	0.00587		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Chloroform	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Chloromethane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
2-Chlorotoluene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
4-Chlorotoluene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Dibromomethane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,4-Dichlorobenzene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,3-Dichlorobenzene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,2-Dichlorobenzene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Dichlorodifluoromethane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,1-Dichloroethane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,2-Dichloroethane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
cis-1,2-Dichloroethene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,1-Dichloroethene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
trans-1,2-Dichloroethene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,3-Dichloropropane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,2-Dichloropropane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
2,2-Dichloropropane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
cis-1,3-Dichloropropene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
trans-1,3-Dichloropropene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,1-Dichloropropene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Ethylbenzene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Hexachlorobutadiene	ND	PX	0.00587		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
2-Hexanone	ND	PX	0.0587		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Isopropylbenzene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
p-Isopropyltoluene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Methyl tert-Butyl Ether	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Methylene Chloride	ND	PX	0.0117		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
4-Methyl-2-pentanone	ND	PX	0.0587		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Naphthalene	ND	PX	0.00587		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
n-Propylbenzene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Styrene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00

Client Sample ID: F-04A(2-3') Lab Sample ID: NUF1717-05

Date Collected: 06/08/11 10:35 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 75.6**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Tetrachloroethene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Toluene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,2,3-Trichlorobenzene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,2,4-Trichlorobenzene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,1,2-Trichloroethane	ND	PX	0.00587		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,1,1-Trichloroethane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Trichloroethene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Trichlorofluoromethane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,2,3-Trichloropropane	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,3,5-Trimethylbenzene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
1,2,4-Trimethylbenzene	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Vinyl chloride	ND	PX	0.00235		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00
Xylenes, total	ND	PX	0.00587		mg/kg dry	☼	06/14/11 08:16	06/16/11 04:06	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*116*		*67 - 138*	*06/14/11 08:16*	*06/16/11 04:06*	*1.00*
Dibromofluoromethane	*103*		*75 - 125*	*06/14/11 08:16*	*06/16/11 04:06*	*1.00*
Toluene-d8	*99*		*76 - 129*	*06/14/11 08:16*	*06/16/11 04:06*	*1.00*
4-Bromofluorobenzene	*101*		*67 - 147*	*06/14/11 08:16*	*06/16/11 04:06*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Acenaphthylene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Anthracene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Benzo (a) anthracene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Benzo (a) pyrene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Benzo (b) fluoranthene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Benzo (g,h,i) perylene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Benzo (k) fluoranthene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
4-Bromophenyl phenyl ether	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Butyl benzyl phthalate	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Carbazole	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
4-Chloro-3-methylphenol	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
4-Chloroaniline	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Bis(2-chloroethoxy)methane	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Bis(2-chloroethyl)ether	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Bis(2-chloroisopropyl)ether	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
2-Chloronaphthalene	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
2-Chlorophenol	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
4-Chlorophenyl phenyl ether	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Chrysene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Dibenz (a,h) anthracene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Dibenzofuran	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Di-n-butyl phthalate	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
1,4-Dichlorobenzene	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
1,2-Dichlorobenzene	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
1,3-Dichlorobenzene	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
3,3-Dichlorobenzidine	ND		0.864		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
2,4-Dichlorophenol	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00

Client Sample ID: F-04A(2-3') Lab Sample ID: NUF1717-05

Date Collected: 06/08/11 10:35 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 75.6**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
2,4-Dimethylphenol	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Dimethyl phthalate	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
4,6-Dinitro-2-methylphenol	ND		1.08		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
2,4-Dinitrophenol	ND		1.08		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
2,6-Dinitrotoluene	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
2,4-Dinitrotoluene	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Di-n-octyl phthalate	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Bis(2-ethylhexyl)phthalate	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Fluoranthene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Fluorene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Hexachlorobenzene	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Hexachlorobutadiene	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Hexachlorocyclopentadiene	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Hexachloroethane	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Isophorone	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
2-Methylnaphthalene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
2-Methylphenol	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
3/4-Methylphenol	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Naphthalene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
3-Nitroaniline	ND		1.08		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
2-Nitroaniline	ND		1.08		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
4-Nitroaniline	ND		1.08		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Nitrobenzene	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
4-Nitrophenol	ND		1.08		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
2-Nitrophenol	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
N-Nitrosodiphenylamine	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
N-Nitrosodi-n-propylamine	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Pentachlorophenol	ND		1.08		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Phenanthrene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Phenol	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
Pyrene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
1,2,4-Trichlorobenzene	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
1-Methylnaphthalene	ND		0.0868		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
2,4,6-Trichlorophenol	ND		0.431		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00
2,4,5-Trichlorophenol	ND		1.08		mg/kg dry	☼	06/13/11 14:35	06/14/11 20:30	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*91*		*18 - 120*	*06/13/11 14:35*	*06/14/11 20:30*	*1.00*
2,4,6-Tribromophenol	*66*		*19 - 120*	*06/13/11 14:35*	*06/14/11 20:30*	*1.00*
Phenol-d5	*69*		*18 - 120*	*06/13/11 14:35*	*06/14/11 20:30*	*1.00*
2-Fluorobiphenyl	*65*		*14 - 120*	*06/13/11 14:35*	*06/14/11 20:30*	*1.00*
2-Fluorophenol	*68*		*17 - 120*	*06/13/11 14:35*	*06/14/11 20:30*	*1.00*
Nitrobenzene-d5	*66*		*17 - 120*	*06/13/11 14:35*	*06/14/11 20:30*	*1.00*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		6.54		mg/kg dry	☼	06/14/11 08:16	06/14/11 18:28	50.0

Client Sample ID: F-04A(2-3') Lab Sample ID: NUF1717-05

Date Collected: 06/08/11 10:35 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 75.6**

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	84		60 - 150	06/14/11 08:16	06/14/11 18:28	50.0

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		5.23		mg/kg dry	☼	06/14/11 09:00	06/17/11 19:32	1.00
TPH - Oil Range	**6.39**		5.23		mg/kg dry	☼	06/14/11 09:00	06/17/11 19:32	1.00

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	102		53 - 140	06/14/11 09:00	06/17/11 19:32	1.00

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0432		mg/kg dry	☼	06/14/11 07:35	06/15/11 20:48	1.00
PCB-1221	ND		0.0432		mg/kg dry	☼	06/14/11 07:35	06/15/11 20:48	1.00
PCB-1232	ND		0.0432		mg/kg dry	☼	06/14/11 07:35	06/15/11 20:48	1.00
PCB-1242	ND		0.0432		mg/kg dry	☼	06/14/11 07:35	06/15/11 20:48	1.00
PCB-1248	ND		0.0432		mg/kg dry	☼	06/14/11 07:35	06/15/11 20:48	1.00
PCB-1254	ND		0.0432		mg/kg dry	☼	06/14/11 07:35	06/15/11 20:48	1.00
PCB-1260	ND		0.0432		mg/kg dry	☼	06/14/11 07:35	06/15/11 20:48	1.00

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-meta-xylene	80		19 - 147	06/14/11 07:35	06/15/11 20:48	1.00
Decachlorobiphenyl	84		20 - 150	06/14/11 07:35	06/15/11 20:48	1.00

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.48**		1.33		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:06	1.00
Barium	**238**		2.66		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:06	1.00
Cadmium	ND		1.33		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:06	1.00
Chromium	**27.1**		1.33		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:06	1.00
Lead	**141**		1.33		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:06	1.00
Selenium	ND		2.66		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:06	1.00
Silver	ND		1.33		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:06	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.32**		0.13		mg/kg dry	☼	06/13/11 15:40	06/14/11 15:38	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**75.6**		0.500		% dry		06/14/11 11:56	06/15/11 10:18	1.00

Client Sample ID: F-04A(5-7') Lab Sample ID: NUF1717-06

Date Collected: 06/08/11 10:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 104.4**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.165**	**PX**	0.0422		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Benzene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Bromobenzene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Bromochloromethane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Bromodichloromethane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Bromoform	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Bromomethane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00422		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
2-Butanone	ND	PX	0.0422		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
sec-Butylbenzene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
n-Butylbenzene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
tert-Butylbenzene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Carbon disulfide	ND	PX	0.00422		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Carbon Tetrachloride	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Chlorobenzene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Chlorodibromomethane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Chloroethane	ND	PX	0.00422		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Chloroform	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Chloromethane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
2-Chlorotoluene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
4-Chlorotoluene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Dibromomethane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,4-Dichlorobenzene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,3-Dichlorobenzene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,2-Dichlorobenzene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Dichlorodifluoromethane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,1-Dichloroethane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,2-Dichloroethane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
cis-1,2-Dichloroethene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,1-Dichloroethene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
trans-1,2-Dichloroethene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,3-Dichloropropane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,2-Dichloropropane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
2,2-Dichloropropane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
cis-1,3-Dichloropropene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
trans-1,3-Dichloropropene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,1-Dichloropropene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Ethylbenzene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Hexachlorobutadiene	ND	PX	0.00422		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
2-Hexanone	ND	PX	0.0422		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Isopropylbenzene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
p-Isopropyltoluene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Methyl tert-Butyl Ether	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Methylene Chloride	ND	PX	0.00845		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
4-Methyl-2-pentanone	ND	PX	0.0422		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Naphthalene	ND	PX	0.00422		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
n-Propylbenzene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Styrene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00

Client Sample ID: F-04A(5-7') Lab Sample ID: NUF1717-06

Date Collected: 06/08/11 10:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 104.4**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Tetrachloroethene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Toluene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,2,3-Trichlorobenzene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,2,4-Trichlorobenzene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,1,2-Trichloroethane	ND	PX	0.00422		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,1,1-Trichloroethane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Trichloroethene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Trichlorofluoromethane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,2,3-Trichloropropane	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,3,5-Trimethylbenzene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
1,2,4-Trimethylbenzene	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Vinyl chloride	ND	PX	0.00169		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00
Xylenes, total	ND	PX	0.00422		mg/kg dry	☼	06/14/11 08:18	06/16/11 04:37	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*115*		*67 - 138*	*06/14/11 08:18*	*06/16/11 04:37*	*1.00*
Dibromofluoromethane	*104*		*75 - 125*	*06/14/11 08:18*	*06/16/11 04:37*	*1.00*
Toluene-d8	*97*		*76 - 129*	*06/14/11 08:18*	*06/16/11 04:37*	*1.00*
4-Bromofluorobenzene	*103*		*67 - 147*	*06/14/11 08:18*	*06/16/11 04:37*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Acenaphthylene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Anthracene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Benzo (a) anthracene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Benzo (a) pyrene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Benzo (b) fluoranthene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Benzo (g,h,i) perylene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Benzo (k) fluoranthene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
4-Bromophenyl phenyl ether	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Butyl benzyl phthalate	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Carbazole	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
4-Chloro-3-methylphenol	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
4-Chloroaniline	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Bis(2-chloroethoxy)methane	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Bis(2-chloroethyl)ether	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Bis(2-chloroisopropyl)ether	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
2-Chloronaphthalene	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
2-Chlorophenol	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
4-Chlorophenyl phenyl ether	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Chrysene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Dibenz (a,h) anthracene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Dibenzofuran	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Di-n-butyl phthalate	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
1,4-Dichlorobenzene	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
1,2-Dichlorobenzene	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
1,3-Dichlorobenzene	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
3,3-Dichlorobenzidine	ND		0.658		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
2,4-Dichlorophenol	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00

Client Sample ID: F-04A(5-7') Lab Sample ID: NUF1717-06

Date Collected: 06/08/11 10:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 104.4**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
2,4-Dimethylphenol	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Dimethyl phthalate	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
4,6-Dinitro-2-methylphenol	ND		0.821		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
2,4-Dinitrophenol	ND		0.821		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
2,6-Dinitrotoluene	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
2,4-Dinitrotoluene	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Di-n-octyl phthalate	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Bis(2-ethylhexyl)phthalate	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Fluoranthene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Fluorene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Hexachlorobenzene	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Hexachlorobutadiene	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Hexachlorocyclopentadiene	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Hexachloroethane	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Isophorone	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
2-Methylnaphthalene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
2-Methylphenol	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
3/4-Methylphenol	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Naphthalene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
3-Nitroaniline	ND		0.821		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
2-Nitroaniline	ND		0.821		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
4-Nitroaniline	ND		0.821		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Nitrobenzene	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
4-Nitrophenol	ND		0.821		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
2-Nitrophenol	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
N-Nitrosodiphenylamine	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
N-Nitrosodi-n-propylamine	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Pentachlorophenol	ND		0.821		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Phenanthrene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Phenol	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
Pyrene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
1,2,4-Trichlorobenzene	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
1-Methylnaphthalene	ND		0.0661		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
2,4,6-Trichlorophenol	ND		0.328		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00
2,4,5-Trichlorophenol	ND		0.821		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:03	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*100*		*18 - 120*	*06/13/11 15:29*	*06/14/11 14:03*	*1.00*
2,4,6-Tribromophenol	*79*		*19 - 120*	*06/13/11 15:29*	*06/14/11 14:03*	*1.00*
Phenol-d5	*68*		*18 - 120*	*06/13/11 15:29*	*06/14/11 14:03*	*1.00*
2-Fluorobiphenyl	*73*		*14 - 120*	*06/13/11 15:29*	*06/14/11 14:03*	*1.00*
2-Fluorophenol	*66*		*17 - 120*	*06/13/11 15:29*	*06/14/11 14:03*	*1.00*
Nitrobenzene-d5	*69*		*17 - 120*	*06/13/11 15:29*	*06/14/11 14:03*	*1.00*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		4.82		mg/kg dry	☼	06/14/11 08:18	06/14/11 18:46	50.0

Client Sample ID: F-04A(5-7') Lab Sample ID: NUF1717-06

Date Collected: 06/08/11 10:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 104.4**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*60 - 150*	*06/14/11 08:18*	*06/14/11 18:46*	*50.0*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**5.61**		3.88		mg/kg dry	☼	06/14/11 09:00	06/17/11 20:44	1.00
TPH - Oil Range	**14.4**		3.88		mg/kg dry	☼	06/14/11 09:00	06/17/11 20:44	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*53 - 140*	*06/14/11 09:00*	*06/17/11 20:44*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0326		mg/kg dry	☼	06/14/11 08:20	06/14/11 19:24	1.00
PCB-1221	ND		0.0326		mg/kg dry	☼	06/14/11 08:20	06/14/11 19:24	1.00
PCB-1232	ND		0.0326		mg/kg dry	☼	06/14/11 08:20	06/14/11 19:24	1.00
PCB-1242	ND		0.0326		mg/kg dry	☼	06/14/11 08:20	06/14/11 19:24	1.00
PCB-1248	ND		0.0326		mg/kg dry	☼	06/14/11 08:20	06/14/11 19:24	1.00
PCB-1254	ND		0.0326		mg/kg dry	☼	06/14/11 08:20	06/14/11 19:24	1.00
PCB-1260	ND		0.0326		mg/kg dry	☼	06/14/11 08:20	06/14/11 19:24	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*78*		*19 - 147*	*06/14/11 08:20*	*06/14/11 19:24*	*1.00*
Decachlorobiphenyl	*84*		*20 - 150*	*06/14/11 08:20*	*06/14/11 19:24*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.17**		0.975		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:10	1.00
Barium	**105**		1.95		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:10	1.00
Cadmium	**1.31**		0.975		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:10	1.00
Chromium	**12.6**		0.975		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:10	1.00
Lead	**164**		0.975		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:10	1.00
Selenium	ND		1.95		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:10	1.00
Silver	ND		0.975		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:10	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.096		mg/kg dry	☼	06/13/11 15:40	06/14/11 15:40	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**104**		0.500		% dry		06/14/11 11:56	06/15/11 10:18	1.00

Client Sample ID: F-01B(1-2') Lab Sample ID: NUF1717-07

Date Collected: 06/08/11 07:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 75.7**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	PX	0.0574		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Benzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Bromobenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Bromochloromethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Bromodichloromethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Bromoform	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Bromomethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00574		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
2-Butanone	ND	PX	0.0574		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
sec-Butylbenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
n-Butylbenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
tert-Butylbenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Carbon disulfide	ND	PX	0.00574		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Carbon Tetrachloride	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Chlorobenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Chlorodibromomethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Chloroethane	ND	PX	0.00574		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Chloroform	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Chloromethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
2-Chlorotoluene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
4-Chlorotoluene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Dibromomethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,4-Dichlorobenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,3-Dichlorobenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,2-Dichlorobenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Dichlorodifluoromethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,1-Dichloroethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,2-Dichloroethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
cis-1,2-Dichloroethene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,1-Dichloroethene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
trans-1,2-Dichloroethene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,3-Dichloropropane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,2-Dichloropropane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
2,2-Dichloropropane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
cis-1,3-Dichloropropene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
trans-1,3-Dichloropropene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,1-Dichloropropene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Ethylbenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Hexachlorobutadiene	ND	PX	0.00574		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
2-Hexanone	ND	PX	0.0574		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Isopropylbenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
p-Isopropyltoluene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Methyl tert-Butyl Ether	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Methylene Chloride	**0.0463**	**PX**	0.0115		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
4-Methyl-2-pentanone	ND	PX	0.0574		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Naphthalene	ND	PX	0.00574		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
n-Propylbenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Styrene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00

Client Sample ID: F-01B(1-2') Lab Sample ID: NUF1717-07

Date Collected: 06/08/11 07:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 75.7**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Tetrachloroethene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Toluene	**0.00472**	**PX**	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,2,3-Trichlorobenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,2,4-Trichlorobenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,1,2-Trichloroethane	ND	PX	0.00574		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,1,1-Trichloroethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Trichloroethene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Trichlorofluoromethane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,2,3-Trichloropropane	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,3,5-Trimethylbenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
1,2,4-Trimethylbenzene	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Vinyl chloride	ND	PX	0.00230		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00
Xylenes, total	ND	PX	0.00574		mg/kg dry	☼	06/14/11 08:20	06/16/11 05:07	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*117*		*67 - 138*	*06/14/11 08:20*	*06/16/11 05:07*	*1.00*
Dibromofluoromethane	*100*		*75 - 125*	*06/14/11 08:20*	*06/16/11 05:07*	*1.00*
Toluene-d8	*99*		*76 - 129*	*06/14/11 08:20*	*06/16/11 05:07*	*1.00*
4-Bromofluorobenzene	*102*		*67 - 147*	*06/14/11 08:20*	*06/16/11 05:07*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Acenaphthylene	**0.267**		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Anthracene	**0.194**		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Benzo (a) anthracene	**0.748**		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Benzo (a) pyrene	**0.962**		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Benzo (b) fluoranthene	**1.38**		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Benzo (g,h,i) perylene	**0.564**		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Benzo (k) fluoranthene	**0.808**		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
4-Bromophenyl phenyl ether	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Butyl benzyl phthalate	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Carbazole	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
4-Chloro-3-methylphenol	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
4-Chloroaniline	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Bis(2-chloroethoxy)methane	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Bis(2-chloroethyl)ether	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Bis(2-chloroisopropyl)ether	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
2-Chloronaphthalene	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
2-Chlorophenol	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
4-Chlorophenyl phenyl ether	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Chrysene	**0.865**		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Dibenz (a,h) anthracene	**0.211**		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Dibenzofuran	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Di-n-butyl phthalate	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
1,4-Dichlorobenzene	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
1,2-Dichlorobenzene	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
1,3-Dichlorobenzene	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
3,3-Dichlorobenzidine	ND		0.865		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
2,4-Dichlorophenol	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00

Client Sample ID: F-01B(1-2') Lab Sample ID: NUF1717-07

Date Collected: 06/08/11 07:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 75.7**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
2,4-Dimethylphenol	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Dimethyl phthalate	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
4,6-Dinitro-2-methylphenol	ND		1.08		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
2,4-Dinitrophenol	ND		1.08		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
2,6-Dinitrotoluene	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
2,4-Dinitrotoluene	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Di-n-octyl phthalate	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Bis(2-ethylhexyl)phthalate	**1.41**		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Fluoranthene	**0.668**		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Fluorene	ND		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Hexachlorobenzene	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Hexachlorobutadiene	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Hexachlorocyclopentadiene	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Hexachloroethane	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Indeno (1,2,3-cd) pyrene	**0.556**		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Isophorone	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
2-Methylnaphthalene	ND		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
2-Methylphenol	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
3/4-Methylphenol	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Naphthalene	ND		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
3-Nitroaniline	ND		1.08		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
2-Nitroaniline	ND		1.08		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
4-Nitroaniline	ND		1.08		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Nitrobenzene	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
4-Nitrophenol	ND		1.08		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
2-Nitrophenol	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
N-Nitrosodiphenylamine	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
N-Nitrosodi-n-propylamine	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Pentachlorophenol	ND		1.08		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Phenanthrene	**0.104**		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Phenol	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
Pyrene	**0.848**		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
1,2,4-Trichlorobenzene	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
1-Methylnaphthalene	ND		0.0869		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
2,4,6-Trichlorophenol	ND		0.432		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00
2,4,5-Trichlorophenol	ND		1.08		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:23	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*70*		*18 - 120*	*06/13/11 15:29*	*06/14/11 14:23*	*1.00*
2,4,6-Tribromophenol	*62*		*19 - 120*	*06/13/11 15:29*	*06/14/11 14:23*	*1.00*
Phenol-d5	*55*		*18 - 120*	*06/13/11 15:29*	*06/14/11 14:23*	*1.00*
2-Fluorobiphenyl	*58*		*14 - 120*	*06/13/11 15:29*	*06/14/11 14:23*	*1.00*
2-Fluorophenol	*47*		*17 - 120*	*06/13/11 15:29*	*06/14/11 14:23*	*1.00*
Nitrobenzene-d5	*56*		*17 - 120*	*06/13/11 15:29*	*06/14/11 14:23*	*1.00*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		6.00		mg/kg dry	☼	06/14/11 08:20	06/14/11 19:03	50.0

Client Sample ID: F-01B(1-2') Lab Sample ID: NUF1717-07

Date Collected: 06/08/11 07:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 75.7**

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	83		60 - 150	06/14/11 08:20	06/14/11 19:03	50.0

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**296**		52.4		mg/kg dry	☼	06/14/11 09:00	06/17/11 22:44	10.0
TPH - Oil Range	**628**		52.4		mg/kg dry	☼	06/14/11 09:00	06/17/11 22:44	10.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl		Z3	53 - 140	06/14/11 09:00	06/17/11 22:44	10.0

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0862		mg/kg dry	☼	06/14/11 08:20	06/15/11 22:58	2.00
PCB-1221	ND		0.0862		mg/kg dry	☼	06/14/11 08:20	06/15/11 22:58	2.00
PCB-1232	ND		0.0862		mg/kg dry	☼	06/14/11 08:20	06/15/11 22:58	2.00
PCB-1242	**1.33**		0.0862		mg/kg dry	☼	06/14/11 08:20	06/15/11 22:58	2.00
PCB-1248	ND		0.0862		mg/kg dry	☼	06/14/11 08:20	06/15/11 22:58	2.00
PCB-1254	**0.730**		0.0862		mg/kg dry	☼	06/14/11 08:20	06/15/11 22:58	2.00
PCB-1260	ND		0.0862		mg/kg dry	☼	06/14/11 08:20	06/15/11 22:58	2.00

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-meta-xylene	100		19 - 147	06/14/11 08:20	06/15/11 22:58	2.00
Decachlorobiphenyl	108		20 - 150	06/14/11 08:20	06/15/11 22:58	2.00

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**11.5**		1.32		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:13	1.00
Barium	**232**		2.64		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:13	1.00
Cadmium	**3.46**		1.32		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:13	1.00
Chromium	**31.2**		1.32		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:13	1.00
Lead	**3980**		1.32		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:13	1.00
Selenium	ND		2.64		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:13	1.00
Silver	ND		1.32		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:13	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.23**		0.13		mg/kg dry	☼	06/13/11 15:40	06/14/11 15:43	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**75.7**		0.500		% dry		06/14/11 11:56	06/15/11 10:18	1.00

Client Sample ID: F-01B(4-6') Lab Sample ID: NUF1717-08

Date Collected: 06/08/11 08:25 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 78.5**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	PX	0.0627		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Benzene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Bromobenzene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Bromochloromethane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Bromodichloromethane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Bromoform	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Bromomethane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00627		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
2-Butanone	ND	PX	0.0627		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
sec-Butylbenzene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
n-Butylbenzene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
tert-Butylbenzene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Carbon disulfide	ND	PX	0.00627		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Carbon Tetrachloride	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Chlorobenzene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Chlorodibromomethane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Chloroethane	ND	PX	0.00627		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Chloroform	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Chloromethane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
2-Chlorotoluene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
4-Chlorotoluene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Dibromomethane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,4-Dichlorobenzene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,3-Dichlorobenzene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,2-Dichlorobenzene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Dichlorodifluoromethane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,1-Dichloroethane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,2-Dichloroethane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
cis-1,2-Dichloroethene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,1-Dichloroethene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
trans-1,2-Dichloroethene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,3-Dichloropropane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,2-Dichloropropane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
2,2-Dichloropropane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
cis-1,3-Dichloropropene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
trans-1,3-Dichloropropene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,1-Dichloropropene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Ethylbenzene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Hexachlorobutadiene	ND	PX	0.00627		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
2-Hexanone	ND	PX	0.0627		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Isopropylbenzene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
p-Isopropyltoluene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Methyl tert-Butyl Ether	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Methylene Chloride	**0.0258**	**PX**	0.0125		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
4-Methyl-2-pentanone	ND	PX	0.0627		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Naphthalene	ND	PX	0.00627		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
n-Propylbenzene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Styrene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00

Client Sample ID: F-01B(4-6') Lab Sample ID: NUF1717-08

Date Collected: 06/08/11 08:25 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 78.5**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Tetrachloroethene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Toluene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,2,3-Trichlorobenzene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,2,4-Trichlorobenzene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,1,2-Trichloroethane	ND	PX	0.00627		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,1,1-Trichloroethane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Trichloroethene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Trichlorofluoromethane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,2,3-Trichloropropane	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,3,5-Trimethylbenzene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
1,2,4-Trimethylbenzene	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Vinyl chloride	ND	PX	0.00251		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00
Xylenes, total	ND	PX	0.00627		mg/kg dry	☼	06/14/11 08:22	06/16/11 05:38	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*118*		*67 - 138*	*06/14/11 08:22*	*06/16/11 05:38*	*1.00*
Dibromofluoromethane	*104*		*75 - 125*	*06/14/11 08:22*	*06/16/11 05:38*	*1.00*
Toluene-d8	*95*		*76 - 129*	*06/14/11 08:22*	*06/16/11 05:38*	*1.00*
4-Bromofluorobenzene	*95*		*67 - 147*	*06/14/11 08:22*	*06/16/11 05:38*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Acenaphthylene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Anthracene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Benzo (a) anthracene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Benzo (a) pyrene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Benzo (b) fluoranthene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Benzo (g,h,i) perylene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Benzo (k) fluoranthene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
4-Bromophenyl phenyl ether	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Butyl benzyl phthalate	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Carbazole	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
4-Chloro-3-methylphenol	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
4-Chloroaniline	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Bis(2-chloroethoxy)methane	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Bis(2-chloroethyl)ether	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Bis(2-chloroisopropyl)ether	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
2-Chloronaphthalene	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
2-Chlorophenol	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
4-Chlorophenyl phenyl ether	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Chrysene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Dibenz (a,h) anthracene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Dibenzofuran	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Di-n-butyl phthalate	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
1,4-Dichlorobenzene	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
1,2-Dichlorobenzene	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
1,3-Dichlorobenzene	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
3,3-Dichlorobenzidine	ND		0.848		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
2,4-Dichlorophenol	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00

Client Sample ID: F-01B(4-6') Lab Sample ID: NUF1717-08

Date Collected: 06/08/11 08:25 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 78.5**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
2,4-Dimethylphenol	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Dimethyl phthalate	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
4,6-Dinitro-2-methylphenol	ND		1.06		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
2,4-Dinitrophenol	ND		1.06		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
2,6-Dinitrotoluene	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
2,4-Dinitrotoluene	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Di-n-octyl phthalate	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Bis(2-ethylhexyl)phthalate	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Fluoranthene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Fluorene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Hexachlorobenzene	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Hexachlorobutadiene	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Hexachlorocyclopentadiene	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Hexachloroethane	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Isophorone	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
2-Methylnaphthalene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
2-Methylphenol	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
3/4-Methylphenol	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Naphthalene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
3-Nitroaniline	ND		1.06		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
2-Nitroaniline	ND		1.06		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
4-Nitroaniline	ND		1.06		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Nitrobenzene	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
4-Nitrophenol	ND		1.06		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
2-Nitrophenol	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
N-Nitrosodiphenylamine	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
N-Nitrosodi-n-propylamine	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Pentachlorophenol	ND		1.06		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Phenanthrene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Phenol	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
Pyrene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
1,2,4-Trichlorobenzene	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
1-Methylnaphthalene	ND		0.0852		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
2,4,6-Trichlorophenol	ND		0.423		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00
2,4,5-Trichlorophenol	ND		1.06		mg/kg dry	☼	06/13/11 15:29	06/14/11 14:43	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*90*		*18 - 120*	*06/13/11 15:29*	*06/14/11 14:43*	*1.00*
2,4,6-Tribromophenol	*73*		*19 - 120*	*06/13/11 15:29*	*06/14/11 14:43*	*1.00*
Phenol-d5	*65*		*18 - 120*	*06/13/11 15:29*	*06/14/11 14:43*	*1.00*
2-Fluorobiphenyl	*66*		*14 - 120*	*06/13/11 15:29*	*06/14/11 14:43*	*1.00*
2-Fluorophenol	*59*		*17 - 120*	*06/13/11 15:29*	*06/14/11 14:43*	*1.00*
Nitrobenzene-d5	*66*		*17 - 120*	*06/13/11 15:29*	*06/14/11 14:43*	*1.00*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		6.01		mg/kg dry	☼	06/14/11 08:22	06/14/11 19:20	50.0

Client Sample ID: F-01B(4-6') Lab Sample ID: NUF1717-08

Date Collected: 06/08/11 08:25 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 78.5**

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	80		60 - 150	06/14/11 08:22	06/14/11 19:20	50.0

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		4.97		mg/kg dry	☼	06/14/11 09:00	06/17/11 21:08	1.00
TPH - Oil Range	ND		4.97		mg/kg dry	☼	06/14/11 09:00	06/17/11 21:08	1.00

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	99		53 - 140	06/14/11 09:00	06/17/11 21:08	1.00

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0414		mg/kg dry	☼	06/14/11 08:20	06/14/11 20:08	1.00
PCB-1221	ND		0.0414		mg/kg dry	☼	06/14/11 08:20	06/14/11 20:08	1.00
PCB-1232	ND		0.0414		mg/kg dry	☼	06/14/11 08:20	06/14/11 20:08	1.00
PCB-1242	ND		0.0414		mg/kg dry	☼	06/14/11 08:20	06/14/11 20:08	1.00
PCB-1248	ND		0.0414		mg/kg dry	☼	06/14/11 08:20	06/14/11 20:08	1.00
PCB-1254	ND		0.0414		mg/kg dry	☼	06/14/11 08:20	06/14/11 20:08	1.00
PCB-1260	ND		0.0414		mg/kg dry	☼	06/14/11 08:20	06/14/11 20:08	1.00

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-meta-xylene	76		19 - 147	06/14/11 08:20	06/14/11 20:08	1.00
Decachlorobiphenyl [2C]	98		20 - 150	06/14/11 08:20	06/14/11 20:08	1.00

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.58**		1.28		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:16	1.00
Barium	**129**		2.57		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:16	1.00
Cadmium	ND		1.28		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:16	1.00
Chromium	**20.4**		1.28		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:16	1.00
Lead	**10.8**		1.28		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:16	1.00
Selenium	ND		2.57		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:16	1.00
Silver	ND		1.28		mg/kg dry	☼	06/13/11 10:43	06/14/11 13:16	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.13		mg/kg dry	☼	06/13/11 15:40	06/14/11 15:45	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**78.5**		0.500		% dry		06/14/11 11:56	06/15/11 10:18	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11F3200-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010605 **Prep Batch: 11F3200_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Benzene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Bromobenzene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Bromochloromethane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Bromodichloromethane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Bromoform	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Bromomethane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,2-Dibromo-3-chloropropane	ND		0.00500		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
2-Butanone	ND		0.0500		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
sec-Butylbenzene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
n-Butylbenzene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
tert-Butylbenzene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Carbon disulfide	ND		0.00500		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Carbon Tetrachloride	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Chlorobenzene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Chlorodibromomethane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Chloroethane	ND		0.00500		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Chloroform	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Chloromethane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
2-Chlorotoluene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
4-Chlorotoluene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,2-Dibromoethane (EDB)	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Dibromomethane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,4-Dichlorobenzene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,3-Dichlorobenzene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,2-Dichlorobenzene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Dichlorodifluoromethane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,1-Dichloroethane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,2-Dichloroethane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
cis-1,2-Dichloroethene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,1-Dichloroethene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
trans-1,2-Dichloroethene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,3-Dichloropropane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,2-Dichloropropane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
2,2-Dichloropropane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
cis-1,3-Dichloropropene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
trans-1,3-Dichloropropene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,1-Dichloropropene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Ethylbenzene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Hexachlorobutadiene	ND		0.00500		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
2-Hexanone	ND		0.0500		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Isopropylbenzene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
p-Isopropyltoluene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Methyl tert-Butyl Ether	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Methylene Chloride	ND		0.0100		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
4-Methyl-2-pentanone	ND		0.0500		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Naphthalene	ND		0.00500		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
n-Propylbenzene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Styrene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3200-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010605 **Prep Batch: 11F3200_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Tetrachloroethene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Toluene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,2,3-Trichlorobenzene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,2,4-Trichlorobenzene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,1,2-Trichloroethane	ND		0.00500		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,1,1-Trichloroethane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Trichloroethene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Trichlorofluoromethane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,2,3-Trichloropropane	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,3,5-Trimethylbenzene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
1,2,4-Trimethylbenzene	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Vinyl chloride	ND		0.00200		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00
Xylenes, total	ND		0.00500		mg/kg wet		06/15/11 00:23	06/15/11 23:31	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*112*		*67 - 138*	*06/15/11 00:23*	*06/15/11 23:31*	*1.00*
Dibromofluoromethane	*100*		*75 - 125*	*06/15/11 00:23*	*06/15/11 23:31*	*1.00*
Toluene-d8	*96*		*76 - 129*	*06/15/11 00:23*	*06/15/11 23:31*	*1.00*
4-Bromofluorobenzene	*96*		*67 - 147*	*06/15/11 00:23*	*06/15/11 23:31*	*1.00*

Lab Sample ID: 11F3200-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010605 **Prep Batch: 11F3200_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	364		ug/kg		146	60 - 150
Benzene	50.0	53.8		ug/kg		108	78 - 126
Bromobenzene	50.0	54.4		ug/kg		109	79 - 126
Bromochloromethane	50.0	54.5		ug/kg		109	78 - 126
Bromodichloromethane	50.0	52.8		ug/kg		106	75 - 129
Bromoform	50.0	51.1		ug/kg		102	74 - 133
Bromomethane	50.0	48.7		ug/kg		97	50 - 150
1,2-Dibromo-3-chloropropane	50.0	58.1		ug/kg		116	62 - 150
2-Butanone	250	330		ug/kg		132	68 - 149
sec-Butylbenzene	50.0	53.1		ug/kg		106	76 - 135
n-Butylbenzene	50.0	55.7		ug/kg		111	73 - 143
tert-Butylbenzene	50.0	52.0		ug/kg		104	80 - 129
Carbon disulfide	50.0	48.4		ug/kg		97	80 - 132
Carbon Tetrachloride	50.0	50.4		ug/kg		101	70 - 138
Chlorobenzene	50.0	51.7		ug/kg		103	80 - 123
Chlorodibromomethane	50.0	58.8		ug/kg		118	80 - 127
Chloroethane	50.0	51.7		ug/kg		103	55 - 150
Chloroform	50.0	51.3		ug/kg		103	70 - 127
Chloromethane	50.0	41.3		ug/kg		83	36 - 137
2-Chlorotoluene	50.0	51.0		ug/kg		102	80 - 130
4-Chlorotoluene	50.0	52.8		ug/kg		106	77 - 132
1,2-Dibromoethane (EDB)	50.0	59.1		ug/kg		118	80 - 131

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3200-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010605 **Prep Batch: 11F3200_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Dibromomethane	50.0	54.6		ug/kg		109	78 - 128
1,4-Dichlorobenzene	50.0	55.4		ug/kg		111	80 - 129
1,3-Dichlorobenzene	50.0	54.8		ug/kg		110	80 - 131
1,2-Dichlorobenzene	50.0	55.5		ug/kg		111	80 - 127
Dichlorodifluoromethane	50.0	28.5		ug/kg		57	30 - 150
1,1-Dichloroethane	50.0	55.3		ug/kg		111	71 - 126
1,2-Dichloroethane	50.0	53.7		ug/kg		107	70 - 139
cis-1,2-Dichloroethene	50.0	55.1		ug/kg		110	75 - 126
1,1-Dichloroethene	50.0	50.3		ug/kg		101	70 - 125
trans-1,2-Dichloroethene	50.0	54.0		ug/kg		108	73 - 128
1,3-Dichloropropane	50.0	58.2		ug/kg		116	79 - 128
1,2-Dichloropropane	50.0	52.4		ug/kg		105	75 - 120
2,2-Dichloropropane	50.0	50.6		ug/kg		101	60 - 139
cis-1,3-Dichloropropene	50.0	60.4		ug/kg		121	74 - 136
trans-1,3-Dichloropropene	50.0	56.5		ug/kg		113	73 - 128
1,1-Dichloropropene	50.0	53.3		ug/kg		107	78 - 125
Ethylbenzene	50.0	51.0		ug/kg		102	79 - 130
Hexachlorobutadiene	50.0	49.4		ug/kg		99	75 - 150
2-Hexanone	250	322		ug/kg		129	65 - 150
Isopropylbenzene	50.0	55.7		ug/kg		111	65 - 121
p-Isopropyltoluene	50.0	52.5		ug/kg		105	76 - 133
Methyl tert-Butyl Ether	50.0	56.8		ug/kg		114	70 - 128
Methylene Chloride	50.0	66.0		ug/kg		132	69 - 140
4-Methyl-2-pentanone	250	303		ug/kg		121	67 - 147
Naphthalene	50.0	63.2		ug/kg		126	72 - 150
n-Propylbenzene	50.0	52.9		ug/kg		106	76 - 133
Styrene	50.0	55.4		ug/kg		111	80 - 140
1,1,1,2-Tetrachloroethane	50.0	52.0		ug/kg		104	80 - 132
1,1,2,2-Tetrachloroethane	50.0	62.7		ug/kg		125	75 - 135
Tetrachloroethene	50.0	47.9		ug/kg		96	76 - 130
Toluene	50.0	49.8		ug/kg		100	76 - 126
1,2,3-Trichlorobenzene	50.0	58.1		ug/kg		116	75 - 150
1,2,4-Trichlorobenzene	50.0	59.0		ug/kg		118	64 - 150
1,1,2-Trichloroethane	50.0	56.3		ug/kg		113	73 - 133
1,1,1-Trichloroethane	50.0	47.6		ug/kg		95	70 - 132
Trichloroethene	50.0	48.5		ug/kg		97	79 - 129
Trichlorofluoromethane	50.0	42.9		ug/kg		86	52 - 148
1,2,3-Trichloropropane	50.0	58.2		ug/kg		116	70 - 125
1,3,5-Trimethylbenzene	50.0	52.2		ug/kg		104	80 - 134
1,2,4-Trimethylbenzene	50.0	51.0		ug/kg		102	80 - 132
Vinyl chloride	50.0	47.4		ug/kg		95	53 - 142
Xylenes, total	150	149		ug/kg		99	80 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*119*		*67 - 138*
Dibromofluoromethane	*102*		*75 - 125*
Toluene-d8	*97*		*76 - 129*
4-Bromofluorobenzene	*99*		*67 - 147*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3200-MS1 **Client Sample ID: F-01B(4-6')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010605 **Prep Batch: 11F3200_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	0.0501	PX	0.315	0.494		mg/kg dry	☼	141	29 - 181
Benzene	ND	PX	0.0631	0.0648		mg/kg dry	☼	103	42 - 141
Bromobenzene	ND	PX	0.0631	0.0669		mg/kg dry	☼	106	19 - 154
Bromochloromethane	ND	PX	0.0631	0.0650		mg/kg dry	☼	103	41 - 146
Bromodichloromethane	ND	PX	0.0631	0.0653		mg/kg dry	☼	103	32 - 155
Bromoform	ND	PX	0.0631	0.0637		mg/kg dry	☼	101	10 - 155
Bromomethane	ND	PX	0.0631	0.0519		mg/kg dry	☼	82	10 - 199
1,2-Dibromo-3-chloropropane	ND	PX	0.0631	0.0679		mg/kg dry	☼	108	10 - 167
2-Butanone	ND	PX	0.315	0.423		mg/kg dry	☼	134	38 - 161
sec-Butylbenzene	ND	PX	0.0631	0.0645		mg/kg dry	☼	102	10 - 170
n-Butylbenzene	ND	PX	0.0631	0.0635		mg/kg dry	☼	101	10 - 183
tert-Butylbenzene	ND	PX	0.0631	0.0645		mg/kg dry	☼	102	11 - 165
Carbon disulfide	ND	PX	0.0631	0.0651		mg/kg dry	☼	103	50 - 136
Carbon Tetrachloride	ND	PX	0.0631	0.0621		mg/kg dry	☼	98	30 - 159
Chlorobenzene	ND	PX	0.0631	0.0636		mg/kg dry	☼	101	25 - 151
Chlorodibromomethane	ND	PX	0.0631	0.0721		mg/kg dry	☼	114	27 - 150
Chloroethane	ND	PX	0.0631	0.0622		mg/kg dry	☼	99	15 - 197
Chloroform	0.00129	PX	0.0631	0.0645		mg/kg dry	☼	100	33 - 148
Chloromethane	ND	PX	0.0631	0.0506		mg/kg dry	☼	80	10 - 166
2-Chlorotoluene	ND	PX	0.0631	0.0628		mg/kg dry	☼	100	25 - 166
4-Chlorotoluene	ND	PX	0.0631	0.0637		mg/kg dry	☼	101	19 - 163
1,2-Dibromoethane (EDB)	ND	PX	0.0631	0.0720		mg/kg dry	☼	114	30 - 155
Dibromomethane	ND	PX	0.0631	0.0675		mg/kg dry	☼	107	30 - 149
1,4-Dichlorobenzene	ND	PX	0.0631	0.0646		mg/kg dry	☼	102	10 - 170
1,3-Dichlorobenzene	ND	PX	0.0631	0.0643		mg/kg dry	☼	102	10 - 173
1,2-Dichlorobenzene	ND	PX	0.0631	0.0642		mg/kg dry	☼	102	10 - 168
Dichlorodifluoromethane	ND	PX	0.0631	0.0378		mg/kg dry	☼	60	10 - 188
1,1-Dichloroethane	ND	PX	0.0631	0.0682		mg/kg dry	☼	108	51 - 135
1,2-Dichloroethane	ND	PX	0.0631	0.0693		mg/kg dry	☼	110	32 - 155
cis-1,2-Dichloroethene	ND	PX	0.0631	0.0678		mg/kg dry	☼	108	32 - 150
1,1-Dichloroethene	ND	PX	0.0631	0.0578		mg/kg dry	☼	92	46 - 141
trans-1,2-Dichloroethene	ND	PX	0.0631	0.0668		mg/kg dry	☼	106	41 - 146
1,3-Dichloropropane	ND	PX	0.0631	0.0706		mg/kg dry	☼	112	35 - 148
1,2-Dichloropropane	ND	PX	0.0631	0.0643		mg/kg dry	☼	102	34 - 139
2,2-Dichloropropane	ND	PX	0.0631	0.0617		mg/kg dry	☼	98	29 - 152
cis-1,3-Dichloropropene	ND	PX	0.0631	0.0727		mg/kg dry	☼	115	23 - 152
trans-1,3-Dichloropropene	ND	PX	0.0631	0.0677		mg/kg dry	☼	107	24 - 151
1,1-Dichloropropene	ND	PX	0.0631	0.0661		mg/kg dry	☼	105	40 - 151
Ethylbenzene	ND	PX	0.0631	0.0618		mg/kg dry	☼	98	21 - 165
Hexachlorobutadiene	ND	PX	0.0631	0.0523		mg/kg dry	☼	83	10 - 173
2-Hexanone	ND	PX	0.315	0.395		mg/kg dry	☼	125	13 - 174
Isopropylbenzene	ND	PX	0.0631	0.0669		mg/kg dry	☼	106	20 - 139
p-Isopropyltoluene	ND	PX	0.0631	0.0575		mg/kg dry	☼	91	10 - 164
Methyl tert-Butyl Ether	ND	PX	0.0631	0.0674		mg/kg dry	☼	107	34 - 154
Methylene Chloride	0.0258	PX	0.0631	0.107		mg/kg dry	☼	128	36 - 163
4-Methyl-2-pentanone	ND	PX	0.315	0.398		mg/kg dry	☼	126	19 - 176
Naphthalene	ND	PX	0.0631	0.0440		mg/kg dry	☼	70	10 - 160
n-Propylbenzene	ND	PX	0.0631	0.0643		mg/kg dry	☼	102	16 - 174
Styrene	ND	PX	0.0631	0.00875		mg/kg dry	☼	14	10 - 177

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F3200-MS1 **Client Sample ID: F-01B(4-6')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010605 **Prep Batch: 11F3200_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	ND	PX	0.0631	0.0635		mg/kg dry	☼	101	31 - 150
1,1,2,2-Tetrachloroethane	ND	PX	0.0631	0.0817		mg/kg dry	☼	130	27 - 163
Tetrachloroethene	ND	PX	0.0631	0.0592		mg/kg dry	☼	94	33 - 155
Toluene	ND	PX	0.0631	0.0628		mg/kg dry	☼	100	45 - 145
1,2,3-Trichlorobenzene	ND	PX	0.0631	0.0480		mg/kg dry	☼	76	10 - 182
1,2,4-Trichlorobenzene	ND	PX	0.0631	0.0509		mg/kg dry	☼	81	10 - 175
1,1,2-Trichloroethane	ND	PX	0.0631	0.0700		mg/kg dry	☼	111	43 - 145
1,1,1-Trichloroethane	ND	PX	0.0631	0.0600		mg/kg dry	☼	95	39 - 148
Trichloroethene	ND	PX	0.0631	0.0588		mg/kg dry	☼	93	39 - 150
Trichlorofluoromethane	ND	PX	0.0631	0.0537		mg/kg dry	☼	85	25 - 174
1,2,3-Trichloropropane	ND	PX	0.0631	0.0733		mg/kg dry	☼	116	10 - 152
1,3,5-Trimethylbenzene	ND	PX	0.0631	0.0602		mg/kg dry	☼	96	38 - 148
1,2,4-Trimethylbenzene	ND	PX	0.0631	0.0532		mg/kg dry	☼	84	22 - 164
Vinyl chloride	ND	PX	0.0631	0.0571		mg/kg dry	☼	91	32 - 163
Xylenes, total	ND	PX	0.189	0.181		mg/kg dry	☼	96	31 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*121*		*67 - 138*
Dibromofluoromethane	*103*		*75 - 125*
Toluene-d8	*98*		*76 - 129*
4-Bromofluorobenzene	*99*		*67 - 147*

Lab Sample ID: 11F4122-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010632 **Prep Batch: 11F4122_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Benzene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Bromobenzene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Bromochloromethane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Bromodichloromethane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Bromoform	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Bromomethane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,2-Dibromo-3-chloropropane	ND		0.00500		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
2-Butanone	ND		0.0500		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
sec-Butylbenzene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
n-Butylbenzene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
tert-Butylbenzene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Carbon disulfide	ND		0.00500		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Carbon Tetrachloride	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Chlorobenzene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Chlorodibromomethane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Chloroethane	ND		0.00500		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Chloroform	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Chloromethane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
2-Chlorotoluene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
4-Chlorotoluene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,2-Dibromoethane (EDB)	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4122-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010632 **Prep Batch: 11F4122_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,4-Dichlorobenzene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,3-Dichlorobenzene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,2-Dichlorobenzene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Dichlorodifluoromethane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,1-Dichloroethane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,2-Dichloroethane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
cis-1,2-Dichloroethene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,1-Dichloroethene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
trans-1,2-Dichloroethene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,3-Dichloropropane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,2-Dichloropropane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
2,2-Dichloropropane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
cis-1,3-Dichloropropene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
trans-1,3-Dichloropropene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,1-Dichloropropene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Ethylbenzene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Hexachlorobutadiene	ND		0.00500		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
2-Hexanone	ND		0.0500		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Isopropylbenzene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
p-Isopropyltoluene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Methyl tert-Butyl Ether	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Methylene Chloride	ND		0.0100		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
4-Methyl-2-pentanone	ND		0.0500		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Naphthalene	ND		0.00500		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
n-Propylbenzene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Styrene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Tetrachloroethene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Toluene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,2,3-Trichlorobenzene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,2,4-Trichlorobenzene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,1,2-Trichloroethane	ND		0.00500		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,1,1-Trichloroethane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Trichloroethene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Trichlorofluoromethane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,2,3-Trichloropropane	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,3,5-Trimethylbenzene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
1,2,4-Trimethylbenzene	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Vinyl chloride	ND		0.00200		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00
Xylenes, total	ND		0.00500		mg/kg wet		06/16/11 00:26	06/16/11 11:48	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*125*		*67 - 138*	*06/16/11 00:26*	*06/16/11 11:48*	*1.00*
Dibromofluoromethane	*100*		*75 - 125*	*06/16/11 00:26*	*06/16/11 11:48*	*1.00*
Toluene-d8	*98*		*76 - 129*	*06/16/11 00:26*	*06/16/11 11:48*	*1.00*
4-Bromofluorobenzene	*100*		*67 - 147*	*06/16/11 00:26*	*06/16/11 11:48*	*1.00*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4122-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010632 **Prep Batch: 11F4122_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.50		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Benzene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Bromobenzene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Bromochloromethane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Bromodichloromethane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Bromoform	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Bromomethane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,2-Dibromo-3-chloropropane	ND		0.250		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
2-Butanone	ND		2.50		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
sec-Butylbenzene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
n-Butylbenzene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
tert-Butylbenzene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Carbon disulfide	ND		0.250		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Carbon Tetrachloride	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Chlorobenzene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Chlorodibromomethane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Chloroethane	ND		0.250		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Chloroform	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Chloromethane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
2-Chlorotoluene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
4-Chlorotoluene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,2-Dibromoethane (EDB)	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Dibromomethane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,4-Dichlorobenzene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,3-Dichlorobenzene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,2-Dichlorobenzene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Dichlorodifluoromethane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,1-Dichloroethane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,2-Dichloroethane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
cis-1,2-Dichloroethene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,1-Dichloroethene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
trans-1,2-Dichloroethene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,3-Dichloropropane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,2-Dichloropropane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
2,2-Dichloropropane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
cis-1,3-Dichloropropene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
trans-1,3-Dichloropropene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,1-Dichloropropene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Ethylbenzene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Hexachlorobutadiene	ND		0.250		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
2-Hexanone	ND		2.50		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Isopropylbenzene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
p-Isopropyltoluene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Methyl tert-Butyl Ether	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Methylene Chloride	ND		0.500		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
4-Methyl-2-pentanone	ND		2.50		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Naphthalene	ND		0.250		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
n-Propylbenzene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Styrene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4122-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010632 **Prep Batch: 11F4122_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,1,2,2-Tetrachloroethane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Tetrachloroethene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Toluene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,2,3-Trichlorobenzene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,2,4-Trichlorobenzene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,1,2-Trichloroethane	ND		0.250		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,1,1-Trichloroethane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Trichloroethene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Trichlorofluoromethane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,2,3-Trichloropropane	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,3,5-Trimethylbenzene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
1,2,4-Trimethylbenzene	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Vinyl chloride	ND		0.100		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0
Xylenes, total	ND		0.250		mg/kg wet		06/16/11 00:26	06/16/11 11:17	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*120*		*67 - 138*	*06/16/11 00:26*	*06/16/11 11:17*	*50.0*
Dibromofluoromethane	*101*		*75 - 125*	*06/16/11 00:26*	*06/16/11 11:17*	*50.0*
Toluene-d8	*96*		*76 - 129*	*06/16/11 00:26*	*06/16/11 11:17*	*50.0*
4-Bromofluorobenzene	*99*		*67 - 147*	*06/16/11 00:26*	*06/16/11 11:17*	*50.0*

Lab Sample ID: 11F4122-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010632 **Prep Batch: 11F4122_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	354		ug/kg		141	60 - 150
Benzene	50.0	54.8		ug/kg		110	78 - 126
Bromobenzene	50.0	56.6		ug/kg		113	79 - 126
Bromochloromethane	50.0	51.0		ug/kg		102	78 - 126
Bromodichloromethane	50.0	54.8		ug/kg		110	75 - 129
Bromoform	50.0	49.3		ug/kg		99	74 - 133
Bromomethane	50.0	51.0		ug/kg		102	50 - 150
1,2-Dibromo-3-chloropropane	50.0	58.6		ug/kg		117	62 - 150
2-Butanone	250	357		ug/kg		143	68 - 149
sec-Butylbenzene	50.0	54.3		ug/kg		109	76 - 135
n-Butylbenzene	50.0	59.1		ug/kg		118	73 - 143
tert-Butylbenzene	50.0	52.8		ug/kg		106	80 - 129
Carbon disulfide	50.0	49.0		ug/kg		98	80 - 132
Carbon Tetrachloride	50.0	52.8		ug/kg		106	70 - 138
Chlorobenzene	50.0	52.5		ug/kg		105	80 - 123
Chlorodibromomethane	50.0	57.6		ug/kg		115	80 - 127
Chloroethane	50.0	50.5		ug/kg		101	55 - 150
Chloroform	50.0	54.6		ug/kg		109	70 - 127
Chloromethane	50.0	42.0		ug/kg		84	36 - 137
2-Chlorotoluene	50.0	55.1		ug/kg		110	80 - 130
4-Chlorotoluene	50.0	56.1		ug/kg		112	77 - 132
1,2-Dibromoethane (EDB)	50.0	60.0		ug/kg		120	80 - 131

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4122-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010632 **Prep Batch: 11F4122_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Dibromomethane	50.0	58.7		ug/kg		117	78 - 128
1,4-Dichlorobenzene	50.0	56.2		ug/kg		112	80 - 129
1,3-Dichlorobenzene	50.0	55.3		ug/kg		111	80 - 131
1,2-Dichlorobenzene	50.0	56.1		ug/kg		112	80 - 127
Dichlorodifluoromethane	50.0	33.5		ug/kg		67	30 - 150
1,1-Dichloroethane	50.0	56.1		ug/kg		112	71 - 126
1,2-Dichloroethane	50.0	62.8		ug/kg		126	70 - 139
cis-1,2-Dichloroethene	50.0	57.1		ug/kg		114	75 - 126
1,1-Dichloroethene	50.0	51.2		ug/kg		102	70 - 125
trans-1,2-Dichloroethene	50.0	57.0		ug/kg		114	73 - 128
1,3-Dichloropropane	50.0	60.9		ug/kg		122	79 - 128
1,2-Dichloropropane	50.0	52.5		ug/kg		105	75 - 120
2,2-Dichloropropane	50.0	55.2		ug/kg		110	60 - 139
cis-1,3-Dichloropropene	50.0	57.5		ug/kg		115	74 - 136
trans-1,3-Dichloropropene	50.0	56.9		ug/kg		114	73 - 128
1,1-Dichloropropene	50.0	56.6		ug/kg		113	78 - 125
Ethylbenzene	50.0	53.6		ug/kg		107	79 - 130
Hexachlorobutadiene	50.0	53.9		ug/kg		108	75 - 150
2-Hexanone	250	334		ug/kg		134	65 - 150
Isopropylbenzene	50.0	57.1		ug/kg		114	65 - 121
p-Isopropyltoluene	50.0	54.7		ug/kg		109	76 - 133
Methyl tert-Butyl Ether	50.0	61.6		ug/kg		123	70 - 128
Methylene Chloride	50.0	67.8		ug/kg		136	69 - 140
4-Methyl-2-pentanone	250	323		ug/kg		129	67 - 147
Naphthalene	50.0	66.0		ug/kg		132	72 - 150
n-Propylbenzene	50.0	56.0		ug/kg		112	76 - 133
Styrene	50.0	56.4		ug/kg		113	80 - 140
1,1,1,2-Tetrachloroethane	50.0	51.7		ug/kg		103	80 - 132
1,1,2,2-Tetrachloroethane	50.0	66.8		ug/kg		134	75 - 135
Tetrachloroethene	50.0	48.8		ug/kg		98	76 - 130
Toluene	50.0	52.2		ug/kg		104	76 - 126
1,2,3-Trichlorobenzene	50.0	59.7		ug/kg		119	75 - 150
1,2,4-Trichlorobenzene	50.0	60.9		ug/kg		122	64 - 150
1,1,2-Trichloroethane	50.0	58.8		ug/kg		118	73 - 133
1,1,1-Trichloroethane	50.0	51.7		ug/kg		103	70 - 132
Trichloroethene	50.0	45.9		ug/kg		92	79 - 129
Trichlorofluoromethane	50.0	47.9		ug/kg		96	52 - 148
1,2,3-Trichloropropane	50.0	62.3		ug/kg		125	70 - 125
1,3,5-Trimethylbenzene	50.0	53.8		ug/kg		108	80 - 134
1,2,4-Trimethylbenzene	50.0	53.1		ug/kg		106	80 - 132
Vinyl chloride	50.0	47.1		ug/kg		94	53 - 142
Xylenes, total	150	158		ug/kg		105	80 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*131*		*67 - 138*
Dibromofluoromethane	*99*		*75 - 125*
Toluene-d8	*97*		*76 - 129*
4-Bromofluorobenzene	*102*		*67 - 147*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4122-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010632 **Prep Batch: 11F4122_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	0.0704		0.243	0.502		mg/kg wet		178	29 - 181
Benzene	0.00287		0.0485	0.0487		mg/kg wet		94	42 - 141
Bromobenzene	ND		0.0485	0.0440		mg/kg wet		91	19 - 154
Bromochloromethane	ND		0.0485	0.0498		mg/kg wet		103	41 - 146
Bromodichloromethane	ND		0.0485	0.0496		mg/kg wet		102	32 - 155
Bromoform	ND		0.0485	0.0442		mg/kg wet		91	10 - 155
Bromomethane	ND		0.0485	0.0383		mg/kg wet		79	10 - 199
1,2-Dibromo-3-chloropropane	ND		0.0485	0.0473		mg/kg wet		97	10 - 167
2-Butanone	ND		0.243	0.381		mg/kg wet		157	38 - 161
sec-Butylbenzene	ND		0.0485	0.0424		mg/kg wet		87	10 - 170
n-Butylbenzene	ND		0.0485	0.0410		mg/kg wet		85	10 - 183
tert-Butylbenzene	ND		0.0485	0.0414		mg/kg wet		85	11 - 165
Carbon disulfide	0.00155		0.0485	0.0400		mg/kg wet		79	50 - 136
Carbon Tetrachloride	ND		0.0485	0.0429		mg/kg wet		88	30 - 159
Chlorobenzene	ND		0.0485	0.0429		mg/kg wet		88	25 - 151
Chlorodibromomethane	ND		0.0485	0.0541		mg/kg wet		111	27 - 150
Chloroethane	ND		0.0485	0.0434		mg/kg wet		89	15 - 197
Chloroform	ND		0.0485	0.0485		mg/kg wet		100	33 - 148
Chloromethane	ND		0.0485	0.0333		mg/kg wet		69	10 - 166
2-Chlorotoluene	ND		0.0485	0.0410		mg/kg wet		84	25 - 166
4-Chlorotoluene	ND		0.0485	0.0412		mg/kg wet		85	19 - 163
1,2-Dibromoethane (EDB)	ND		0.0485	0.0541		mg/kg wet		112	30 - 155
Dibromomethane	ND		0.0485	0.0546		mg/kg wet		112	30 - 149
1,4-Dichlorobenzene	ND		0.0485	0.0385		mg/kg wet		79	10 - 170
1,3-Dichlorobenzene	ND		0.0485	0.0386		mg/kg wet		80	10 - 173
1,2-Dichlorobenzene	ND		0.0485	0.0405		mg/kg wet		83	10 - 168
Dichlorodifluoromethane	ND		0.0485	0.0209		mg/kg wet		43	10 - 188
1,1-Dichloroethane	ND		0.0485	0.0500		mg/kg wet		103	51 - 135
1,2-Dichloroethane	ND		0.0485	0.0578		mg/kg wet		119	32 - 155
cis-1,2-Dichloroethene	ND		0.0485	0.0509		mg/kg wet		105	32 - 150
1,1-Dichloroethene	ND		0.0485	0.0427		mg/kg wet		88	46 - 141
trans-1,2-Dichloroethene	ND		0.0485	0.0493		mg/kg wet		102	41 - 146
1,3-Dichloropropane	ND		0.0485	0.0564		mg/kg wet		116	35 - 148
1,2-Dichloropropane	ND		0.0485	0.0492		mg/kg wet		101	34 - 139
2,2-Dichloropropane	ND		0.0485	0.0435		mg/kg wet		90	29 - 152
cis-1,3-Dichloropropene	ND		0.0485	0.0499		mg/kg wet		103	23 - 152
trans-1,3-Dichloropropene	ND		0.0485	0.0475		mg/kg wet		98	24 - 151
1,1-Dichloropropene	ND		0.0485	0.0471		mg/kg wet		97	40 - 151
Ethylbenzene	ND		0.0485	0.0435		mg/kg wet		90	21 - 165
Hexachlorobutadiene	ND		0.0485	0.0354		mg/kg wet		73	10 - 173
2-Hexanone	ND		0.243	0.358		mg/kg wet		147	13 - 174
Isopropylbenzene	ND		0.0485	0.0456		mg/kg wet		94	20 - 139
p-Isopropyltoluene	ND		0.0485	0.0404		mg/kg wet		83	10 - 164
Methyl tert-Butyl Ether	ND		0.0485	0.0567		mg/kg wet		117	34 - 154
Methylene Chloride	0.00390		0.0485	0.0636		mg/kg wet		123	36 - 163
4-Methyl-2-pentanone	ND		0.243	0.347		mg/kg wet		143	19 - 176
Naphthalene	ND		0.0485	0.0311		mg/kg wet		64	10 - 160
n-Propylbenzene	ND		0.0485	0.0420		mg/kg wet		87	16 - 174
Styrene	ND		0.0485	0.0409		mg/kg wet		84	10 - 177

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4122-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010632 **Prep Batch: 11F4122_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	ND		0.0485	0.0467		mg/kg wet		96	31 - 150
1,1,2,2-Tetrachloroethane	ND		0.0485	0.0637		mg/kg wet		131	27 - 163
Tetrachloroethene	ND		0.0485	0.0394		mg/kg wet		81	33 - 155
Toluene	0.00324		0.0485	0.0452		mg/kg wet		86	45 - 145
1,2,3-Trichlorobenzene	ND		0.0485	0.0293		mg/kg wet		60	10 - 182
1,2,4-Trichlorobenzene	ND		0.0485	0.0291		mg/kg wet		60	10 - 175
1,1,2-Trichloroethane	ND		0.0485	0.0550		mg/kg wet		113	43 - 145
1,1,1-Trichloroethane	ND		0.0485	0.0425		mg/kg wet		88	39 - 148
Trichloroethene	ND		0.0485	0.0404		mg/kg wet		83	39 - 150
Trichlorofluoromethane	ND		0.0485	0.0361		mg/kg wet		74	25 - 174
1,2,3-Trichloropropane	ND		0.0485	0.0600		mg/kg wet		124	10 - 152
1,3,5-Trimethylbenzene	ND		0.0485	0.0417		mg/kg wet		86	38 - 148
1,2,4-Trimethylbenzene	0.00147		0.0485	0.0400		mg/kg wet		79	22 - 164
Vinyl chloride	ND		0.0485	0.0364		mg/kg wet		75	32 - 163
Xylenes, total	0.00262		0.146	0.129		mg/kg wet		87	31 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*132*		*67 - 138*
Dibromofluoromethane	*103*		*75 - 125*
Toluene-d8	*97*		*76 - 129*
4-Bromofluorobenzene	*100*		*67 - 147*

Lab Sample ID: 11F4122-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010632 **Prep Batch: 11F4122_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	0.0704		0.219	0.360		mg/kg wet		132	29 - 181	33	50
Benzene	0.00287		0.0439	0.0344		mg/kg wet		72	42 - 141	34	50
Bromobenzene	ND		0.0439	0.0264		mg/kg wet		60	19 - 154	50	50
Bromochloromethane	ND		0.0439	0.0336		mg/kg wet		77	41 - 146	39	50
Bromodichloromethane	ND		0.0439	0.0335		mg/kg wet		76	32 - 155	39	50
Bromoform	ND		0.0439	0.0331		mg/kg wet		75	10 - 155	29	43
Bromomethane	ND		0.0439	0.0266		mg/kg wet		61	10 - 199	36	46
1,2-Dibromo-3-chloropropane	ND		0.0439	0.0375		mg/kg wet		85	10 - 167	23	45
2-Butanone	ND		0.219	0.303		mg/kg wet		138	38 - 161	23	50
sec-Butylbenzene	ND		0.0439	0.0256		mg/kg wet		58	10 - 170	49	50
n-Butylbenzene	ND		0.0439	0.0242		mg/kg wet		55	10 - 183	52	50
tert-Butylbenzene	ND		0.0439	0.0256		mg/kg wet		58	11 - 165	47	50
Carbon disulfide	0.00155		0.0439	0.0315		mg/kg wet		68	50 - 136	24	48
Carbon Tetrachloride	ND		0.0439	0.0306		mg/kg wet		70	30 - 159	34	44
Chlorobenzene	ND		0.0439	0.0266		mg/kg wet		61	25 - 151	47	50
Chlorodibromomethane	ND		0.0439	0.0372		mg/kg wet		85	27 - 150	37	48
Chloroethane	ND		0.0439	0.0298		mg/kg wet		68	15 - 197	37	50
Chloroform	ND		0.0439	0.0338		mg/kg wet		77	33 - 148	36	50
Chloromethane	ND		0.0439	0.0245		mg/kg wet		56	10 - 166	30	44
2-Chlorotoluene	ND		0.0439	0.0241		mg/kg wet		55	25 - 166	52	50
4-Chlorotoluene	ND		0.0439	0.0240		mg/kg wet		55	19 - 163	53	50
1,2-Dibromoethane (EDB)	ND		0.0439	0.0376		mg/kg wet		86	30 - 155	36	45

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4122-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010632 **Prep Batch: 11F4122_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dibromomethane	ND		0.0439	0.0376		mg/kg wet		86	30 - 149	37	50
1,4-Dichlorobenzene	ND		0.0439	0.0239		mg/kg wet		55	10 - 170	47	50
1,3-Dichlorobenzene	ND		0.0439	0.0233		mg/kg wet		53	10 - 173	49	50
1,2-Dichlorobenzene	ND		0.0439	0.0247		mg/kg wet		56	10 - 168	49	50
Dichlorodifluoromethane	ND		0.0439	0.0155		mg/kg wet		35	10 - 188	29	50
1,1-Dichloroethane	ND		0.0439	0.0361		mg/kg wet		82	51 - 135	32	50
1,2-Dichloroethane	ND		0.0439	0.0391		mg/kg wet		89	32 - 155	39	50
cis-1,2-Dichloroethene	ND		0.0439	0.0351		mg/kg wet		80	32 - 150	37	50
1,1-Dichloroethene	ND		0.0439	0.0300		mg/kg wet		68	46 - 141	35	50
trans-1,2-Dichloroethene	ND		0.0439	0.0332		mg/kg wet		76	41 - 146	39	40
1,3-Dichloropropane	ND		0.0439	0.0389		mg/kg wet		89	35 - 148	37	42
1,2-Dichloropropane	ND		0.0439	0.0333		mg/kg wet		76	34 - 139	38	50
2,2-Dichloropropane	ND		0.0439	0.0309		mg/kg wet		71	29 - 152	34	39
cis-1,3-Dichloropropene	ND		0.0439	0.0343		mg/kg wet		78	23 - 152	37	50
trans-1,3-Dichloropropene	ND		0.0439	0.0325		mg/kg wet		74	24 - 151	37	48
1,1-Dichloropropene	ND		0.0439	0.0317		mg/kg wet		72	40 - 151	39	50
Ethylbenzene	ND		0.0439	0.0268		mg/kg wet		61	21 - 165	48	50
Hexachlorobutadiene	ND		0.0439	0.0214		mg/kg wet		49	10 - 173	49	50
2-Hexanone	ND		0.219	0.269		mg/kg wet		123	13 - 174	28	50
Isopropylbenzene	ND		0.0439	0.0281		mg/kg wet		64	20 - 139	47	50
p-Isopropyltoluene	ND		0.0439	0.0244		mg/kg wet		56	10 - 164	49	50
Methyl tert-Butyl Ether	ND		0.0439	0.0398		mg/kg wet		91	34 - 154	35	50
Methylene Chloride	0.00390		0.0439	0.0459		mg/kg wet		96	36 - 163	32	50
4-Methyl-2-pentanone	ND		0.219	0.255		mg/kg wet		116	19 - 176	31	45
Naphthalene	ND		0.0439	0.0216		mg/kg wet		49	10 - 160	36	50
n-Propylbenzene	ND		0.0439	0.0248		mg/kg wet		57	16 - 174	52	50
Styrene	ND		0.0439	0.0247		mg/kg wet		56	10 - 177	49	50
1,1,1,2-Tetrachloroethane	ND		0.0439	0.0298		mg/kg wet		68	31 - 150	44	50
1,1,2,2-Tetrachloroethane	ND		0.0439	0.0444		mg/kg wet		101	27 - 163	36	45
Tetrachloroethene	ND		0.0439	0.0249		mg/kg wet		57	33 - 155	45	50
Toluene	0.00324		0.0439	0.0310		mg/kg wet		63	45 - 145	37	50
1,2,3-Trichlorobenzene	ND		0.0439	0.0194		mg/kg wet		44	10 - 182	40	50
1,2,4-Trichlorobenzene	ND		0.0439	0.0197		mg/kg wet		45	10 - 175	39	50
1,1,2-Trichloroethane	ND		0.0439	0.0404		mg/kg wet		92	43 - 145	31	50
1,1,1-Trichloroethane	ND		0.0439	0.0299		mg/kg wet		68	39 - 148	35	41
Trichloroethene	ND		0.0439	0.0261		mg/kg wet		59	39 - 150	43	50
Trichlorofluoromethane	ND		0.0439	0.0266		mg/kg wet		61	25 - 174	30	47
1,2,3-Trichloropropane	ND		0.0439	0.0416		mg/kg wet		95	10 - 152	36	47
1,3,5-Trimethylbenzene	ND		0.0439	0.0249		mg/kg wet		57	38 - 148	51	50
1,2,4-Trimethylbenzene	0.00147		0.0439	0.0245		mg/kg wet		53	22 - 164	48	50
Vinyl chloride	ND		0.0439	0.0267		mg/kg wet		61	32 - 163	31	39
Xylenes, total	0.00262		0.132	0.0788		mg/kg wet		58	31 - 159	48	50

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*126*		*67 - 138*
Dibromofluoromethane	*103*		*75 - 125*
Toluene-d8	*99*		*76 - 129*
4-Bromofluorobenzene	*98*		*67 - 147*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Lab Sample ID: 11F3181-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3181 **Prep Batch: 11F3181_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Acenaphthylene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Anthracene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Benzo (a) anthracene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Benzo (a) pyrene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Benzo (b) fluoranthene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Benzo (g,h,i) perylene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Benzo (k) fluoranthene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
4-Bromophenyl phenyl ether	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Butyl benzyl phthalate	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Carbazole	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
4-Chloro-3-methylphenol	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
4-Chloroaniline	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Bis(2-chloroethoxy)methane	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Bis(2-chloroethyl)ether	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Bis(2-chloroisopropyl)ether	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
2-Chloronaphthalene	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
2-Chlorophenol	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
4-Chlorophenyl phenyl ether	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Chrysene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Dibenz (a,h) anthracene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Dibenzofuran	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Di-n-butyl phthalate	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
1,4-Dichlorobenzene	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
1,2-Dichlorobenzene	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
1,3-Dichlorobenzene	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
3,3-Dichlorobenzidine	ND		0.667		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
2,4-Dichlorophenol	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Diethyl phthalate	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
2,4-Dimethylphenol	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Dimethyl phthalate	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
4,6-Dinitro-2-methylphenol	ND		0.833		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
2,4-Dinitrophenol	ND		0.833		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
2,6-Dinitrotoluene	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
2,4-Dinitrotoluene	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Di-n-octyl phthalate	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Bis(2-ethylhexyl)phthalate	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Fluoranthene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Fluorene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Hexachlorobenzene	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Hexachlorobutadiene	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Hexachlorocyclopentadiene	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Hexachloroethane	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Isophorone	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
2-Methylnaphthalene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
2-Methylphenol	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
3/4-Methylphenol	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Naphthalene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3181-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3181 **Prep Batch: 11F3181_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.833		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
2-Nitroaniline	ND		0.833		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
4-Nitroaniline	ND		0.833		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Nitrobenzene	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
4-Nitrophenol	ND		0.833		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
2-Nitrophenol	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
N-Nitrosodiphenylamine	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
N-Nitrosodi-n-propylamine	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Pentachlorophenol	ND		0.833		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Phenanthrene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Phenol	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Pyrene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
Pyridine	ND		0.667		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
1,2,4-Trichlorobenzene	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
1-Methylnaphthalene	ND		0.0670		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
2,4,6-Trichlorophenol	ND		0.333		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00
2,4,5-Trichlorophenol	ND		0.833		mg/kg wet		06/13/11 15:29	06/14/11 12:42	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*118*		*18 - 120*	*06/13/11 15:29*	*06/14/11 12:42*	*1.00*
2,4,6-Tribromophenol	*91*		*19 - 120*	*06/13/11 15:29*	*06/14/11 12:42*	*1.00*
Phenol-d5	*88*		*18 - 120*	*06/13/11 15:29*	*06/14/11 12:42*	*1.00*
2-Fluorobiphenyl	*91*		*14 - 120*	*06/13/11 15:29*	*06/14/11 12:42*	*1.00*
2-Fluorophenol	*85*		*17 - 120*	*06/13/11 15:29*	*06/14/11 12:42*	*1.00*
Nitrobenzene-d5	*87*		*17 - 120*	*06/13/11 15:29*	*06/14/11 12:42*	*1.00*

Lab Sample ID: 11F3181-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3181 **Prep Batch: 11F3181_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.67	1.39		mg/kg wet		83	49 - 120
Acenaphthylene	1.67	1.23		mg/kg wet		74	52 - 120
Anthracene	1.67	1.53		mg/kg wet		92	58 - 120
Benzo (a) anthracene	1.67	1.49		mg/kg wet		89	57 - 120
Benzo (a) pyrene	1.67	1.59		mg/kg wet		96	55 - 120
Benzo (b) fluoranthene	1.67	1.83		mg/kg wet		110	51 - 123
Benzo (g,h,i) perylene	1.67	1.52		mg/kg wet		91	49 - 121
Benzo (k) fluoranthene	1.67	1.50		mg/kg wet		90	42 - 129
4-Bromophenyl phenyl ether	1.67	1.65		mg/kg wet		99	49 - 120
Butyl benzyl phthalate	1.67	1.56		mg/kg wet		93	59 - 124
Carbazole	1.67	1.57		mg/kg wet		94	54 - 120
4-Chloro-3-methylphenol	1.67	1.39		mg/kg wet		84	49 - 120
4-Chloroaniline	1.67	1.17		mg/kg wet		70	41 - 120
Bis(2-chloroethoxy)methane	1.67	1.22		mg/kg wet		73	37 - 120
Bis(2-chloroethyl)ether	1.67	1.34		mg/kg wet		80	29 - 120
Bis(2-chloroisopropyl)ether	1.67	1.41		mg/kg wet		85	28 - 120
2-Chloronaphthalene	1.67	1.29		mg/kg wet		77	45 - 120
2-Chlorophenol	1.67	1.44		mg/kg wet		87	42 - 120

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3181-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3181 **Prep Batch: 11F3181_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4-Chlorophenyl phenyl ether	1.67	1.58		mg/kg wet		95	52 - 120
Chrysene	1.67	1.47		mg/kg wet		88	55 - 120
Dibenz (a,h) anthracene	1.67	1.62		mg/kg wet		97	50 - 123
Dibenzofuran	1.67	1.47		mg/kg wet		88	54 - 120
Di-n-butyl phthalate	1.67	1.62		mg/kg wet		97	58 - 120
1,4-Dichlorobenzene	1.67	1.20		mg/kg wet		72	15 - 120
1,2-Dichlorobenzene	1.67	1.22		mg/kg wet		73	17 - 120
1,3-Dichlorobenzene	1.67	1.22		mg/kg wet		73	13 - 120
3,3-Dichlorobenzidine	1.67	1.51		mg/kg wet		91	54 - 120
2,4-Dichlorophenol	1.67	1.21		mg/kg wet		73	43 - 120
Diethyl phthalate	1.67	1.56		mg/kg wet		94	52 - 120
2,4-Dimethylphenol	1.67	1.23		mg/kg wet		74	47 - 120
Dimethyl phthalate	1.67	1.57		mg/kg wet		94	55 - 120
4,6-Dinitro-2-methylphenol	1.67	1.70		mg/kg wet		102	27 - 134
2,4-Dinitrophenol	1.67	1.84		mg/kg wet		111	15 - 145
2,6-Dinitrotoluene	1.67	1.50		mg/kg wet		90	56 - 120
2,4-Dinitrotoluene	1.67	1.55		mg/kg wet		93	55 - 122
Di-n-octyl phthalate	1.67	1.65		mg/kg wet		99	48 - 131
Bis(2-ethylhexyl)phthalate	1.67	1.47		mg/kg wet		88	51 - 127
Fluoranthene	1.67	1.61		mg/kg wet		96	58 - 120
Fluorene	1.67	1.51		mg/kg wet		90	54 - 120
Hexachlorobenzene	1.67	1.67		mg/kg wet		100	56 - 120
Hexachlorobutadiene	1.67	1.34		mg/kg wet		80	19 - 120
Hexachlorocyclopentadiene	1.67	0.760		mg/kg wet		46	11 - 120
Hexachloroethane	1.67	1.44		mg/kg wet		86	14 - 120
Indeno (1,2,3-cd) pyrene	1.67	1.59		mg/kg wet		95	50 - 122
Isophorone	1.67	1.15		mg/kg wet		69	43 - 120
2-Methylnaphthalene	1.67	1.18		mg/kg wet		71	36 - 120
2-Methylphenol	1.67	1.28		mg/kg wet		77	47 - 120
3/4-Methylphenol	1.67	1.30		mg/kg wet		78	53 - 135
Naphthalene	1.67	1.16		mg/kg wet		69	28 - 120
3-Nitroaniline	1.67	1.60		mg/kg wet		96	54 - 120
2-Nitroaniline	1.67	1.57		mg/kg wet		94	59 - 120
4-Nitroaniline	1.67	1.61		mg/kg wet		96	55 - 121
Nitrobenzene	1.67	1.20		mg/kg wet		72	30 - 120
4-Nitrophenol	1.67	1.70		mg/kg wet		102	44 - 133
2-Nitrophenol	1.67	1.24		mg/kg wet		75	36 - 120
N-Nitrosodiphenylamine	1.67	1.82		mg/kg wet		109	56 - 120
N-Nitrosodi-n-propylamine	1.67	1.48		mg/kg wet		89	45 - 120
Pentachlorophenol	1.67	1.69		mg/kg wet		102	42 - 135
Phenanthrene	1.67	1.58		mg/kg wet		95	56 - 120
Phenol	1.67	1.42		mg/kg wet		85	45 - 120
Pyrene	1.67	1.51		mg/kg wet		91	56 - 120
Pyridine	1.67	0.978		mg/kg wet		59	26 - 120
1,2,4-Trichlorobenzene	1.67	1.06		mg/kg wet		64	22 - 120
1-Methylnaphthalene	1.67	1.06		mg/kg wet		63	36 - 120
2,4,6-Trichlorophenol	1.67	1.47		mg/kg wet		88	50 - 120
2,4,5-Trichlorophenol	1.67	1.38		mg/kg wet		83	54 - 120

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3181-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3181 **Prep Batch: 11F3181_P**

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*96*		*18 - 120*
2,4,6-Tribromophenol	*79*		*19 - 120*
Phenol-d5	*75*		*18 - 120*
2-Fluorobiphenyl	*76*		*14 - 120*
2-Fluorophenol	*69*		*17 - 120*
Nitrobenzene-d5	*63*		*17 - 120*

Lab Sample ID: 11F3181-MS1 **Client Sample ID: F-04A(5-7')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3181 **Prep Batch: 11F3181_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	ND		1.59	1.00		mg/kg dry	☼	63	42 - 120
Acenaphthylene	ND		1.59	0.871		mg/kg dry	☼	55	32 - 120
Anthracene	ND		1.59	1.13		mg/kg dry	☼	71	10 - 200
Benzo (a) anthracene	ND		1.59	1.13		mg/kg dry	☼	71	41 - 120
Benzo (a) pyrene	ND		1.59	1.16		mg/kg dry	☼	73	33 - 121
Benzo (b) fluoranthene	ND		1.59	1.16		mg/kg dry	☼	73	26 - 137
Benzo (g,h,i) perylene	ND		1.59	1.12		mg/kg dry	☼	70	21 - 124
Benzo (k) fluoranthene	ND		1.59	1.24		mg/kg dry	☼	78	14 - 140
4-Bromophenyl phenyl ether	ND		1.59	1.21		mg/kg dry	☼	76	39 - 120
Butyl benzyl phthalate	ND		1.59	1.19		mg/kg dry	☼	75	47 - 124
Carbazole	ND		1.59	1.19		mg/kg dry	☼	75	37 - 120
4-Chloro-3-methylphenol	ND		1.59	1.01		mg/kg dry	☼	64	38 - 120
4-Chloroaniline	ND		1.59	0.860		mg/kg dry	☼	54	20 - 120
Bis(2-chloroethoxy)methane	ND		1.59	0.906		mg/kg dry	☼	57	32 - 120
Bis(2-chloroethyl)ether	ND		1.59	0.961		mg/kg dry	☼	60	25 - 120
Bis(2-chloroisopropyl)ether	ND		1.59	0.932		mg/kg dry	☼	59	23 - 120
2-Chloronaphthalene	ND		1.59	0.889		mg/kg dry	☼	56	39 - 120
2-Chlorophenol	ND		1.59	1.04		mg/kg dry	☼	65	28 - 120
4-Chlorophenyl phenyl ether	ND		1.59	1.09		mg/kg dry	☼	69	43 - 120
Chrysene	ND		1.59	1.12		mg/kg dry	☼	70	28 - 123
Dibenz (a,h) anthracene	ND		1.59	1.20		mg/kg dry	☼	76	25 - 127
Dibenzofuran	ND		1.59	1.04		mg/kg dry	☼	66	40 - 120
Di-n-butyl phthalate	ND		1.59	1.20		mg/kg dry	☼	76	32 - 124
1,4-Dichlorobenzene	ND		1.59	0.842		mg/kg dry	☼	53	10 - 120
1,2-Dichlorobenzene	ND		1.59	0.851		mg/kg dry	☼	54	10 - 120
1,3-Dichlorobenzene	ND		1.59	0.833		mg/kg dry	☼	52	10 - 120
3,3-Dichlorobenzidine	ND		1.59	1.14		mg/kg dry	☼	72	13 - 120
2,4-Dichlorophenol	ND		1.59	0.920		mg/kg dry	☼	58	33 - 120
Diethyl phthalate	ND		1.59	1.13		mg/kg dry	☼	71	34 - 120
2,4-Dimethylphenol	ND		1.59	0.921		mg/kg dry	☼	58	29 - 120
Dimethyl phthalate	ND		1.59	1.15		mg/kg dry	☼	72	43 - 120
4,6-Dinitro-2-methylphenol	ND		1.59	1.25		mg/kg dry	☼	79	10 - 134
2,4-Dinitrophenol	ND		1.59	1.50		mg/kg dry	☼	94	10 - 145
2,6-Dinitrotoluene	ND		1.59	1.12		mg/kg dry	☼	70	43 - 120
2,4-Dinitrotoluene	ND		1.59	1.09		mg/kg dry	☼	69	42 - 122
Di-n-octyl phthalate	ND		1.59	1.24		mg/kg dry	☼	78	34 - 135
Bis(2-ethylhexyl)phthalate	ND		1.59	1.09		mg/kg dry	☼	68	40 - 127

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3181-MS1 **Client Sample ID: F-04A(5-7')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3181 **Prep Batch: 11F3181_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Fluoranthene	ND		1.59	1.21		mg/kg dry	☼	76	38 - 120
Fluorene	ND		1.59	1.10		mg/kg dry	☼	69	41 - 120
Hexachlorobenzene	ND		1.59	1.24		mg/kg dry	☼	78	44 - 120
Hexachlorobutadiene	ND		1.59	0.953		mg/kg dry	☼	60	17 - 120
Hexachlorocyclopentadiene	ND		1.59	0.492		mg/kg dry	☼	31	10 - 120
Hexachloroethane	ND		1.59	0.993		mg/kg dry	☼	62	10 - 120
Indeno (1,2,3-cd) pyrene	ND		1.59	1.20		mg/kg dry	☼	75	25 - 123
Isophorone	ND		1.59	0.860		mg/kg dry	☼	54	32 - 120
2-Methylnaphthalene	ND		1.59	0.865		mg/kg dry	☼	54	11 - 120
2-Methylphenol	ND		1.59	0.924		mg/kg dry	☼	58	41 - 120
3/4-Methylphenol	ND		1.59	0.937		mg/kg dry	☼	59	36 - 127
Naphthalene	ND		1.59	0.873		mg/kg dry	☼	55	25 - 120
3-Nitroaniline	ND		1.59	1.12		mg/kg dry	☼	70	36 - 120
2-Nitroaniline	ND		1.59	1.13		mg/kg dry	☼	71	46 - 120
4-Nitroaniline	ND		1.59	1.17		mg/kg dry	☼	73	35 - 121
Nitrobenzene	ND		1.59	0.810		mg/kg dry	☼	51	26 - 120
4-Nitrophenol	ND		1.59	1.26		mg/kg dry	☼	80	19 - 136
2-Nitrophenol	ND		1.59	0.908		mg/kg dry	☼	57	26 - 120
N-Nitrosodiphenylamine	ND		1.59	1.35		mg/kg dry	☼	85	43 - 120
N-Nitrosodi-n-propylamine	ND		1.59	1.04		mg/kg dry	☼	65	34 - 120
Pentachlorophenol	ND		1.59	1.34		mg/kg dry	☼	85	15 - 135
Phenanthrene	ND		1.59	1.18		mg/kg dry	☼	74	37 - 120
Phenol	ND		1.59	0.983		mg/kg dry	☼	62	38 - 120
Pyrene	ND		1.59	1.19		mg/kg dry	☼	75	29 - 125
Pyridine	ND		1.59	0.687		mg/kg dry	☼	43	10 - 120
1,2,4-Trichlorobenzene	ND		1.59	0.777		mg/kg dry	☼	49	22 - 120
1-Methylnaphthalene	ND		1.59	0.768		mg/kg dry	☼	48	19 - 120
2,4,6-Trichlorophenol	ND		1.59	1.09		mg/kg dry	☼	68	32 - 120
2,4,5-Trichlorophenol	ND		1.59	1.00		mg/kg dry	☼	63	39 - 120

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
Terphenyl-d14	*82*		*18 - 120*
2,4,6-Tribromophenol	*64*		*19 - 120*
Phenol-d5	*61*		*18 - 120*
2-Fluorobiphenyl	*59*		*14 - 120*
2-Fluorophenol	*56*		*17 - 120*
Nitrobenzene-d5	*54*		*17 - 120*

Lab Sample ID: 11F3181-MSD1 **Client Sample ID: F-04A(5-7')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3181 **Prep Batch: 11F3181_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		1.57	1.24		mg/kg dry	☼	79	42 - 120	21	40
Acenaphthylene	ND		1.57	1.11		mg/kg dry	☼	71	32 - 120	24	30
Anthracene	ND		1.57	1.42		mg/kg dry	☼	90	10 - 200	22	50
Benzo (a) anthracene	ND		1.57	1.39		mg/kg dry	☼	88	41 - 120	20	30
Benzo (a) pyrene	ND		1.57	1.45		mg/kg dry	☼	92	33 - 121	22	33
Benzo (b) fluoranthene	ND		1.57	1.49		mg/kg dry	☼	95	26 - 137	25	42

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3181-MSD1 **Client Sample ID: F-04A(5-7')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3181 **Prep Batch: 11F3181_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzo (g,h,i) perylene	ND		1.57	1.39		mg/kg dry	☼	89	21 - 124	22	32
Benzo (k) fluoranthene	ND		1.57	1.47		mg/kg dry	☼	94	14 - 140	17	39
4-Bromophenyl phenyl ether	ND		1.57	1.50		mg/kg dry	☼	96	39 - 120	22	31
Butyl benzyl phthalate	ND		1.57	1.44		mg/kg dry	☼	92	47 - 124	19	37
Carbazole	ND		1.57	1.47		mg/kg dry	☼	93	37 - 120	21	29
4-Chloro-3-methylphenol	ND		1.57	1.31		mg/kg dry	☼	83	38 - 120	25	34
4-Chloroaniline	ND		1.57	1.10		mg/kg dry	☼	70	20 - 120	24	43
Bis(2-chloroethoxy)methane	ND		1.57	1.16		mg/kg dry	☼	74	32 - 120	25	41
Bis(2-chloroethyl)ether	ND		1.57	1.24		mg/kg dry	☼	79	25 - 120	25	41
Bis(2-chloroisopropyl)ether	ND		1.57	1.25		mg/kg dry	☼	80	23 - 120	29	50
2-Chloronaphthalene	ND		1.57	1.15		mg/kg dry	☼	73	39 - 120	26	34
2-Chlorophenol	ND		1.57	1.34		mg/kg dry	☼	85	28 - 120	25	45
4-Chlorophenyl phenyl ether	ND		1.57	1.36		mg/kg dry	☼	87	43 - 120	22	31
Chrysene	ND		1.57	1.35		mg/kg dry	☼	86	28 - 123	19	34
Dibenz (a,h) anthracene	ND		1.57	1.48		mg/kg dry	☼	94	25 - 127	21	31
Dibenzofuran	ND		1.57	1.34		mg/kg dry	☼	85	40 - 120	25	39
Di-n-butyl phthalate	ND		1.57	1.49		mg/kg dry	☼	95	32 - 124	21	29
1,4-Dichlorobenzene	ND		1.57	1.11		mg/kg dry	☼	71	10 - 120	28	50
1,2-Dichlorobenzene	ND		1.57	1.14		mg/kg dry	☼	73	10 - 120	29	50
1,3-Dichlorobenzene	ND		1.57	1.13		mg/kg dry	☼	72	10 - 120	30	50
3,3-Dichlorobenzidine	ND		1.57	1.41		mg/kg dry	☼	90	13 - 120	21	35
2,4-Dichlorophenol	ND		1.57	1.14		mg/kg dry	☼	73	33 - 120	22	35
Diethyl phthalate	ND		1.57	1.38		mg/kg dry	☼	88	34 - 120	20	33
2,4-Dimethylphenol	ND		1.57	1.08		mg/kg dry	☼	69	29 - 120	15	50
Dimethyl phthalate	ND		1.57	1.41		mg/kg dry	☼	90	43 - 120	20	31
4,6-Dinitro-2-methylphenol	ND		1.57	1.59		mg/kg dry	☼	101	10 - 134	24	50
2,4-Dinitrophenol	ND		1.57	1.94		mg/kg dry	☼	124	10 - 145	26	50
2,6-Dinitrotoluene	ND		1.57	1.35		mg/kg dry	☼	86	43 - 120	19	34
2,4-Dinitrotoluene	ND		1.57	1.32		mg/kg dry	☼	84	42 - 122	19	31
Di-n-octyl phthalate	ND		1.57	1.49		mg/kg dry	☼	95	34 - 135	18	31
Bis(2-ethylhexyl)phthalate	ND		1.57	1.39		mg/kg dry	☼	88	40 - 127	24	32
Fluoranthene	ND		1.57	1.48		mg/kg dry	☼	95	38 - 120	20	35
Fluorene	ND		1.57	1.36		mg/kg dry	☼	87	41 - 120	22	37
Hexachlorobenzene	ND		1.57	1.52		mg/kg dry	☼	97	44 - 120	20	28
Hexachlorobutadiene	ND		1.57	1.27		mg/kg dry	☼	81	17 - 120	29	50
Hexachlorocyclopentadiene	ND		1.57	0.671		mg/kg dry	☼	43	10 - 120	31	50
Hexachloroethane	ND		1.57	1.31		mg/kg dry	☼	84	10 - 120	28	50
Indeno (1,2,3-cd) pyrene	ND		1.57	1.47		mg/kg dry	☼	94	25 - 123	20	32
Isophorone	ND		1.57	1.08		mg/kg dry	☼	69	32 - 120	23	36
2-Methylnaphthalene	ND		1.57	1.12		mg/kg dry	☼	71	11 - 120	26	50
2-Methylphenol	ND		1.57	1.20		mg/kg dry	☼	77	41 - 120	26	41
3/4-Methylphenol	ND		1.57	1.22		mg/kg dry	☼	78	36 - 127	27	39
Naphthalene	ND		1.57	1.11		mg/kg dry	☼	71	25 - 120	24	42
3-Nitroaniline	ND		1.57	1.38		mg/kg dry	☼	88	36 - 120	21	35
2-Nitroaniline	ND		1.57	1.41		mg/kg dry	☼	90	46 - 120	22	28
4-Nitroaniline	ND		1.57	1.41		mg/kg dry	☼	90	35 - 121	19	36
Nitrobenzene	ND		1.57	1.04		mg/kg dry	☼	66	26 - 120	25	44
4-Nitrophenol	ND		1.57	1.53		mg/kg dry	☼	97	19 - 136	19	47
2-Nitrophenol	ND		1.57	1.15		mg/kg dry	☼	73	26 - 120	23	43
N-Nitrosodiphenylamine	ND		1.57	1.70		mg/kg dry	☼	108	43 - 120	23	30

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3181-MSD1 **Client Sample ID: F-04A(5-7')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3181 **Prep Batch: 11F3181_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
N-Nitrosodi-n-propylamine	ND		1.57	1.38		mg/kg dry	☼	88	34 - 120	28	41
Pentachlorophenol	ND		1.57	1.71		mg/kg dry	☼	109	15 - 135	24	32
Phenanthrene	ND		1.57	1.48		mg/kg dry	☼	94	37 - 120	23	32
Phenol	ND		1.57	1.31		mg/kg dry	☼	83	38 - 120	28	42
Pyrene	ND		1.57	1.46		mg/kg dry	☼	93	29 - 125	21	40
Pyridine	ND		1.57	0.868		mg/kg dry	☼	55	10 - 120	23	50
1,2,4-Trichlorobenzene	ND		1.57	0.989		mg/kg dry	☼	63	22 - 120	24	46
1-Methylnaphthalene	ND		1.57	0.989		mg/kg dry	☼	63	19 - 120	25	45
2,4,6-Trichlorophenol	ND		1.57	1.39		mg/kg dry	☼	89	32 - 120	25	34
2,4,5-Trichlorophenol	ND		1.57	1.30		mg/kg dry	☼	83	39 - 120	25	33

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Terphenyl-d14	*93*		*18 - 120*
2,4,6-Tribromophenol	*73*		*19 - 120*
Phenol-d5	*70*		*18 - 120*
2-Fluorobiphenyl	*69*		*14 - 120*
2-Fluorophenol	*66*		*17 - 120*
Nitrobenzene-d5	*60*		*17 - 120*

Lab Sample ID: 11F3190-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Acenaphthylene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Anthracene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Benzo (a) anthracene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Benzo (a) pyrene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Benzo (b) fluoranthene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Benzo (g,h,i) perylene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Benzo (k) fluoranthene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
4-Bromophenyl phenyl ether	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Butyl benzyl phthalate	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Carbazole	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
4-Chloro-3-methylphenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
4-Chloroaniline	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Bis(2-chloroethoxy)methane	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Bis(2-chloroethyl)ether	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Bis(2-chloroisopropyl)ether	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2-Chloronaphthalene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2-Chlorophenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
4-Chlorophenyl phenyl ether	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Chrysene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Dibenz (a,h) anthracene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Dibenzofuran	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Di-n-butyl phthalate	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
1,4-Dichlorobenzene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
1,2-Dichlorobenzene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3190-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
3,3-Dichlorobenzidine	ND		0.667		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2,4-Dichlorophenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Diethyl phthalate	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2,4-Dimethylphenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Dimethyl phthalate	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
4,6-Dinitro-2-methylphenol	ND		0.833		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2,4-Dinitrophenol	ND		0.833		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2,6-Dinitrotoluene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2,4-Dinitrotoluene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Di-n-octyl phthalate	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Bis(2-ethylhexyl)phthalate	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Fluoranthene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Fluorene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Hexachlorobenzene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Hexachlorobutadiene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Hexachlorocyclopentadiene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Hexachloroethane	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Isophorone	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2-Methylnaphthalene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2-Methylphenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
3/4-Methylphenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Naphthalene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
3-Nitroaniline	ND		0.833		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2-Nitroaniline	ND		0.833		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
4-Nitroaniline	ND		0.833		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Nitrobenzene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
4-Nitrophenol	ND		0.833		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2-Nitrophenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
N-Nitrosodiphenylamine	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
N-Nitrosodi-n-propylamine	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Pentachlorophenol	ND		0.833		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Phenanthrene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Phenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Pyrene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
Pyridine	ND		0.667		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
1,2,4-Trichlorobenzene	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
1-Methylnaphthalene	ND		0.0670		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2,4,6-Trichlorophenol	ND		0.333		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00
2,4,5-Trichlorophenol	ND		0.833		mg/kg wet		06/13/11 14:35	06/14/11 13:52	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*89*		*18 - 120*	*06/13/11 14:35*	*06/14/11 13:52*	*1.00*
2,4,6-Tribromophenol	*63*		*19 - 120*	*06/13/11 14:35*	*06/14/11 13:52*	*1.00*
Phenol-d5	*70*		*18 - 120*	*06/13/11 14:35*	*06/14/11 13:52*	*1.00*
2-Fluorobiphenyl	*69*		*14 - 120*	*06/13/11 14:35*	*06/14/11 13:52*	*1.00*
2-Fluorophenol	*69*		*17 - 120*	*06/13/11 14:35*	*06/14/11 13:52*	*1.00*
Nitrobenzene-d5	*72*		*17 - 120*	*06/13/11 14:35*	*06/14/11 13:52*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3190-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.67	1.21		mg/kg wet		73	49 - 120
Acenaphthylene	1.67	1.11		mg/kg wet		67	52 - 120
Anthracene	1.67	1.33		mg/kg wet		80	58 - 120
Benzo (a) anthracene	1.67	1.35		mg/kg wet		81	57 - 120
Benzo (a) pyrene	1.67	1.37		mg/kg wet		82	55 - 120
Benzo (b) fluoranthene	1.67	1.49		mg/kg wet		90	51 - 123
Benzo (g,h,i) perylene	1.67	1.38		mg/kg wet		83	49 - 121
Benzo (k) fluoranthene	1.67	1.11		mg/kg wet		66	42 - 129
4-Bromophenyl phenyl ether	1.67	1.35		mg/kg wet		81	49 - 120
Butyl benzyl phthalate	1.67	1.60		mg/kg wet		96	59 - 124
Carbazole	1.67	1.37		mg/kg wet		82	54 - 120
4-Chloro-3-methylphenol	1.67	1.39		mg/kg wet		83	49 - 120
4-Chloroaniline	1.67	1.26		mg/kg wet		76	41 - 120
Bis(2-chloroethoxy)methane	1.67	1.31		mg/kg wet		79	37 - 120
Bis(2-chloroethyl)ether	1.67	1.20		mg/kg wet		72	29 - 120
Bis(2-chloroisopropyl)ether	1.67	1.21		mg/kg wet		72	28 - 120
2-Chloronaphthalene	1.67	1.12		mg/kg wet		67	45 - 120
2-Chlorophenol	1.67	1.31		mg/kg wet		79	42 - 120
4-Chlorophenyl phenyl ether	1.67	1.28		mg/kg wet		77	52 - 120
Chrysene	1.67	1.27		mg/kg wet		76	55 - 120
Dibenz (a,h) anthracene	1.67	1.38		mg/kg wet		83	50 - 123
Dibenzofuran	1.67	1.26		mg/kg wet		76	54 - 120
Di-n-butyl phthalate	1.67	1.45		mg/kg wet		87	58 - 120
1,4-Dichlorobenzene	1.67	1.13		mg/kg wet		68	15 - 120
1,2-Dichlorobenzene	1.67	1.14		mg/kg wet		68	17 - 120
1,3-Dichlorobenzene	1.67	1.12		mg/kg wet		67	13 - 120
3,3-Dichlorobenzidine	1.67	1.43		mg/kg wet		86	54 - 120
2,4-Dichlorophenol	1.67	1.34		mg/kg wet		80	43 - 120
Diethyl phthalate	1.67	1.32		mg/kg wet		79	52 - 120
2,4-Dimethylphenol	1.67	1.34		mg/kg wet		81	47 - 120
Dimethyl phthalate	1.67	1.32		mg/kg wet		79	55 - 120
4,6-Dinitro-2-methylphenol	1.67	1.43		mg/kg wet		86	27 - 134
2,4-Dinitrophenol	1.67	1.59		mg/kg wet		95	15 - 145
2,6-Dinitrotoluene	1.67	1.33		mg/kg wet		80	56 - 120
2,4-Dinitrotoluene	1.67	1.28		mg/kg wet		77	55 - 122
Di-n-octyl phthalate	1.67	1.63		mg/kg wet		98	48 - 131
Bis(2-ethylhexyl)phthalate	1.67	1.91		mg/kg wet		115	51 - 127
Fluoranthene	1.67	1.34		mg/kg wet		80	58 - 120
Fluorene	1.67	1.26		mg/kg wet		75	54 - 120
Hexachlorobenzene	1.67	1.30		mg/kg wet		78	56 - 120
Hexachlorobutadiene	1.67	1.36		mg/kg wet		81	19 - 120
Hexachlorocyclopentadiene	1.67	0.796		mg/kg wet		48	11 - 120
Hexachloroethane	1.67	1.28		mg/kg wet		77	14 - 120
Indeno (1,2,3-cd) pyrene	1.67	1.38		mg/kg wet		83	50 - 122
Isophorone	1.67	1.21		mg/kg wet		73	43 - 120
2-Methylnaphthalene	1.67	1.23		mg/kg wet		74	36 - 120
2-Methylphenol	1.67	1.21		mg/kg wet		73	47 - 120
3/4-Methylphenol	1.67	1.24		mg/kg wet		74	53 - 135
Naphthalene	1.67	1.19		mg/kg wet		71	28 - 120

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3190-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
3-Nitroaniline	1.67	1.36		mg/kg wet		81	54 - 120
2-Nitroaniline	1.67	1.41		mg/kg wet		84	59 - 120
4-Nitroaniline	1.67	1.37		mg/kg wet		82	55 - 121
Nitrobenzene	1.67	1.15		mg/kg wet		69	30 - 120
4-Nitrophenol	1.67	1.34		mg/kg wet		81	44 - 133
2-Nitrophenol	1.67	1.39		mg/kg wet		84	36 - 120
N-Nitrosodiphenylamine	1.67	1.57		mg/kg wet		94	56 - 120
N-Nitrosodi-n-propylamine	1.67	1.28		mg/kg wet		77	45 - 120
Pentachlorophenol	1.67	1.66		mg/kg wet		100	42 - 135
Phenanthrene	1.67	1.34		mg/kg wet		81	56 - 120
Phenol	1.67	1.29		mg/kg wet		77	45 - 120
Pyrene	1.67	1.34		mg/kg wet		80	56 - 120
Pyridine	1.67	1.06		mg/kg wet		63	26 - 120
1,2,4-Trichlorobenzene	1.67	1.13		mg/kg wet		68	22 - 120
1-Methylnaphthalene	1.67	1.08		mg/kg wet		65	36 - 120
2,4,6-Trichlorophenol	1.67	1.35		mg/kg wet		81	50 - 120
2,4,5-Trichlorophenol	1.67	1.24		mg/kg wet		74	54 - 120

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*83*		*18 - 120*
2,4,6-Tribromophenol	*66*		*19 - 120*
Phenol-d5	*65*		*18 - 120*
2-Fluorobiphenyl	*66*		*14 - 120*
2-Fluorophenol	*66*		*17 - 120*
Nitrobenzene-d5	*64*		*17 - 120*

Lab Sample ID: 11F3190-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	ND		1.98	1.44		mg/kg dry	☼	73	42 - 120
Acenaphthylene	ND		1.98	1.31		mg/kg dry	☼	66	32 - 120
Anthracene	ND		1.98	1.54		mg/kg dry	☼	78	10 - 200
Benzo (a) anthracene	ND		1.98	1.57		mg/kg dry	☼	80	41 - 120
Benzo (a) pyrene	ND		1.98	1.56		mg/kg dry	☼	79	33 - 121
Benzo (b) fluoranthene	ND		1.98	1.73		mg/kg dry	☼	87	26 - 137
Benzo (g,h,i) perylene	ND		1.98	1.57		mg/kg dry	☼	80	21 - 124
Benzo (k) fluoranthene	ND		1.98	1.28		mg/kg dry	☼	65	14 - 140
4-Bromophenyl phenyl ether	ND		1.98	1.61		mg/kg dry	☼	82	39 - 120
Butyl benzyl phthalate	ND		1.98	1.87		mg/kg dry	☼	95	47 - 124
Carbazole	ND		1.98	1.56		mg/kg dry	☼	79	37 - 120
4-Chloro-3-methylphenol	ND		1.98	1.67		mg/kg dry	☼	84	38 - 120
4-Chloroaniline	ND		1.98	1.51		mg/kg dry	☼	76	20 - 120
Bis(2-chloroethoxy)methane	ND		1.98	1.49		mg/kg dry	☼	76	32 - 120
Bis(2-chloroethyl)ether	ND		1.98	1.34		mg/kg dry	☼	68	25 - 120
Bis(2-chloroisopropyl)ether	ND		1.98	1.40		mg/kg dry	☼	71	23 - 120
2-Chloronaphthalene	ND		1.98	1.33		mg/kg dry	☼	67	39 - 120
2-Chlorophenol	ND		1.98	1.54		mg/kg dry	☼	78	28 - 120

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3190-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
4-Chlorophenyl phenyl ether	ND		1.98	1.55		mg/kg dry	☼	79	43 - 120
Chrysene	0.0413		1.98	1.46		mg/kg dry	☼	72	28 - 123
Dibenz (a,h) anthracene	ND		1.98	1.59		mg/kg dry	☼	80	25 - 127
Dibenzofuran	ND		1.98	1.50		mg/kg dry	☼	76	40 - 120
Di-n-butyl phthalate	ND		1.98	1.64		mg/kg dry	☼	83	32 - 124
1,4-Dichlorobenzene	ND		1.98	1.30		mg/kg dry	☼	66	10 - 120
1,2-Dichlorobenzene	ND		1.98	1.34		mg/kg dry	☼	68	10 - 120
1,3-Dichlorobenzene	ND		1.98	1.30		mg/kg dry	☼	66	10 - 120
3,3-Dichlorobenzidine	ND		1.98	1.58		mg/kg dry	☼	80	13 - 120
2,4-Dichlorophenol	ND		1.98	1.60		mg/kg dry	☼	81	33 - 120
Diethyl phthalate	ND		1.98	1.53		mg/kg dry	☼	78	34 - 120
2,4-Dimethylphenol	ND		1.98	1.33		mg/kg dry	☼	67	29 - 120
Dimethyl phthalate	ND		1.98	1.53		mg/kg dry	☼	77	43 - 120
4,6-Dinitro-2-methylphenol	ND		1.98	0.510		mg/kg dry	☼	26	10 - 134
2,4-Dinitrophenol	ND		1.98	0.540		mg/kg dry	☼	27	10 - 145
2,6-Dinitrotoluene	ND		1.98	1.58		mg/kg dry	☼	80	43 - 120
2,4-Dinitrotoluene	ND		1.98	1.48		mg/kg dry	☼	75	42 - 122
Di-n-octyl phthalate	ND		1.98	1.91		mg/kg dry	☼	97	34 - 135
Bis(2-ethylhexyl)phthalate	ND		1.98	1.85		mg/kg dry	☼	94	40 - 127
Fluoranthene	0.0667		1.98	1.57		mg/kg dry	☼	76	38 - 120
Fluorene	ND		1.98	1.51		mg/kg dry	☼	77	41 - 120
Hexachlorobenzene	ND		1.98	1.56		mg/kg dry	☼	79	44 - 120
Hexachlorobutadiene	ND		1.98	1.69		mg/kg dry	☼	85	17 - 120
Hexachlorocyclopentadiene	ND		1.98	0.760		mg/kg dry	☼	38	10 - 120
Hexachloroethane	ND		1.98	1.46		mg/kg dry	☼	74	10 - 120
Indeno (1,2,3-cd) pyrene	ND		1.98	1.60		mg/kg dry	☼	81	25 - 123
Isophorone	ND		1.98	1.37		mg/kg dry	☼	69	32 - 120
2-Methylnaphthalene	ND		1.98	1.49		mg/kg dry	☼	75	11 - 120
2-Methylphenol	ND		1.98	1.38		mg/kg dry	☼	70	41 - 120
3/4-Methylphenol	ND		1.98	1.41		mg/kg dry	☼	72	36 - 127
Naphthalene	ND		1.98	1.42		mg/kg dry	☼	72	25 - 120
3-Nitroaniline	ND		1.98	1.65		mg/kg dry	☼	83	36 - 120
2-Nitroaniline	ND		1.98	1.69		mg/kg dry	☼	85	46 - 120
4-Nitroaniline	ND		1.98	1.65		mg/kg dry	☼	84	35 - 121
Nitrobenzene	ND		1.98	1.35		mg/kg dry	☼	68	26 - 120
4-Nitrophenol	ND		1.98	1.62		mg/kg dry	☼	82	19 - 136
2-Nitrophenol	ND		1.98	1.57		mg/kg dry	☼	79	26 - 120
N-Nitrosodiphenylamine	ND		1.98	1.82		mg/kg dry	☼	92	43 - 120
N-Nitrosodi-n-propylamine	ND		1.98	1.47		mg/kg dry	☼	74	34 - 120
Pentachlorophenol	ND		1.98	1.94		mg/kg dry	☼	98	15 - 135
Phenanthrene	0.0413		1.98	1.57		mg/kg dry	☼	77	37 - 120
Phenol	ND		1.98	1.49		mg/kg dry	☼	76	38 - 120
Pyrene	0.0682		1.98	1.61		mg/kg dry	☼	78	29 - 125
Pyridine	ND		1.98	1.24		mg/kg dry	☼	63	10 - 120
1,2,4-Trichlorobenzene	ND		1.98	1.37		mg/kg dry	☼	69	22 - 120
1-Methylnaphthalene	ND		1.98	1.32		mg/kg dry	☼	67	19 - 120
2,4,6-Trichlorophenol	ND		1.98	1.63		mg/kg dry	☼	83	32 - 120
2,4,5-Trichlorophenol	ND		1.98	1.53		mg/kg dry	☼	77	39 - 120

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3190-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
Terphenyl-d14	*83*		*18 - 120*
2,4,6-Tribromophenol	*67*		*19 - 120*
Phenol-d5	*65*		*18 - 120*
2-Fluorobiphenyl	*64*		*14 - 120*
2-Fluorophenol	*66*		*17 - 120*
Nitrobenzene-d5	*63*		*17 - 120*

Lab Sample ID: 11F3190-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		1.96	1.40		mg/kg dry	☼	71	42 - 120	3	40
Acenaphthylene	ND		1.96	1.25		mg/kg dry	☼	64	32 - 120	5	30
Anthracene	ND		1.96	1.50		mg/kg dry	☼	76	10 - 200	3	50
Benzo (a) anthracene	ND		1.96	1.52		mg/kg dry	☼	78	41 - 120	3	30
Benzo (a) pyrene	ND		1.96	1.48		mg/kg dry	☼	75	33 - 121	5	33
Benzo (b) fluoranthene	ND		1.96	1.41		mg/kg dry	☼	72	26 - 137	20	42
Benzo (g,h,i) perylene	ND		1.96	1.52		mg/kg dry	☼	77	21 - 124	4	32
Benzo (k) fluoranthene	ND		1.96	1.50		mg/kg dry	☼	76	14 - 140	16	39
4-Bromophenyl phenyl ether	ND		1.96	1.52		mg/kg dry	☼	77	39 - 120	6	31
Butyl benzyl phthalate	ND		1.96	1.85		mg/kg dry	☼	94	47 - 124	1	37
Carbazole	ND		1.96	1.53		mg/kg dry	☼	78	37 - 120	2	29
4-Chloro-3-methylphenol	ND		1.96	1.62		mg/kg dry	☼	83	38 - 120	3	34
4-Chloroaniline	ND		1.96	1.41		mg/kg dry	☼	72	20 - 120	7	43
Bis(2-chloroethoxy)methane	ND		1.96	1.45		mg/kg dry	☼	74	32 - 120	3	41
Bis(2-chloroethyl)ether	ND		1.96	1.28		mg/kg dry	☼	65	25 - 120	5	41
Bis(2-chloroisopropyl)ether	ND		1.96	1.30		mg/kg dry	☼	66	23 - 120	7	50
2-Chloronaphthalene	ND		1.96	1.25		mg/kg dry	☼	64	39 - 120	6	34
2-Chlorophenol	ND		1.96	1.41		mg/kg dry	☼	72	28 - 120	9	45
4-Chlorophenyl phenyl ether	ND		1.96	1.47		mg/kg dry	☼	75	43 - 120	6	31
Chrysene	0.0413		1.96	1.43		mg/kg dry	☼	71	28 - 123	2	34
Dibenz (a,h) anthracene	ND		1.96	1.51		mg/kg dry	☼	77	25 - 127	5	31
Dibenzofuran	ND		1.96	1.45		mg/kg dry	☼	74	40 - 120	3	39
Di-n-butyl phthalate	ND		1.96	1.64		mg/kg dry	☼	84	32 - 124	0.007	29
1,4-Dichlorobenzene	ND		1.96	1.22		mg/kg dry	☼	62	10 - 120	6	50
1,2-Dichlorobenzene	ND		1.96	1.22		mg/kg dry	☼	62	10 - 120	10	50
1,3-Dichlorobenzene	ND		1.96	1.21		mg/kg dry	☼	62	10 - 120	7	50
3,3-Dichlorobenzidine	ND		1.96	1.48		mg/kg dry	☼	75	13 - 120	7	35
2,4-Dichlorophenol	ND		1.96	1.52		mg/kg dry	☼	77	33 - 120	5	35
Diethyl phthalate	ND		1.96	1.46		mg/kg dry	☼	74	34 - 120	5	33
2,4-Dimethylphenol	ND		1.96	1.16		mg/kg dry	☼	59	29 - 120	14	50
Dimethyl phthalate	ND		1.96	1.46		mg/kg dry	☼	75	43 - 120	4	31
4,6-Dinitro-2-methylphenol	ND		1.96	0.472		mg/kg dry	☼	24	10 - 134	8	50
2,4-Dinitrophenol	ND		1.96	0.485		mg/kg dry	☼	25	10 - 145	11	50
2,6-Dinitrotoluene	ND		1.96	1.48		mg/kg dry	☼	75	43 - 120	7	34
2,4-Dinitrotoluene	ND		1.96	1.43		mg/kg dry	☼	73	42 - 122	4	31
Di-n-octyl phthalate	ND		1.96	1.87		mg/kg dry	☼	96	34 - 135	2	31
Bis(2-ethylhexyl)phthalate	ND		1.96	1.83		mg/kg dry	☼	93	40 - 127	1	32

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3190-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3190 **Prep Batch: 11F3190_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Fluoranthene	0.0667		1.96	1.53		mg/kg dry	☼	74	38 - 120	3	35
Fluorene	ND		1.96	1.45		mg/kg dry	☼	74	41 - 120	4	37
Hexachlorobenzene	ND		1.96	1.45		mg/kg dry	☼	74	44 - 120	7	28
Hexachlorobutadiene	ND		1.96	1.52		mg/kg dry	☼	77	17 - 120	11	50
Hexachlorocyclopentadiene	ND		1.96	0.670		mg/kg dry	☼	34	10 - 120	13	50
Hexachloroethane	ND		1.96	1.37		mg/kg dry	☼	70	10 - 120	6	50
Indeno (1,2,3-cd) pyrene	ND		1.96	1.52		mg/kg dry	☼	77	25 - 123	5	32
Isophorone	ND		1.96	1.32		mg/kg dry	☼	67	32 - 120	4	36
2-Methylnaphthalene	ND		1.96	1.43		mg/kg dry	☼	73	11 - 120	4	50
2-Methylphenol	ND		1.96	1.30		mg/kg dry	☼	66	41 - 120	6	41
3/4-Methylphenol	ND		1.96	1.33		mg/kg dry	☼	68	36 - 127	6	39
Naphthalene	ND		1.96	1.35		mg/kg dry	☼	69	25 - 120	5	42
3-Nitroaniline	ND		1.96	1.57		mg/kg dry	☼	80	36 - 120	5	35
2-Nitroaniline	ND		1.96	1.62		mg/kg dry	☼	83	46 - 120	4	28
4-Nitroaniline	ND		1.96	1.59		mg/kg dry	☼	81	35 - 121	4	36
Nitrobenzene	ND		1.96	1.29		mg/kg dry	☼	66	26 - 120	4	44
4-Nitrophenol	ND		1.96	1.59		mg/kg dry	☼	81	19 - 136	2	47
2-Nitrophenol	ND		1.96	1.47		mg/kg dry	☼	75	26 - 120	7	43
N-Nitrosodiphenylamine	ND		1.96	1.76		mg/kg dry	☼	90	43 - 120	4	30
N-Nitrosodi-n-propylamine	ND		1.96	1.38		mg/kg dry	☼	70	34 - 120	6	41
Pentachlorophenol	ND		1.96	1.81		mg/kg dry	☼	92	15 - 135	7	32
Phenanthrene	0.0413		1.96	1.53		mg/kg dry	☼	76	37 - 120	2	32
Phenol	ND		1.96	1.42		mg/kg dry	☼	72	38 - 120	5	42
Pyrene	0.0682		1.96	1.58		mg/kg dry	☼	77	29 - 125	2	40
Pyridine	ND		1.96	1.19		mg/kg dry	☼	61	10 - 120	4	50
1,2,4-Trichlorobenzene	ND		1.96	1.27		mg/kg dry	☼	65	22 - 120	8	46
1-Methylnaphthalene	ND		1.96	1.25		mg/kg dry	☼	64	19 - 120	5	45
2,4,6-Trichlorophenol	ND		1.96	1.55		mg/kg dry	☼	79	32 - 120	6	34
2,4,5-Trichlorophenol	ND		1.96	1.43		mg/kg dry	☼	73	39 - 120	7	33

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Terphenyl-d14	*84*		*18 - 120*
2,4,6-Tribromophenol	*66*		*19 - 120*
Phenol-d5	*66*		*18 - 120*
2-Fluorobiphenyl	*63*		*14 - 120*
2-Fluorophenol	*65*		*17 - 120*
Nitrobenzene-d5	*64*		*17 - 120*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons

Lab Sample ID: 11F3316-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010504 **Prep Batch: 11F3316_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		5.00		mg/kg wet		06/13/11 15:25	06/14/11 11:38	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*60 - 150*	*06/13/11 15:25*	*06/14/11 11:38*	*50.0*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 11F3316-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010504 **Prep Batch: 11F3316_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		5.00		mg/kg wet		06/13/11 15:25	06/14/11 11:55	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*82*		*60 - 150*	*06/13/11 15:25*	*06/14/11 11:55*	*50.0*

Lab Sample ID: 11F3316-BLK3 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010504 **Prep Batch: 11F3316_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		5.00		mg/kg wet		06/13/11 15:25	06/14/11 13:21	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*85*		*60 - 150*	*06/13/11 15:25*	*06/14/11 13:21*	*50.0*

Lab Sample ID: 11F3316-BLK4 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010504 **Prep Batch: 11F3316_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO as Gasoline	ND		5.00		mg/kg wet		06/13/11 15:25	06/14/11 13:38	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*80*		*60 - 150*	*06/13/11 15:25*	*06/14/11 13:38*	*50.0*

Lab Sample ID: 11F3316-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010504 **Prep Batch: 11F3316_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
GRO as Gasoline			10.0	9.54		mg/kg wet		95	70 - 130		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*121*		*60 - 150*

Lab Sample ID: 11F3316-BS2 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010504 **Prep Batch: 11F3316_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
GRO as Gasoline			10.0	10.5		mg/kg wet		105	70 - 130		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*128*		*60 - 150*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 11F3316-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010504 **Prep Batch: 11F3316_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
GRO as Gasoline	30.0		623	611		mg/kg dry	☼	93	63 - 134

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*116*		*60 - 150*

Lab Sample ID: 11F3316-MS2 **Client Sample ID: F-01B(4-6')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010504 **Prep Batch: 11F3316_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
GRO as Gasoline	ND		601	516		mg/kg dry	☼	86	63 - 134

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*109*		*60 - 150*

Lab Sample ID: 11F3316-MS3 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010504 **Prep Batch: 11F3316_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
GRO as Gasoline	0.594		554	474		mg/kg dry	☼	85	63 - 134

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*108*		*60 - 150*

Lab Sample ID: 11F3316-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010504 **Prep Batch: 11F3316_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
GRO as Gasoline	30.0		623	533		mg/kg dry	☼	81	63 - 134	14	50

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*104*		*60 - 150*

Lab Sample ID: 11F3316-MSD2 **Client Sample ID: F-01B(4-6')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010504 **Prep Batch: 11F3316_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
GRO as Gasoline	ND		601	507		mg/kg dry	☼	84	63 - 134	2	50

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*108*		*60 - 150*

Method: SW846 8015B - Purgeable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 11F3316-MSD3 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010504 **Prep Batch: 11F3316_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
GRO as Gasoline	0.594		554	484		mg/kg dry	☼	87	63 - 134	2	50

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*108*		*60 - 150*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Lab Sample ID: 11F3196-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010796 **Prep Batch: 11F3196_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		4.00		mg/kg wet		06/14/11 09:00	06/17/11 15:08	1.00
TPH - Oil Range	ND		4.00		mg/kg wet		06/14/11 09:00	06/17/11 15:08	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*134*		*53 - 140*	*06/14/11 09:00*	*06/17/11 15:08*	*1.00*

Lab Sample ID: 11F3196-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010614 **Prep Batch: 11F3196_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Diesel	40.0	33.3		mg/kg wet		83	65 - 127

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*90*		*53 - 140*

Lab Sample ID: 11F3196-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010614 **Prep Batch: 11F3196_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Diesel	1.03		52.7	42.0		mg/kg dry	☼	78	23 - 138

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
o-Terphenyl	*81*		*53 - 140*

Lab Sample ID: 11F3196-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010614 **Prep Batch: 11F3196_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diesel	1.03		53.1	51.1		mg/kg dry	☼	94	23 - 138	20	40

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
o-Terphenyl	*92*		*53 - 140*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Lab Sample ID: 11F3177-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U010419 — **Prep Batch: 11F3177_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0333		mg/kg wet		06/14/11 08:20	06/14/11 17:56	1.00
PCB-1221	ND		0.0333		mg/kg wet		06/14/11 08:20	06/14/11 17:56	1.00
PCB-1232	ND		0.0333		mg/kg wet		06/14/11 08:20	06/14/11 17:56	1.00
PCB-1242	ND		0.0333		mg/kg wet		06/14/11 08:20	06/14/11 17:56	1.00
PCB-1248	ND		0.0333		mg/kg wet		06/14/11 08:20	06/14/11 17:56	1.00
PCB-1254	ND		0.0333		mg/kg wet		06/14/11 08:20	06/14/11 17:56	1.00
PCB-1260	ND		0.0333		mg/kg wet		06/14/11 08:20	06/14/11 17:56	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*80*		*19 - 147*	*06/14/11 08:20*	*06/14/11 17:56*	*1.00*
Decachlorobiphenyl	*86*		*20 - 150*	*06/14/11 08:20*	*06/14/11 17:56*	*1.00*

Lab Sample ID: 11F3177-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U010419 — **Prep Batch: 11F3177_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
PCB-1016	0.167	0.139		mg/kg wet		83	64 - 122
PCB-1260	0.167	0.162		mg/kg wet		97	56 - 150

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-meta-xylene	*84*		*19 - 147*
Decachlorobiphenyl	*88*		*20 - 150*

Lab Sample ID: 11F3177-MS1 — **Client Sample ID: F-04A(5-7')**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U010419 — **Prep Batch: 11F3177_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
PCB-1016	ND		0.155	0.125		mg/kg dry	☼	81	20 - 175
PCB-1260	ND		0.155	0.147		mg/kg dry	☼	94	51 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
Tetrachloro-meta-xylene	*68*		*19 - 147*
Decachlorobiphenyl	*76*		*20 - 150*

Lab Sample ID: 11F3177-MSD1 — **Client Sample ID: F-04A(5-7')**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: U010419 — **Prep Batch: 11F3177_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
PCB-1016	ND		0.155	0.119		mg/kg dry	☼	77	20 - 175	5	50
PCB-1260	ND		0.155	0.141		mg/kg dry	☼	91	51 - 159	4	36

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Tetrachloro-meta-xylene	*70*		*19 - 147*
Decachlorobiphenyl	*80*		*20 - 150*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A (Continued)

Lab Sample ID: 11F3179-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010417 **Prep Batch: 11F3179_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0333		mg/kg wet		06/14/11 07:35	06/14/11 18:43	1.00
PCB-1221	ND		0.0333		mg/kg wet		06/14/11 07:35	06/14/11 18:43	1.00
PCB-1232	ND		0.0333		mg/kg wet		06/14/11 07:35	06/14/11 18:43	1.00
PCB-1242	ND		0.0333		mg/kg wet		06/14/11 07:35	06/14/11 18:43	1.00
PCB-1248	ND		0.0333		mg/kg wet		06/14/11 07:35	06/14/11 18:43	1.00
PCB-1254	ND		0.0333		mg/kg wet		06/14/11 07:35	06/14/11 18:43	1.00
PCB-1260	ND		0.0333		mg/kg wet		06/14/11 07:35	06/14/11 18:43	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*88*		*19 - 147*	*06/14/11 07:35*	*06/14/11 18:43*	*1.00*
Decachlorobiphenyl	*116*		*20 - 150*	*06/14/11 07:35*	*06/14/11 18:43*	*1.00*

Lab Sample ID: 11F3179-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010417 **Prep Batch: 11F3179_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
PCB-1016			0.167	0.169		mg/kg wet		102	64 - 122		
PCB-1260			0.167	0.171		mg/kg wet		103	56 - 150		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-meta-xylene	*88*		*19 - 147*
Decachlorobiphenyl	*110*		*20 - 150*

Lab Sample ID: 11F3179-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010417 **Prep Batch: 11F3179_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
PCB-1016	ND		0.198	0.249		mg/kg dry	☼	126	20 - 175		
PCB-1260	0.210		0.198	0.298	M7	mg/kg dry	☼	44	51 - 159		

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
Tetrachloro-meta-xylene	*62*		*19 - 147*
Decachlorobiphenyl	*296*	*ZX*	*20 - 150*

Lab Sample ID: 11F3179-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010417 **Prep Batch: 11F3179_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
PCB-1016	ND		0.198	0.201		mg/kg dry	☼	102	20 - 175	21	50
PCB-1260	0.210		0.198	0.367		mg/kg dry	☼	79	51 - 159	21	36

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Tetrachloro-meta-xylene	*64*		*19 - 147*
Decachlorobiphenyl	*138*		*20 - 150*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Lab Sample ID: 11F3237-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3237 **Prep Batch: 11F3237_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.986		mg/kg wet		06/13/11 10:43	06/14/11 11:54	1.00
Barium	ND		1.97		mg/kg wet		06/13/11 10:43	06/14/11 11:54	1.00
Cadmium	ND		0.986		mg/kg wet		06/13/11 10:43	06/14/11 11:54	1.00
Chromium	ND		0.986		mg/kg wet		06/13/11 10:43	06/14/11 11:54	1.00
Lead	ND		0.986		mg/kg wet		06/13/11 10:43	06/14/11 11:54	1.00
Selenium	ND		1.97		mg/kg wet		06/13/11 10:43	06/14/11 11:54	1.00
Silver	ND		0.986		mg/kg wet		06/13/11 10:43	06/14/11 11:54	1.00

Lab Sample ID: 11F3237-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3237 **Prep Batch: 11F3237_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	19.7	19.5		mg/kg wet		99	80 - 120
Barium	787	809		mg/kg wet		103	80 - 120
Cadmium	19.7	21.0		mg/kg wet		106	80 - 120
Chromium	78.7	85.1		mg/kg wet		108	80 - 120
Lead	19.7	21.6		mg/kg wet		110	80 - 120
Selenium	19.7	20.4		mg/kg wet		103	80 - 120
Silver	19.7	20.2		mg/kg wet		103	75 - 125

Lab Sample ID: 11F3237-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3237 **Prep Batch: 11F3237_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	19.4	18.1		mg/kg wet		93	80 - 120	7	20
Barium	777	769		mg/kg wet		99	80 - 120	5	20
Cadmium	19.4	19.5		mg/kg wet		100	80 - 120	7	20
Chromium	77.7	79.2		mg/kg wet		102	80 - 120	7	20
Lead	19.4	20.0		mg/kg wet		103	80 - 120	8	20
Selenium	19.4	19.1		mg/kg wet		98	80 - 120	6	20
Silver	19.4	19.0		mg/kg wet		98	75 - 125	6	20

Lab Sample ID: 11F3237-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3237 **Prep Batch: 11F3237_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	6.29		23.9	28.3		mg/kg dry	☼	92	75 - 125
Barium	218		958	1130		mg/kg dry	☼	95	75 - 125
Cadmium	2.65		23.9	23.7		mg/kg dry	☼	88	75 - 125
Chromium	23.2		95.8	114		mg/kg dry	☼	95	75 - 125
Lead	203		23.9	162	MHA	mg/kg dry	☼	-173	75 - 125
Selenium	2.35		23.9	23.7		mg/kg dry	☼	89	75 - 125
Silver	ND		23.9	22.5		mg/kg dry	☼	94	75 - 125

Method: SW846 6010B - Total Metals by EPA Method 6010B (Continued)

Lab Sample ID: 11F3237-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3237 **Prep Batch: 11F3237_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	6.29		24.1	28.6		mg/kg dry	☼	92	75 - 125	0.9	20
Barium	218		963	1130		mg/kg dry	☼	95	75 - 125	0.6	20
Cadmium	2.65		24.1	23.6		mg/kg dry	☼	87	75 - 125	0.4	20
Chromium	23.2		96.3	114		mg/kg dry	☼	94	75 - 125	0.4	20
Lead	203		24.1	84.7	MHA R3	mg/kg dry	☼	-491	75 - 125	62	20
Selenium	2.35		24.1	24.3		mg/kg dry	☼	91	75 - 125	2	20
Silver	ND		24.1	22.6		mg/kg dry	☼	94	75 - 125	0.7	20

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Lab Sample ID: 11F3255-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3255 **Prep Batch: 11F3255_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.096		mg/kg wet		06/13/11 15:40	06/14/11 14:46	1.0

Lab Sample ID: 11F3255-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3255 **Prep Batch: 11F3255_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.164	0.16		mg/kg wet		96	80 - 120

Lab Sample ID: 11F3255-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3255 **Prep Batch: 11F3255_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.166	0.16		mg/kg wet		94	80 - 120	0.4	20

Lab Sample ID: 11F3255-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3255 **Prep Batch: 11F3255_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.32		0.196	0.44	M8	mg/kg dry	☼	62	75 - 125

Lab Sample ID: 11F3255-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3255 **Prep Batch: 11F3255_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.32		0.198	0.30	M8 R3	mg/kg dry	☼	-9	75 - 125	38	20

Method: SW-846 - General Chemistry Parameters

Lab Sample ID: 11F3259-DUP1 **Client Sample ID: Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3259 **Prep Batch: 11F3259_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Dry Solids	72.2			71.2		%				1	20

Lab Sample ID: 11F3262-DUP1 **Client Sample ID: F-10**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3262 **Prep Batch: 11F3262_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Dry Solids	78.9			82.4		%				4	20

QC Association Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1717

GCMS Volatiles

Analysis Batch: U010605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3200-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11F3200_P
11F3200-BLK1	Method Blank	Total	Soil	SW846 8260B	11F3200_P
NUF1717-02	F-11	Total	Soil	SW846 8260B	11F3200_P
NUF1717-03	F-SU(0-1')	Total	Soil	SW846 8260B	11F3200_P
NUF1717-05	F-04A(2-3')	Total	Soil	SW846 8260B	11F3200_P
NUF1717-06	F-04A(5-7')	Total	Soil	SW846 8260B	11F3200_P
NUF1717-07	F-01B(1-2')	Total	Soil	SW846 8260B	11F3200_P
NUF1717-08	F-01B(4-6')	Total	Soil	SW846 8260B	11F3200_P
11F3200-MS1	F-01B(4-6')	Total	Soil	SW846 8260B	11F3200_P

Analysis Batch: U010632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4122-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11F4122_P
11F4122-BLK2	Method Blank	Total	Soil	SW846 8260B	11F4122_P
11F4122-BLK1	Method Blank	Total	Soil	SW846 8260B	11F4122_P
NUF1717-01 - RE1	F-SD(0-1')	Total	Soil	SW846 8260B	11F4122_P
NUF1717-01 - RE2	F-SD(0-1')	Total	Soil	SW846 8260B	11F4122_P
NUF1717-04	F-10	Total	Soil	SW846 8260B	11F4122_P
11F4122-MS1	Matrix Spike	Total	Soil	SW846 8260B	11F4122_P
11F4122-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8260B	11F4122_P

Prep Batch: 11F3200_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3200-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11F3200-BLK1	Method Blank	Total	Soil	EPA 5035	
NUF1717-02	F-11	Total	Soil	EPA 5035	
NUF1717-03	F-SU(0-1')	Total	Soil	EPA 5035	
NUF1717-05	F-04A(2-3')	Total	Soil	EPA 5035	
NUF1717-06	F-04A(5-7')	Total	Soil	EPA 5035	
NUF1717-07	F-01B(1-2')	Total	Soil	EPA 5035	
NUF1717-08	F-01B(4-6')	Total	Soil	EPA 5035	
11F3200-MS1	F-01B(4-6')	Total	Soil	EPA 5035	

Prep Batch: 11F4122_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4122-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11F4122-BLK2	Method Blank	Total	Soil	EPA 5035	
11F4122-BLK1	Method Blank	Total	Soil	EPA 5035	
NUF1717-01 - RE1	F-SD(0-1')	Total	Soil	EPA 5035	
NUF1717-01 - RE2	F-SD(0-1')	Total	Soil	EPA 5035	
NUF1717-04	F-10	Total	Soil	EPA 5035	
11F4122-MS1	Matrix Spike	Total	Soil	EPA 5035	
11F4122-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 5035	

GCMS Semivolatiles

Analysis Batch: 11F3181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3181-BLK1	Method Blank	Total	Soil	SW846 8270D	11F3181_P
11F3181-BS1	Lab Control Sample	Total	Soil	SW846 8270D	11F3181_P
11F3181-MS1	F-04A(5-7')	Total	Soil	SW846 8270D	11F3181_P
11F3181-MSD1	F-04A(5-7')	Total	Soil	SW846 8270D	11F3181_P

GCMS Semivolatiles (Continued)

Analysis Batch: 11F3181 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUF1717-06	F-04A(5-7')	Total	Soil	SW846 8270D	11F3181_P
NUF1717-07	F-01B(1-2')	Total	Soil	SW846 8270D	11F3181_P
NUF1717-08	F-01B(4-6')	Total	Soil	SW846 8270D	11F3181_P

Analysis Batch: 11F3190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3190-BLK1	Method Blank	Total	Soil	SW846 8270D	11F3190_P
11F3190-BS1	Lab Control Sample	Total	Soil	SW846 8270D	11F3190_P
11F3190-MS1	Matrix Spike	Total	Soil	SW846 8270D	11F3190_P
11F3190-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8270D	11F3190_P
NUF1717-02	F-11	Total	Soil	SW846 8270D	11F3190_P
NUF1717-03	F-SU(0-1')	Total	Soil	SW846 8270D	11F3190_P
NUF1717-05	F-04A(2-3')	Total	Soil	SW846 8270D	11F3190_P
NUF1717-01	F-SD(0-1')	Total	Soil	SW846 8270D	11F3190_P
NUF1717-04	F-10	Total	Soil	SW846 8270D	11F3190_P

Prep Batch: 11F3181_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3181-BLK1	Method Blank	Total	Soil	EPA 3550C	
11F3181-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
11F3181-MS1	F-04A(5-7')	Total	Soil	EPA 3550C	
11F3181-MSD1	F-04A(5-7')	Total	Soil	EPA 3550C	
NUF1717-06	F-04A(5-7')	Total	Soil	EPA 3550C	
NUF1717-07	F-01B(1-2')	Total	Soil	EPA 3550C	
NUF1717-08	F-01B(4-6')	Total	Soil	EPA 3550C	

Prep Batch: 11F3190_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3190-BLK1	Method Blank	Total	Soil	EPA 3550C	
11F3190-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
11F3190-MS1	Matrix Spike	Total	Soil	EPA 3550C	
11F3190-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 3550C	
NUF1717-02	F-11	Total	Soil	EPA 3550C	
NUF1717-03	F-SU(0-1')	Total	Soil	EPA 3550C	
NUF1717-05	F-04A(2-3')	Total	Soil	EPA 3550C	
NUF1717-01	F-SD(0-1')	Total	Soil	EPA 3550C	
NUF1717-04	F-10	Total	Soil	EPA 3550C	

GC Volatiles

Analysis Batch: U010504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3316-BS1	Lab Control Sample	Total	Soil	SW846 8015B	11F3316_P
11F3316-BS2	Lab Control Sample	Total	Soil	SW846 8015B	11F3316_P
11F3316-BLK1	Method Blank	Total	Soil	SW846 8015B	11F3316_P
11F3316-BLK2	Method Blank	Total	Soil	SW846 8015B	11F3316_P
11F3316-BLK3	Method Blank	Total	Soil	SW846 8015B	11F3316_P
11F3316-BLK4	Method Blank	Total	Soil	SW846 8015B	11F3316_P
NUF1717-01	F-SD(0-1')	Total	Soil	SW846 8015B	11F3316_P
NUF1717-02	F-11	Total	Soil	SW846 8015B	11F3316_P
NUF1717-03	F-SU(0-1')	Total	Soil	SW846 8015B	11F3316_P
NUF1717-04	F-10	Total	Soil	SW846 8015B	11F3316_P

GC Volatiles (Continued)

Analysis Batch: U010504 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUF1717-05	F-04A(2-3')	Total	Soil	SW846 8015B	11F3316_P
NUF1717-06	F-04A(5-7')	Total	Soil	SW846 8015B	11F3316_P
NUF1717-07	F-01B(1-2')	Total	Soil	SW846 8015B	11F3316_P
NUF1717-08	F-01B(4-6')	Total	Soil	SW846 8015B	11F3316_P
11F3316-MS1	Matrix Spike	Total	Soil	SW846 8015B	11F3316_P
11F3316-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8015B	11F3316_P
11F3316-MS2	F-01B(4-6')	Total	Soil	SW846 8015B	11F3316_P
11F3316-MSD2	F-01B(4-6')	Total	Soil	SW846 8015B	11F3316_P
11F3316-MS3	Matrix Spike	Total	Soil	SW846 8015B	11F3316_P
11F3316-MSD3	Matrix Spike Duplicate	Total	Soil	SW846 8015B	11F3316_P

Prep Batch: 11F3316_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3316-BS1	Lab Control Sample	Total	Soil	EPA 5035A (GC)	
11F3316-BS2	Lab Control Sample	Total	Soil	EPA 5035A (GC)	
11F3316-BLK1	Method Blank	Total	Soil	EPA 5035A (GC)	
11F3316-BLK2	Method Blank	Total	Soil	EPA 5035A (GC)	
11F3316-BLK3	Method Blank	Total	Soil	EPA 5035A (GC)	
11F3316-BLK4	Method Blank	Total	Soil	EPA 5035A (GC)	
NUF1717-01	F-SD(0-1')	Total	Soil	EPA 5035A (GC)	
NUF1717-02	F-11	Total	Soil	EPA 5035A (GC)	
NUF1717-03	F-SU(0-1')	Total	Soil	EPA 5035A (GC)	
NUF1717-04	F-10	Total	Soil	EPA 5035A (GC)	
NUF1717-05	F-04A(2-3')	Total	Soil	EPA 5035A (GC)	
NUF1717-06	F-04A(5-7')	Total	Soil	EPA 5035A (GC)	
NUF1717-07	F-01B(1-2')	Total	Soil	EPA 5035A (GC)	
NUF1717-08	F-01B(4-6')	Total	Soil	EPA 5035A (GC)	
11F3316-MS1	Matrix Spike	Total	Soil	EPA 5035A (GC)	
11F3316-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 5035A (GC)	
11F3316-MS2	F-01B(4-6')	Total	Soil	EPA 5035A (GC)	
11F3316-MSD2	F-01B(4-6')	Total	Soil	EPA 5035A (GC)	
11F3316-MS3	Matrix Spike	Total	Soil	EPA 5035A (GC)	
11F3316-MSD3	Matrix Spike Duplicate	Total	Soil	EPA 5035A (GC)	

GC Semivolatiles

Analysis Batch: U010614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3196-BS1	Lab Control Sample	Total	Soil	SW846 8015B	11F3196_P
11F3196-MS1	Matrix Spike	Total	Soil	SW846 8015B	11F3196_P
11F3196-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8015B	11F3196_P

GC Semivolatiles (Continued)

Analysis Batch: U010614 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUF1717-04	F-10	Total	Soil	SW846 8015B	11F3196_P

Analysis Batch: U010796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3196-BLK1	Method Blank	Total	Soil	SW846 8015B	11F3196_P
NUF1717-03	F-SU(0-1')	Total	Soil	SW846 8015B	11F3196_P
NUF1717-02	F-11	Total	Soil	SW846 8015B	11F3196_P
NUF1717-05	F-04A(2-3')	Total	Soil	SW846 8015B	11F3196_P
NUF1717-06	F-04A(5-7')	Total	Soil	SW846 8015B	11F3196_P
NUF1717-08	F-01B(4-6')	Total	Soil	SW846 8015B	11F3196_P
NUF1717-07 - RE1	F-01B(1-2')	Total	Soil	SW846 8015B	11F3196_P
NUF1717-01 - RE1	F-SD(0-1')	Total	Soil	SW846 8015B	11F3196_P

Prep Batch: 11F3196_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3196-BS1	Lab Control Sample	Total	Soil	EPA 3550B	
11F3196-MS1	Matrix Spike	Total	Soil	EPA 3550B	
11F3196-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 3550B	
NUF1717-04	F-10	Total	Soil	EPA 3550B	
11F3196-BLK1	Method Blank	Total	Soil	EPA 3550B	
NUF1717-03	F-SU(0-1')	Total	Soil	EPA 3550B	
NUF1717-02	F-11	Total	Soil	EPA 3550B	
NUF1717-05	F-04A(2-3')	Total	Soil	EPA 3550B	
NUF1717-06	F-04A(5-7')	Total	Soil	EPA 3550B	
NUF1717-08	F-01B(4-6')	Total	Soil	EPA 3550B	
NUF1717-07 - RE1	F-01B(1-2')	Total	Soil	EPA 3550B	
NUF1717-01 - RE1	F-SD(0-1')	Total	Soil	EPA 3550B	

Pesticides

Analysis Batch: U010417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3179-BLK1	Method Blank	Total	Soil	SW846 8082A	11F3179_P
11F3179-BS1	Lab Control Sample	Total	Soil	SW846 8082A	11F3179_P
11F3179-MS1	Matrix Spike	Total	Soil	SW846 8082A	11F3179_P
11F3179-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8082A	11F3179_P
NUF1717-01	F-SD(0-1')	Total	Soil	SW846 8082A	11F3179_P
NUF1717-02	F-11	Total	Soil	SW846 8082A	11F3179_P
NUF1717-03	F-SU(0-1')	Total	Soil	SW846 8082A	11F3179_P
NUF1717-04 - RE1	F-10	Total	Soil	SW846 8082A	11F3179_P
NUF1717-05	F-04A(2-3')	Total	Soil	SW846 8082A	11F3179_P
NUF1717-07 - RE1	F-01B(1-2')	Total	Soil	SW846 8082A	11F3177_P

Analysis Batch: U010419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3177-BLK1	Method Blank	Total	Soil	SW846 8082A	11F3177_P
11F3177-BS1	Lab Control Sample	Total	Soil	SW846 8082A	11F3177_P
11F3177-MS1	F-04A(5-7')	Total	Soil	SW846 8082A	11F3177_P
11F3177-MSD1	F-04A(5-7')	Total	Soil	SW846 8082A	11F3177_P
NUF1717-06	F-04A(5-7')	Total	Soil	SW846 8082A	11F3177_P
NUF1717-08	F-01B(4-6')	Total	Soil	SW846 8082A	11F3177_P

Pesticides (Continued)

Prep Batch: 11F3177_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3177-BLK1	Method Blank	Total	Soil	EPA 3550C/3665A	
11F3177-BS1	Lab Control Sample	Total	Soil	EPA 3550C/3665A	
11F3177-MS1	F-04A(5-7')	Total	Soil	EPA 3550C/3665A	
11F3177-MSD1	F-04A(5-7')	Total	Soil	EPA 3550C/3665A	
NUF1717-06	F-04A(5-7')	Total	Soil	EPA 3550C/3665A	
NUF1717-08	F-01B(4-6')	Total	Soil	EPA 3550C/3665A	
NUF1717-07 - RE1	F-01B(1-2')	Total	Soil	EPA 3550C/3665A	

Prep Batch: 11F3179_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3179-BLK1	Method Blank	Total	Soil	EPA 3550C/3665A	
11F3179-BS1	Lab Control Sample	Total	Soil	EPA 3550C/3665A	
11F3179-MS1	Matrix Spike	Total	Soil	EPA 3550C/3665A	
11F3179-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 3550C/3665A	
NUF1717-01	F-SD(0-1')	Total	Soil	EPA 3550C/3665A	
NUF1717-02	F-11	Total	Soil	EPA 3550C/3665A	
NUF1717-03	F-SU(0-1')	Total	Soil	EPA 3550C/3665A	
NUF1717-04 - RE1	F-10	Total	Soil	EPA 3550C/3665A	
NUF1717-05	F-04A(2-3')	Total	Soil	EPA 3550C/3665A	

Metals

Analysis Batch: 11F3237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3237-BLK1	Method Blank	Total	Soil	SW846 6010B	11F3237_P
11F3237-BS1	Lab Control Sample	Total	Soil	SW846 6010B	11F3237_P
11F3237-BSD1	Lab Control Sample Dup	Total	Soil	SW846 6010B	11F3237_P
11F3237-MS1	Matrix Spike	Total	Soil	SW846 6010B	11F3237_P
11F3237-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 6010B	11F3237_P
NUF1717-01	F-SD(0-1')	Total	Soil	SW846 6010B	11F3237_P
NUF1717-02	F-11	Total	Soil	SW846 6010B	11F3237_P
NUF1717-03	F-SU(0-1')	Total	Soil	SW846 6010B	11F3237_P
NUF1717-05	F-04A(2-3')	Total	Soil	SW846 6010B	11F3237_P
NUF1717-06	F-04A(5-7')	Total	Soil	SW846 6010B	11F3237_P
NUF1717-07	F-01B(1-2')	Total	Soil	SW846 6010B	11F3237_P
NUF1717-08	F-01B(4-6')	Total	Soil	SW846 6010B	11F3237_P
NUF1717-04	F-10	Total	Soil	SW846 6010B	11F3237_P

Analysis Batch: 11F3255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3255-BLK1	Method Blank	Total	Soil	SW846 7471A	11F3255_P
11F3255-BS1	Lab Control Sample	Total	Soil	SW846 7471A	11F3255_P
11F3255-BSD1	Lab Control Sample Dup	Total	Soil	SW846 7471A	11F3255_P

Metals (Continued)

Analysis Batch: 11F3255 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3255-MS1	Matrix Spike	Total	Soil	SW846 7471A	11F3255_P
11F3255-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 7471A	11F3255_P
NUF1717-01	F-SD(0-1')	Total	Soil	SW846 7471A	11F3255_P
NUF1717-02	F-11	Total	Soil	SW846 7471A	11F3255_P
NUF1717-03	F-SU(0-1')	Total	Soil	SW846 7471A	11F3255_P
NUF1717-05	F-04A(2-3')	Total	Soil	SW846 7471A	11F3255_P
NUF1717-06	F-04A(5-7')	Total	Soil	SW846 7471A	11F3255_P
NUF1717-07	F-01B(1-2')	Total	Soil	SW846 7471A	11F3255_P
NUF1717-08	F-01B(4-6')	Total	Soil	SW846 7471A	11F3255_P
NUF1717-04	F-10	Total	Soil	SW846 7471A	11F3255_P

Prep Batch: 11F3237_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3237-BLK1	Method Blank	Total	Soil	EPA 3051A/6010	
11F3237-BS1	Lab Control Sample	Total	Soil	EPA 3051A/6010	
11F3237-BSD1	Lab Control Sample Dup	Total	Soil	EPA 3051A/6010	
11F3237-MS1	Matrix Spike	Total	Soil	EPA 3051A/6010	
11F3237-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 3051A/6010	
NUF1717-01	F-SD(0-1')	Total	Soil	EPA 3051A/6010	
NUF1717-02	F-11	Total	Soil	EPA 3051A/6010	
NUF1717-03	F-SU(0-1')	Total	Soil	EPA 3051A/6010	
NUF1717-05	F-04A(2-3')	Total	Soil	EPA 3051A/6010	
NUF1717-06	F-04A(5-7')	Total	Soil	EPA 3051A/6010	
NUF1717-07	F-01B(1-2')	Total	Soil	EPA 3051A/6010	
NUF1717-08	F-01B(4-6')	Total	Soil	EPA 3051A/6010	
NUF1717-04	F-10	Total	Soil	EPA 3051A/6010	

Prep Batch: 11F3255_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3255-BLK1	Method Blank	Total	Soil	EPA 7471	
11F3255-BS1	Lab Control Sample	Total	Soil	EPA 7471	
11F3255-BSD1	Lab Control Sample Dup	Total	Soil	EPA 7471	
11F3255-MS1	Matrix Spike	Total	Soil	EPA 7471	
11F3255-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 7471	
NUF1717-01	F-SD(0-1')	Total	Soil	EPA 7471	
NUF1717-02	F-11	Total	Soil	EPA 7471	
NUF1717-03	F-SU(0-1')	Total	Soil	EPA 7471	
NUF1717-05	F-04A(2-3')	Total	Soil	EPA 7471	
NUF1717-06	F-04A(5-7')	Total	Soil	EPA 7471	
NUF1717-07	F-01B(1-2')	Total	Soil	EPA 7471	
NUF1717-08	F-01B(4-6')	Total	Soil	EPA 7471	
NUF1717-04	F-10	Total	Soil	EPA 7471	

QC Association Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1717

Extractions

Analysis Batch: 11F3259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3259-DUP1	Duplicate	Total	Soil	SW-846	11F3259_P
NUF1717-01	F-SD(0-1')	Total	Soil	SW-846	11F3259_P
NUF1717-02	F-11	Total	Soil	SW-846	11F3259_P
NUF1717-03	F-SU(0-1')	Total	Soil	SW-846	11F3259_P
NUF1717-05	F-04A(2-3')	Total	Soil	SW-846	11F3259_P
NUF1717-06	F-04A(5-7')	Total	Soil	SW-846	11F3259_P
NUF1717-07	F-01B(1-2')	Total	Soil	SW-846	11F3259_P
NUF1717-08	F-01B(4-6')	Total	Soil	SW-846	11F3259_P

Analysis Batch: 11F3262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3262-DUP1	F-10	Total	Soil	SW-846	11F3262_P
NUF1717-04	F-10	Total	Soil	SW-846	11F3262_P

Prep Batch: 11F3259_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3259-DUP1	Duplicate	Total	Soil	% Solids	
NUF1717-01	F-SD(0-1')	Total	Soil	% Solids	
NUF1717-02	F-11	Total	Soil	% Solids	
NUF1717-03	F-SU(0-1')	Total	Soil	% Solids	
NUF1717-05	F-04A(2-3')	Total	Soil	% Solids	
NUF1717-06	F-04A(5-7')	Total	Soil	% Solids	
NUF1717-07	F-01B(1-2')	Total	Soil	% Solids	
NUF1717-08	F-01B(4-6')	Total	Soil	% Solids	

Prep Batch: 11F3262_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3262-DUP1	F-10	Total	Soil	% Solids	
NUF1717-04	F-10	Total	Soil	% Solids	

Client Sample ID: F-SD(0-1')

Lab Sample ID: NUF1717-01

Date Collected: 06/08/11 14:30
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035	RE1	0.971	11F4122_P	06/14/11 08:00	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U010632	06/16/11 12:18	KXC	TAL NSH
Total	Prep	EPA 5035	RE2	0.923	11F4122_P	06/14/11 08:00	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE2	50.0	U010632	06/16/11 12:49	KXC	TAL NSH
Total	Prep	EPA 3550C		1.99	11F3190_P	06/13/11 14:35	JJR	TAL NSH
Total	Analysis	SW846 8270D		2.00	11F3190	06/14/11 21:12	KJP	TAL NSH
Total	Prep	EPA 5035A (GC)		0.923	11F3316_P	06/14/11 08:00	TSP	TAL NSH
Total	Analysis	SW846 8015B		50.0	U010504	06/14/11 17:20	SSN	TAL NSH
Total	Prep	EPA 3550B	RE1	1.96	11F3196_P	06/14/11 09:00	JJR	TAL NSH
Total	Analysis	SW846 8015B	RE1	10.0	U010796	06/17/11 23:08	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.986	11F3179_P	06/14/11 07:35	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010417	06/14/11 20:31	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		1.00	11F3237_P	06/13/11 10:43	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3237	06/14/11 12:43	LTB	TAL NSH
Total	Prep	EPA 7471		1.0	11F3255_P	06/13/11 15:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3255	06/14/11 15:21	MB	TAL NSH
Total	Prep	% Solids		1.00	11F3259_P	06/14/11 11:56	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11F3259	06/15/11 10:18	AMS	TAL NSH

Client Sample ID: F-11

Lab Sample ID: NUF1717-02

Date Collected: 06/08/11 15:30
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.594	11F3200_P	06/14/11 08:05	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010605	06/16/11 03:05	KXC	TAL NSH
Total	Prep	EPA 3550C		0.977	11F3190_P	06/13/11 14:35	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3190	06/14/11 19:48	KJP	TAL NSH
Total	Prep	EPA 5035A (GC)		0.929	11F3316_P	06/14/11 08:05	TSP	TAL NSH
Total	Analysis	SW846 8015B		50.0	U010504	06/14/11 17:37	SSN	TAL NSH
Total	Prep	EPA 3550B		0.974	11F3196_P	06/14/11 09:00	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010796	06/17/11 19:08	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.999	11F3179_P	06/14/11 07:35	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010417	06/14/11 20:53	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.960	11F3237_P	06/13/11 10:43	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3237	06/14/11 12:57	LTB	TAL NSH
Total	Prep	EPA 7471		0.96	11F3255_P	06/13/11 15:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3255	06/14/11 15:24	MB	TAL NSH
Total	Prep	% Solids		1.00	11F3259_P	06/14/11 11:56	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11F3259	06/15/11 10:18	AMS	TAL NSH

Client Sample ID: F-SU(0-1') Lab Sample ID: NUF1717-03

Date Collected: 06/08/11 11:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 81**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.919	11F3200_P	06/14/11 08:08	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010605	06/16/11 03:35	KXC	TAL NSH
Total	Prep	EPA 3550C		0.985	11F3190_P	06/13/11 14:35	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3190	06/14/11 20:09	KJP	TAL NSH
Total	Prep	EPA 5035A (GC)		0.916	11F3316_P	06/14/11 08:08	TSP	TAL NSH
Total	Analysis	SW846 8015B		50.0	U010504	06/14/11 17:54	SSN	TAL NSH
Total	Prep	EPA 3550B		0.985	11F3196_P	06/14/11 09:00	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010796	06/17/11 18:44	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.981	11F3179_P	06/14/11 07:35	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010417	06/14/11 21:15	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.984	11F3237_P	06/13/11 10:43	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3237	06/14/11 13:00	LTB	TAL NSH
Total	Prep	EPA 7471		0.97	11F3255_P	06/13/11 15:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3255	06/14/11 15:26	MB	TAL NSH
Total	Prep	% Solids		1.00	11F3259_P	06/14/11 11:56	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11F3259	06/15/11 10:18	AMS	TAL NSH

Client Sample ID: F-10 Lab Sample ID: NUF1717-04

Date Collected: 06/08/11 09:20 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 78.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.907	11F4122_P	06/14/11 08:12	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010632	06/16/11 13:20	KXC	TAL NSH
Total	Prep	EPA 3550C		9.93	11F3190_P	06/13/11 14:35	JJR	TAL NSH
Total	Analysis	SW846 8270D		5.00	11F3190	06/14/11 22:15	KJP	TAL NSH
Total	Prep	EPA 5035A (GC)		0.909	11F3316_P	06/14/11 08:12	TSP	TAL NSH
Total	Analysis	SW846 8015B		50.0	U010504	06/14/11 18:11	SSN	TAL NSH
Total	Prep	EPA 3550B		1.96	11F3196_P	06/14/11 09:00	JJR	TAL NSH
Total	Analysis	SW846 8015B		25.0	U010614	06/16/11 05:16	JLF	TAL NSH
Total	Prep	EPA 3550C/3665A	RE1	0.977	11F3179_P	06/14/11 07:35	JJR	TAL NSH
Total	Analysis	SW846 8082A	RE1	20.0	U010417	06/15/11 12:52	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.978	11F3237_P	06/13/11 10:43	RSO	TAL NSH
Total	Analysis	SW846 6010B		10.0	11F3237	06/14/11 23:21	LTB	TAL NSH
Total	Prep	EPA 7471		0.97	11F3255_P	06/13/11 15:40	MB	TAL NSH
Total	Analysis	SW846 7471A		2.0	11F3255	06/15/11 10:27	MB	TAL NSH
Total	Prep	% Solids		1.00	11F3262_P	06/14/11 12:21	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11F3262	06/15/11 10:00	AMS	TAL NSH

Client Sample ID: F-04A(2-3') Lab Sample ID: NUF1717-05

Date Collected: 06/08/11 10:35 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 75.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.887	11F3200_P	06/14/11 08:16	TSP	TAL NSH

Client Sample ID: F-04A(2-3') Lab Sample ID: NUF1717-05

Date Collected: 06/08/11 10:35 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 75.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Analysis	SW846 8260B		1.00	U010605	06/16/11 04:06	KXC	TAL NSH
Total	Prep	EPA 3550C		0.979	11F3190_P	06/13/11 14:35	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3190	06/14/11 20:30	KJP	TAL NSH
Total	Prep	EPA 5035A (GC)		0.988	11F3316_P	06/14/11 08:16	TSP	TAL NSH
Total	Analysis	SW846 8015B		50.0	U010504	06/14/11 18:28	SSN	TAL NSH
Total	Prep	EPA 3550B		0.988	11F3196_P	06/14/11 09:00	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010796	06/17/11 19:32	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.979	11F3179_P	06/14/11 07:35	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010417	06/15/11 20:48	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		1.01	11F3237_P	06/13/11 10:43	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3237	06/14/11 13:06	LTB	TAL NSH
Total	Prep	EPA 7471		0.97	11F3255_P	06/13/11 15:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3255	06/14/11 15:38	MB	TAL NSH
Total	Prep	% Solids		1.00	11F3259_P	06/14/11 11:56	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11F3259	06/15/11 10:18	AMS	TAL NSH

Client Sample ID: F-04A(5-7') Lab Sample ID: NUF1717-06

Date Collected: 06/08/11 10:45 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 104.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.845	11F3200_P	06/14/11 08:18	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010605	06/16/11 04:37	KXC	TAL NSH
Total	Prep	EPA 3550C		0.986	11F3181_P	06/13/11 15:29	KDJ	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3181	06/14/11 14:03	BES	TAL NSH
Total	Prep	EPA 5035A (GC)		0.963	11F3316_P	06/14/11 08:18	TSP	TAL NSH
Total	Analysis	SW846 8015B		50.0	U010504	06/14/11 18:46	SSN	TAL NSH
Total	Prep	EPA 3550B		0.970	11F3196_P	06/14/11 09:00	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010796	06/17/11 20:44	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.980	11F3177_P	06/14/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010419	06/14/11 19:24	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.975	11F3237_P	06/13/11 10:43	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3237	06/14/11 13:10	LTB	TAL NSH
Total	Prep	EPA 7471		0.96	11F3255_P	06/13/11 15:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3255	06/14/11 15:40	MB	TAL NSH
Total	Prep	% Solids		1.00	11F3259_P	06/14/11 11:56	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11F3259	06/15/11 10:18	AMS	TAL NSH

Client Sample ID: F-01B(1-2') Lab Sample ID: NUF1717-07

Date Collected: 06/08/11 07:50 **Matrix: Soil**
Date Received: 06/09/11 08:55 **Percent Solids: 75.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.870	11F3200_P	06/14/11 08:20	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010605	06/16/11 05:07	KXC	TAL NSH

Client Sample ID: F-01B(1-2')

Lab Sample ID: NUF1717-07
Date Collected: 06/08/11 07:50
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3550C		0.981	11F3181_P	06/13/11 15:29	KDJ	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3181	06/14/11 14:23	BES	TAL NSH
Total	Prep	EPA 5035A (GC)		0.909	11F3316_P	06/14/11 08:20	TSP	TAL NSH
Total	Analysis	SW846 8015B		50.0	U010504	06/14/11 19:03	SSN	TAL NSH
Total	Prep	EPA 3550B	RE1	0.992	11F3196_P	06/14/11 09:00	JJR	TAL NSH
Total	Analysis	SW846 8015B	RE1	10.0	U010796	06/17/11 22:44	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A	RE1	0.980	11F3177_P	06/14/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8082A	RE1	2.00	U010417	06/15/11 22:58	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		1.00	11F3237_P	06/13/11 10:43	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3237	06/14/11 13:13	LTB	TAL NSH
Total	Prep	EPA 7471		0.96	11F3255_P	06/13/11 15:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3255	06/14/11 15:43	MB	TAL NSH
Total	Prep	% Solids		1.00	11F3259_P	06/14/11 11:56	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11F3259	06/15/11 10:18	AMS	TAL NSH

Client Sample ID: F-01B(4-6')

Lab Sample ID: NUF1717-08
Date Collected: 06/08/11 08:25
Matrix: Soil
Date Received: 06/09/11 08:55
Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.984	11F3200_P	06/14/11 08:22	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010605	06/16/11 05:38	KXC	TAL NSH
Total	Prep	EPA 3550C		0.998	11F3181_P	06/13/11 15:29	KDJ	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3181	06/14/11 14:43	BES	TAL NSH
Total	Prep	EPA 5035A (GC)		0.943	11F3316_P	06/14/11 08:22	TSP	TAL NSH
Total	Analysis	SW846 8015B		50.0	U010504	06/14/11 19:20	SSN	TAL NSH
Total	Prep	EPA 3550B		0.976	11F3196_P	06/14/11 09:00	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010796	06/17/11 21:08	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.975	11F3177_P	06/14/11 08:20	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010419	06/14/11 20:08	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		1.01	11F3237_P	06/13/11 10:43	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3237	06/14/11 13:16	LTB	TAL NSH
Total	Prep	EPA 7471		0.99	11F3255_P	06/13/11 15:40	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3255	06/14/11 15:45	MB	TAL NSH
Total	Prep	% Solids		1.00	11F3259_P	06/14/11 11:56	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11F3259	06/15/11 10:18	AMS	TAL NSH

Laboratory References:
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1717

Method	Method Description	Protocol	Laboratory
SW-846	General Chemistry Parameters		TAL NSH
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
SW846 8270D	Semivolatile Organic Compounds by EPA Method 8270D		TAL NSH
SW846 8015B	Purgeable Petroleum Hydrocarbons		TAL NSH
SW846 8015B	Extractable Petroleum Hydrocarbons		TAL NSH
SW846 8082A	Polychlorinated Biphenyls by EPA Method 8082A		TAL NSH
SW846 6010B	Total Metals by EPA Method 6010B		TAL NSH
SW846 7471A	Mercury by EPA Methods 7470A/7471A		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1717

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEI

NUF1717

Cooler Received/Opened On 6/9/2011@ 8:55

1. Tracking # 0052 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 47460373

2. Temperature of rep. sample or temp blank when opened: 10.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where:

5. Were the seals intact, signed, and dated correctly? YES NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (intial) DA

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

12. Did all container labels and tags agree with custody papers? YES NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial)

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO NA

16. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)

17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

18. Did you sign the custody papers in the appropriate place? YES NO NA

19. Were correct containers used for the analysis requested? YES NO NA

20. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial)

I certify that I attached a label with the unique LIMS number to each container (intial)

21. Were there Non-Conformance issues at login? YES NO Was a PIPE generated? YES NO # 59916

TRIP

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

NUF1717
06/20/11 23:59

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404
","Reg District (CA)")

Page 1 of 1

Client: PSC Industrial Outsourcing LP (3797)
Address: 210 West Sand Bank Rd.
City, State, Zip: Columbia IL 62236
Client Invoice Contact: Al Becker
Client Project Mgr: Al Becker
Client Telephone#: (618) 281-1550 Fax: (618) 281-7020
Sampler Name (Print) John Carrow
SamplerSignature:

TA Account #: 3797 PO #:
Invoice to: PSC Industrial Outsourcing LP (3797)
Report to: Al Becker
Project Name: Festus, Missouri
Facility ID: [none]
Reg District (CA):
Site Address: 9th & Delmar
City,State,Zip: Festus Missouri

Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: 8082A PCBs	8260B Volatile Organics	8270D Semivolatile Organics	Metals, RCRA Solid ICP 6010B	Metals, RCRA Water ICP 6010B	Metals, TCLP 6010B	TCLP Extraction Metals	TCLP Standard Extraction	TPH - Diesel Range/Oil Range SW8015	TPH-Gasoline Range SW8015						RUSH TAT (Pre Schedule)*
F-SD (0-1')	6-8-11	1430	2	X										X					X		X	X	X	X					X			01				
F-11	6-8-11	[illegible]	2	X										X					X		X	X	X	X					X			02				
F-SD [illegible]	[illegible]	[illegible]	[illegible]											X					X		X	X	X	X					X			03				
F-10	6-8-11	920	2	X										X					X		X	X	X	X					X			04				
F-04A (2-3')	6-8-11	1035	2	X										X					X		X	X	X	X					X			05				
F-04A (5-7')	6-8-11	1045	2	X										X					X		X	X	X	X					X			06				
F-01B (1-2)	6-8-11	750	3	X										X					X		X	X	X	X					X			07				
F-01B (4-6')	6-8-11	825	2	X										X					X		X	X	X	X					X			08				

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.
* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.
There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES/SPECIAL INSTRUCTIONS: BO # 25017
Contact John Carrow if any questions
618-792-2468
JCarrow@pscnow.com
Ran out of 4 oz JARS
Filled 2-8 oz JAR for Analysis

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
[signature]	6-8-11	1645						
Shipped Via:			Shipped Via:					
Received for TestAmerica by: [signature]	Date: 6/9/11	Time: 855	Temperature Upon Receipt: 10.4	Sample Containers Intact? Y N VOCs Free of Headspace? Y N		QC Deliverables (Please Circle One): Level 2 Level 3 Level 4 Site Specific (If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)		Date Due of Report:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUF1960
Client Project/Site: [none]
Client Project Description: Festus, Missouri

For:
PSC Industrial Outsourcing LP (3797)
210 West Sand Bank Rd.
Columbia, IL 62236

Attn: Al Becker

Madonna Myers

Authorized for release by:
06/21/2011 12:33:02 PM

Madonna Myers
Project Manager
madonna.myers@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Sample Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1960

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUF1960-01	F-02(3')	Soil	06/10/11 08:15	06/11/11 09:00
NUF1960-02	F-02(5-6')	Soil	06/10/11 08:00	06/11/11 09:00
NUF1960-03	F-04C(5-6')	Soil	06/10/11 10:00	06/11/11 09:00
NUF1960-04	F-04C(12-13')	Soil	06/10/11 10:15	06/11/11 09:00
NUF1960-05	F-03B(0-1)	Soil	06/10/11 10:35	06/11/11 09:00
NUF1960-06	F-03C(5-6)	Soil	06/10/11 11:05	06/11/11 09:00

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
PX	Sample for VOA analysis not received in preserved VOA vials or Encore or similar sampling device.
R2	The RPD exceeded the acceptance limit.
RL1	Reporting limit raised due to sample matrix effects.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

GC Semivolatiles

Qualifier	Qualifier Description
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Pesticides

Qualifier	Qualifier Description
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Metals

Qualifier	Qualifier Description
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client Sample ID: F-02(3') Lab Sample ID: NUF1960-01

Date Collected: 06/10/11 08:15 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 78.3**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.158**	**PX**	0.0569		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Benzene	**0.00624**	**PX**	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Bromobenzene	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Bromochloromethane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Bromodichloromethane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Bromoform	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Bromomethane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00569		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
2-Butanone	ND	PX	0.0569		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
sec-Butylbenzene	**0.00565**	**PX**	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
n-Butylbenzene	**0.0387**	**PX**	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
tert-Butylbenzene	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Carbon disulfide	ND	PX	0.00569		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Carbon Tetrachloride	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Chlorobenzene	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Chlorodibromomethane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Chloroethane	ND	PX	0.00569		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Chloroform	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Chloromethane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
2-Chlorotoluene	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
4-Chlorotoluene	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Dibromomethane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,4-Dichlorobenzene	ND	L PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,3-Dichlorobenzene	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,2-Dichlorobenzene	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Dichlorodifluoromethane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,1-Dichloroethane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,2-Dichloroethane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
cis-1,2-Dichloroethene	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,1-Dichloroethene	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
trans-1,2-Dichloroethene	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,3-Dichloropropane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,2-Dichloropropane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
2,2-Dichloropropane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
cis-1,3-Dichloropropene	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
trans-1,3-Dichloropropene	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,1-Dichloropropene	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Ethylbenzene	**0.0245**	**PX**	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Hexachlorobutadiene	ND	PX	0.00569		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
2-Hexanone	ND	PX	0.0569		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Isopropylbenzene	**0.00820**	**L PX**	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
p-Isopropyltoluene	**0.00838**	**PX**	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Methyl tert-Butyl Ether	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Methylene Chloride	ND	PX	0.0114		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
4-Methyl-2-pentanone	ND	PX	0.0569		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Naphthalene	**0.0392**	**PX**	0.00569		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
n-Propylbenzene	**0.0278**	**PX**	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Styrene	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00

Client Sample ID: F-02(3') Lab Sample ID: NUF1960-01

Date Collected: 06/10/11 08:15 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 78.3**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Tetrachloroethene	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Toluene	**0.00892**	**PX**	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,2,3-Trichlorobenzene	ND	L PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,2,4-Trichlorobenzene	ND	L PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,1,2-Trichloroethane	ND	PX	0.00569		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,1,1-Trichloroethane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Trichloroethene	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Trichlorofluoromethane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,2,3-Trichloropropane	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,3,5-Trimethylbenzene	**0.105**	**PX**	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
1,2,4-Trimethylbenzene	**0.204**	**PX**	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Vinyl chloride	ND	PX	0.00228		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00
Xylenes, total	**0.143**	**PX**	0.00569		mg/kg dry	☼	06/16/11 08:20	06/17/11 18:51	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*101*		*67 - 138*	*06/16/11 08:20*	*06/17/11 18:51*	*1.00*
Dibromofluoromethane	*100*		*75 - 125*	*06/16/11 08:20*	*06/17/11 18:51*	*1.00*
Toluene-d8	*104*		*76 - 129*	*06/16/11 08:20*	*06/17/11 18:51*	*1.00*
4-Bromofluorobenzene	*106*		*67 - 147*	*06/16/11 08:20*	*06/17/11 18:51*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Acenaphthylene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Anthracene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Benzo (a) anthracene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Benzo (a) pyrene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Benzo (b) fluoranthene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Benzo (g,h,i) perylene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Benzo (k) fluoranthene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
4-Bromophenyl phenyl ether	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Butyl benzyl phthalate	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Carbazole	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
4-Chloro-3-methylphenol	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
4-Chloroaniline	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Bis(2-chloroethoxy)methane	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Bis(2-chloroethyl)ether	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Bis(2-chloroisopropyl)ether	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
2-Chloronaphthalene	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
2-Chlorophenol	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
4-Chlorophenyl phenyl ether	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Chrysene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Dibenz (a,h) anthracene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Dibenzofuran	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Di-n-butyl phthalate	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
1,4-Dichlorobenzene	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
1,2-Dichlorobenzene	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
1,3-Dichlorobenzene	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
3,3-Dichlorobenzidine	ND		0.828		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
2,4-Dichlorophenol	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00

Client Sample ID: F-02(3') Lab Sample ID: NUF1960-01

Date Collected: 06/10/11 08:15 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 78.3**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
2,4-Dimethylphenol	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Dimethyl phthalate	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
4,6-Dinitro-2-methylphenol	ND		1.03		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
2,4-Dinitrophenol	ND		1.03		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
2,6-Dinitrotoluene	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
2,4-Dinitrotoluene	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Di-n-octyl phthalate	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Bis(2-ethylhexyl)phthalate	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Fluoranthene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Fluorene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Hexachlorobenzene	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Hexachlorobutadiene	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Hexachlorocyclopentadiene	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Hexachloroethane	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Isophorone	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
2-Methylnaphthalene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
2-Methylphenol	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
3/4-Methylphenol	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Naphthalene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
3-Nitroaniline	ND		1.03		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
2-Nitroaniline	ND		1.03		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
4-Nitroaniline	ND		1.03		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Nitrobenzene	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
4-Nitrophenol	ND		1.03		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
2-Nitrophenol	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
N-Nitrosodiphenylamine	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
N-Nitrosodi-n-propylamine	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Pentachlorophenol	ND		1.03		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Phenanthrene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Phenol	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
Pyrene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
1,2,4-Trichlorobenzene	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
1-Methylnaphthalene	ND		0.0832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
2,4,6-Trichlorophenol	ND		0.413		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00
2,4,5-Trichlorophenol	ND		1.03		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:21	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*74*		*18 - 120*	*06/17/11 09:00*	*06/18/11 12:21*	*1.00*
2,4,6-Tribromophenol	*64*		*19 - 120*	*06/17/11 09:00*	*06/18/11 12:21*	*1.00*
Phenol-d5	*66*		*18 - 120*	*06/17/11 09:00*	*06/18/11 12:21*	*1.00*
2-Fluorobiphenyl	*56*		*14 - 120*	*06/17/11 09:00*	*06/18/11 12:21*	*1.00*
2-Fluorophenol	*64*		*17 - 120*	*06/17/11 09:00*	*06/18/11 12:21*	*1.00*
Nitrobenzene-d5	*57*		*17 - 120*	*06/17/11 09:00*	*06/18/11 12:21*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**18.6**		5.01		mg/kg dry	☼	06/16/11 09:40	06/18/11 05:56	1.00
TPH - Oil Range	**25.1**		5.01		mg/kg dry	☼	06/16/11 09:40	06/18/11 05:56	1.00

Client Sample ID: F-02(3') Lab Sample ID: NUF1960-01

Date Collected: 06/10/11 08:15 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 78.3**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*105*		*53 - 140*	*06/16/11 09:40*	*06/18/11 05:56*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0419		mg/kg dry	☼	06/14/11 07:15	06/15/11 22:36	1.00
PCB-1221	ND		0.0419		mg/kg dry	☼	06/14/11 07:15	06/15/11 22:36	1.00
PCB-1232	ND		0.0419		mg/kg dry	☼	06/14/11 07:15	06/15/11 22:36	1.00
PCB-1242	ND		0.0419		mg/kg dry	☼	06/14/11 07:15	06/15/11 22:36	1.00
PCB-1248	**0.0458**		0.0419		mg/kg dry	☼	06/14/11 07:15	06/15/11 22:36	1.00
PCB-1254	ND		0.0419		mg/kg dry	☼	06/14/11 07:15	06/15/11 22:36	1.00
PCB-1260	ND		0.0419		mg/kg dry	☼	06/14/11 07:15	06/15/11 22:36	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*92*		*19 - 147*	*06/14/11 07:15*	*06/15/11 22:36*	*1.00*
Decachlorobiphenyl	*112*		*20 - 150*	*06/14/11 07:15*	*06/15/11 22:36*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.41**		1.26		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:11	1.00
Barium	**198**		2.53		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:11	1.00
Cadmium	ND		1.26		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:11	1.00
Chromium	**19.2**		1.26		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:11	1.00
Lead	**391**	**M8**	1.26		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:11	1.00
Selenium	ND		2.53		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:11	1.00
Silver	ND		1.26		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:11	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.12		mg/kg dry	☼	06/15/11 08:55	06/15/11 13:38	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**78.3**		0.500		% dry		06/17/11 16:20	06/20/11 09:31	1.00

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1960

Client Sample ID: F-02(5-6')

Date Collected: 06/10/11 08:00
Date Received: 06/11/11 09:00

Lab Sample ID: NUF1960-02

Matrix: Soil
Percent Solids: 78.3

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.114**	**PX**	0.0563		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Benzene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Bromobenzene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Bromochloromethane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Bromodichloromethane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Bromoform	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Bromomethane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00563		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
2-Butanone	ND	PX	0.0563		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
sec-Butylbenzene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
n-Butylbenzene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
tert-Butylbenzene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Carbon disulfide	ND	PX	0.00563		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Carbon Tetrachloride	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Chlorobenzene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Chlorodibromomethane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Chloroethane	ND	PX	0.00563		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Chloroform	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Chloromethane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
2-Chlorotoluene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
4-Chlorotoluene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Dibromomethane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,4-Dichlorobenzene	ND	L PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,3-Dichlorobenzene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,2-Dichlorobenzene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Dichlorodifluoromethane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,1-Dichloroethane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,2-Dichloroethane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
cis-1,2-Dichloroethene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,1-Dichloroethene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
trans-1,2-Dichloroethene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,3-Dichloropropane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,2-Dichloropropane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
2,2-Dichloropropane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
cis-1,3-Dichloropropene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
trans-1,3-Dichloropropene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,1-Dichloropropene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Ethylbenzene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Hexachlorobutadiene	ND	PX	0.00563		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
2-Hexanone	ND	PX	0.0563		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Isopropylbenzene	ND	L PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
p-Isopropyltoluene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Methyl tert-Butyl Ether	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Methylene Chloride	ND	PX	0.0113		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
4-Methyl-2-pentanone	ND	PX	0.0563		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Naphthalene	ND	PX	0.00563		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
n-Propylbenzene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Styrene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00

Client Sample ID: F-02(5-6') Lab Sample ID: NUF1960-02

Date Collected: 06/10/11 08:00 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 78.3**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Tetrachloroethene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Toluene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,2,3-Trichlorobenzene	ND	PX L	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,2,4-Trichlorobenzene	ND	L PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,1,2-Trichloroethane	ND	PX	0.00563		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,1,1-Trichloroethane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Trichloroethene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Trichlorofluoromethane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,2,3-Trichloropropane	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,3,5-Trimethylbenzene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
1,2,4-Trimethylbenzene	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Vinyl chloride	ND	PX	0.00225		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00
Xylenes, total	ND	PX	0.00563		mg/kg dry	☼	06/16/11 08:23	06/17/11 19:20	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*98*		*67 - 138*	*06/16/11 08:23*	*06/17/11 19:20*	*1.00*
Dibromofluoromethane	*99*		*75 - 125*	*06/16/11 08:23*	*06/17/11 19:20*	*1.00*
Toluene-d8	*104*		*76 - 129*	*06/16/11 08:23*	*06/17/11 19:20*	*1.00*
4-Bromofluorobenzene	*100*		*67 - 147*	*06/16/11 08:23*	*06/17/11 19:20*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Acenaphthylene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Anthracene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Benzo (a) anthracene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Benzo (a) pyrene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Benzo (b) fluoranthene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Benzo (g,h,i) perylene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Benzo (k) fluoranthene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
4-Bromophenyl phenyl ether	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Butyl benzyl phthalate	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Carbazole	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
4-Chloro-3-methylphenol	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
4-Chloroaniline	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Bis(2-chloroethoxy)methane	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Bis(2-chloroethyl)ether	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Bis(2-chloroisopropyl)ether	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
2-Chloronaphthalene	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
2-Chlorophenol	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
4-Chlorophenyl phenyl ether	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Chrysene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Dibenz (a,h) anthracene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Dibenzofuran	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Di-n-butyl phthalate	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
1,4-Dichlorobenzene	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
1,2-Dichlorobenzene	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
1,3-Dichlorobenzene	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
3,3-Dichlorobenzidine	ND		0.832		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
2,4-Dichlorophenol	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00

Client Sample ID: F-02(5-6') Lab Sample ID: NUF1960-02

Date Collected: 06/10/11 08:00 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 78.3**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
2,4-Dimethylphenol	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Dimethyl phthalate	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
4,6-Dinitro-2-methylphenol	ND		1.04		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
2,4-Dinitrophenol	ND		1.04		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
2,6-Dinitrotoluene	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
2,4-Dinitrotoluene	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Di-n-octyl phthalate	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Bis(2-ethylhexyl)phthalate	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Fluoranthene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Fluorene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Hexachlorobenzene	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Hexachlorobutadiene	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Hexachlorocyclopentadiene	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Hexachloroethane	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Isophorone	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
2-Methylnaphthalene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
2-Methylphenol	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
3/4-Methylphenol	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Naphthalene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
3-Nitroaniline	ND		1.04		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
2-Nitroaniline	ND		1.04		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
4-Nitroaniline	ND		1.04		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Nitrobenzene	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
4-Nitrophenol	ND		1.04		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
2-Nitrophenol	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
N-Nitrosodiphenylamine	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
N-Nitrosodi-n-propylamine	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Pentachlorophenol	ND		1.04		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Phenanthrene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Phenol	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
Pyrene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
1,2,4-Trichlorobenzene	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
1-Methylnaphthalene	ND		0.0836		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
2,4,6-Trichlorophenol	ND		0.415		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00
2,4,5-Trichlorophenol	ND		1.04		mg/kg dry	☼	06/17/11 09:00	06/18/11 12:45	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*70*		*18 - 120*	*06/17/11 09:00*	*06/18/11 12:45*	*1.00*
2,4,6-Tribromophenol	*64*		*19 - 120*	*06/17/11 09:00*	*06/18/11 12:45*	*1.00*
Phenol-d5	*60*		*18 - 120*	*06/17/11 09:00*	*06/18/11 12:45*	*1.00*
2-Fluorobiphenyl	*52*		*14 - 120*	*06/17/11 09:00*	*06/18/11 12:45*	*1.00*
2-Fluorophenol	*58*		*17 - 120*	*06/17/11 09:00*	*06/18/11 12:45*	*1.00*
Nitrobenzene-d5	*52*		*17 - 120*	*06/17/11 09:00*	*06/18/11 12:45*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		4.98		mg/kg dry	☼	06/16/11 09:40	06/18/11 06:20	1.00
TPH - Oil Range	ND		4.98		mg/kg dry	☼	06/16/11 09:40	06/18/11 06:20	1.00

Client Sample ID: F-02(5-6') Lab Sample ID: NUF1960-02

Date Collected: 06/10/11 08:00 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 78.3**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*115*		*53 - 140*	*06/16/11 09:40*	*06/18/11 06:20*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0412		mg/kg dry	☼	06/14/11 07:15	06/14/11 23:25	1.00
PCB-1221	ND		0.0412		mg/kg dry	☼	06/14/11 07:15	06/14/11 23:25	1.00
PCB-1232	ND		0.0412		mg/kg dry	☼	06/14/11 07:15	06/14/11 23:25	1.00
PCB-1242	ND		0.0412		mg/kg dry	☼	06/14/11 07:15	06/14/11 23:25	1.00
PCB-1248	ND		0.0412		mg/kg dry	☼	06/14/11 07:15	06/14/11 23:25	1.00
PCB-1254	ND		0.0412		mg/kg dry	☼	06/14/11 07:15	06/14/11 23:25	1.00
PCB-1260	ND		0.0412		mg/kg dry	☼	06/14/11 07:15	06/14/11 23:25	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*80*		*19 - 147*	*06/14/11 07:15*	*06/14/11 23:25*	*1.00*
Decachlorobiphenyl	*112*		*20 - 150*	*06/14/11 07:15*	*06/14/11 23:25*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.91**		1.28		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:20	1.00
Barium	**165**		2.55		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:20	1.00
Cadmium	ND		1.28		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:20	1.00
Chromium	**24.5**		1.28		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:20	1.00
Lead	**9.74**		1.28		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:20	1.00
Selenium	ND		2.55		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:20	1.00
Silver	ND		1.28		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:20	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.12		mg/kg dry	☼	06/15/11 08:55	06/15/11 13:40	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**78.3**		0.500		% dry		06/17/11 16:20	06/20/11 09:31	1.00

Client Sample ID: F-04C(5-6') Lab Sample ID: NUF1960-03

Date Collected: 06/10/11 10:00 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 79.9**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0725**	**PX**	0.0584		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Benzene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Bromobenzene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Bromochloromethane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Bromodichloromethane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Bromoform	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Bromomethane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00584		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
2-Butanone	ND	PX	0.0584		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
sec-Butylbenzene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
n-Butylbenzene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
tert-Butylbenzene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Carbon disulfide	ND	PX	0.00584		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Carbon Tetrachloride	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Chlorobenzene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Chlorodibromomethane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Chloroethane	ND	PX	0.00584		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Chloroform	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Chloromethane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
2-Chlorotoluene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
4-Chlorotoluene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Dibromomethane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,4-Dichlorobenzene	ND	L PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,3-Dichlorobenzene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,2-Dichlorobenzene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Dichlorodifluoromethane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,1-Dichloroethane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,2-Dichloroethane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
cis-1,2-Dichloroethene	**0.0100**	**PX**	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,1-Dichloroethene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
trans-1,2-Dichloroethene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,3-Dichloropropane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,2-Dichloropropane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
2,2-Dichloropropane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
cis-1,3-Dichloropropene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
trans-1,3-Dichloropropene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,1-Dichloropropene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Ethylbenzene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Hexachlorobutadiene	ND	PX	0.00584		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
2-Hexanone	ND	PX	0.0584		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Isopropylbenzene	ND	L PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
p-Isopropyltoluene	**0.00800**	**PX**	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Methyl tert-Butyl Ether	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Methylene Chloride	**0.0132**	**PX**	0.0117		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
4-Methyl-2-pentanone	ND	PX	0.0584		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Naphthalene	ND	PX	0.00584		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
n-Propylbenzene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Styrene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00

Client Sample ID: F-04C(5-6') Lab Sample ID: NUF1960-03

Date Collected: 06/10/11 10:00 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 79.9**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Tetrachloroethene	**0.00537**	**PX**	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Toluene	**0.00233**	**PX**	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,2,3-Trichlorobenzene	ND	L PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,2,4-Trichlorobenzene	ND	L PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,1,2-Trichloroethane	ND	PX	0.00584		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,1,1-Trichloroethane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Trichloroethene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Trichlorofluoromethane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,2,3-Trichloropropane	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,3,5-Trimethylbenzene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
1,2,4-Trimethylbenzene	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Vinyl chloride	ND	PX	0.00233		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00
Xylenes, total	ND	PX	0.00584		mg/kg dry	☼	06/16/11 08:26	06/17/11 19:50	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*96*		*67 - 138*	*06/16/11 08:26*	*06/17/11 19:50*	*1.00*
Dibromofluoromethane	*99*		*75 - 125*	*06/16/11 08:26*	*06/17/11 19:50*	*1.00*
Toluene-d8	*105*		*76 - 129*	*06/16/11 08:26*	*06/17/11 19:50*	*1.00*
4-Bromofluorobenzene	*111*		*67 - 147*	*06/16/11 08:26*	*06/17/11 19:50*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Acenaphthylene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Anthracene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Benzo (a) anthracene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Benzo (a) pyrene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Benzo (b) fluoranthene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Benzo (g,h,i) perylene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Benzo (k) fluoranthene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
4-Bromophenyl phenyl ether	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Butyl benzyl phthalate	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Carbazole	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
4-Chloro-3-methylphenol	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
4-Chloroaniline	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Bis(2-chloroethoxy)methane	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Bis(2-chloroethyl)ether	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Bis(2-chloroisopropyl)ether	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
2-Chloronaphthalene	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
2-Chlorophenol	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
4-Chlorophenyl phenyl ether	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Chrysene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Dibenz (a,h) anthracene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Dibenzofuran	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Di-n-butyl phthalate	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
1,4-Dichlorobenzene	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
1,2-Dichlorobenzene	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
1,3-Dichlorobenzene	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
3,3-Dichlorobenzidine	ND		0.818		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
2,4-Dichlorophenol	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00

Client Sample ID: F-04C(5-6') Lab Sample ID: NUF1960-03

Date Collected: 06/10/11 10:00 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 79.9**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
2,4-Dimethylphenol	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Dimethyl phthalate	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
4,6-Dinitro-2-methylphenol	ND		1.02		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
2,4-Dinitrophenol	ND		1.02		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
2,6-Dinitrotoluene	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
2,4-Dinitrotoluene	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Di-n-octyl phthalate	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Bis(2-ethylhexyl)phthalate	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Fluoranthene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Fluorene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Hexachlorobenzene	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Hexachlorobutadiene	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Hexachlorocyclopentadiene	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Hexachloroethane	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Isophorone	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
2-Methylnaphthalene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
2-Methylphenol	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
3/4-Methylphenol	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Naphthalene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
3-Nitroaniline	ND		1.02		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
2-Nitroaniline	ND		1.02		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
4-Nitroaniline	ND		1.02		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Nitrobenzene	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
4-Nitrophenol	ND		1.02		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
2-Nitrophenol	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
N-Nitrosodiphenylamine	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
N-Nitrosodi-n-propylamine	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Pentachlorophenol	ND		1.02		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Phenanthrene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Phenol	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
Pyrene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
1,2,4-Trichlorobenzene	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
1-Methylnaphthalene	ND		0.0822		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
2,4,6-Trichlorophenol	ND		0.408		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00
2,4,5-Trichlorophenol	ND		1.02		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:09	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*73*		*18 - 120*	*06/17/11 09:00*	*06/18/11 13:09*	*1.00*
2,4,6-Tribromophenol	*64*		*19 - 120*	*06/17/11 09:00*	*06/18/11 13:09*	*1.00*
Phenol-d5	*64*		*18 - 120*	*06/17/11 09:00*	*06/18/11 13:09*	*1.00*
2-Fluorobiphenyl	*52*		*14 - 120*	*06/17/11 09:00*	*06/18/11 13:09*	*1.00*
2-Fluorophenol	*57*		*17 - 120*	*06/17/11 09:00*	*06/18/11 13:09*	*1.00*
Nitrobenzene-d5	*53*		*17 - 120*	*06/17/11 09:00*	*06/18/11 13:09*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**6.49**		4.92		mg/kg dry	☼	06/16/11 09:40	06/18/11 06:44	1.00
TPH - Oil Range	**16.1**		4.92		mg/kg dry	☼	06/16/11 09:40	06/18/11 06:44	1.00

Client Sample ID: F-04C(5-6') Lab Sample ID: NUF1960-03

Date Collected: 06/10/11 10:00 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 79.9**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*110*		*53 - 140*	*06/16/11 09:40*	*06/18/11 06:44*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0406		mg/kg dry	☼	06/14/11 07:15	06/14/11 16:33	1.00
PCB-1221	ND		0.0406		mg/kg dry	☼	06/14/11 07:15	06/14/11 16:33	1.00
PCB-1232	ND		0.0406		mg/kg dry	☼	06/14/11 07:15	06/14/11 16:33	1.00
PCB-1242	ND		0.0406		mg/kg dry	☼	06/14/11 07:15	06/14/11 16:33	1.00
PCB-1248	ND		0.0406		mg/kg dry	☼	06/14/11 07:15	06/14/11 16:33	1.00
PCB-1254	ND		0.0406		mg/kg dry	☼	06/14/11 07:15	06/14/11 16:33	1.00
PCB-1260	ND		0.0406		mg/kg dry	☼	06/14/11 07:15	06/14/11 16:33	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*74*		*19 - 147*	*06/14/11 07:15*	*06/14/11 16:33*	*1.00*
Decachlorobiphenyl	*112*		*20 - 150*	*06/14/11 07:15*	*06/14/11 16:33*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**15.0**		1.24		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:34	1.00
Barium	**202**		2.47		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:34	1.00
Cadmium	ND		1.24		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:34	1.00
Chromium	**20.8**		1.24		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:34	1.00
Lead	**641**		1.24		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:34	1.00
Selenium	ND		2.47		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:34	1.00
Silver	ND		1.24		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:34	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.12		mg/kg dry	☼	06/15/11 08:55	06/15/11 13:43	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**79.9**		0.500		% dry		06/17/11 11:56	06/17/11 14:23	1.00

Client Sample ID: F-04C(12-13') Lab Sample ID: NUF1960-04

Date Collected: 06/10/11 10:15 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 79.2**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	PX	0.0579		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Benzene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Bromobenzene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Bromochloromethane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Bromodichloromethane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Bromoform	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Bromomethane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00579		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
2-Butanone	ND	PX	0.0579		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
sec-Butylbenzene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
n-Butylbenzene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
tert-Butylbenzene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Carbon disulfide	ND	PX	0.00579		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Carbon Tetrachloride	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Chlorobenzene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Chlorodibromomethane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Chloroethane	ND	PX	0.00579		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Chloroform	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Chloromethane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
2-Chlorotoluene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
4-Chlorotoluene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Dibromomethane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,4-Dichlorobenzene	ND	L PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,3-Dichlorobenzene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,2-Dichlorobenzene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Dichlorodifluoromethane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,1-Dichloroethane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,2-Dichloroethane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
cis-1,2-Dichloroethene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,1-Dichloroethene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
trans-1,2-Dichloroethene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,3-Dichloropropane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,2-Dichloropropane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
2,2-Dichloropropane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
cis-1,3-Dichloropropene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
trans-1,3-Dichloropropene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,1-Dichloropropene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Ethylbenzene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Hexachlorobutadiene	ND	PX	0.00579		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
2-Hexanone	ND	PX	0.0579		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Isopropylbenzene	ND	L PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
p-Isopropyltoluene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Methyl tert-Butyl Ether	**0.00487**	**PX**	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Methylene Chloride	ND	PX	0.0116		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
4-Methyl-2-pentanone	ND	PX	0.0579		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Naphthalene	ND	PX	0.00579		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
n-Propylbenzene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Styrene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00

Client Sample ID: F-04C(12-13') Lab Sample ID: NUF1960-04

Date Collected: 06/10/11 10:15 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 79.2**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Tetrachloroethene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Toluene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,2,3-Trichlorobenzene	ND	L PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,2,4-Trichlorobenzene	ND	L PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,1,2-Trichloroethane	ND	PX	0.00579		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,1,1-Trichloroethane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Trichloroethene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Trichlorofluoromethane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,2,3-Trichloropropane	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,3,5-Trimethylbenzene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
1,2,4-Trimethylbenzene	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Vinyl chloride	ND	PX	0.00232		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00
Xylenes, total	ND	PX	0.00579		mg/kg dry	☼	06/16/11 08:29	06/17/11 20:20	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*94*		*67 - 138*	*06/16/11 08:29*	*06/17/11 20:20*	*1.00*
Dibromofluoromethane	*99*		*75 - 125*	*06/16/11 08:29*	*06/17/11 20:20*	*1.00*
Toluene-d8	*103*		*76 - 129*	*06/16/11 08:29*	*06/17/11 20:20*	*1.00*
4-Bromofluorobenzene	*104*		*67 - 147*	*06/16/11 08:29*	*06/17/11 20:20*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Acenaphthylene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Anthracene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Benzo (a) anthracene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Benzo (a) pyrene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Benzo (b) fluoranthene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Benzo (g,h,i) perylene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Benzo (k) fluoranthene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
4-Bromophenyl phenyl ether	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Butyl benzyl phthalate	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Carbazole	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
4-Chloro-3-methylphenol	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
4-Chloroaniline	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Bis(2-chloroethoxy)methane	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Bis(2-chloroethyl)ether	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Bis(2-chloroisopropyl)ether	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
2-Chloronaphthalene	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
2-Chlorophenol	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
4-Chlorophenyl phenyl ether	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Chrysene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Dibenz (a,h) anthracene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Dibenzofuran	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Di-n-butyl phthalate	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
1,4-Dichlorobenzene	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
1,2-Dichlorobenzene	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
1,3-Dichlorobenzene	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
3,3-Dichlorobenzidine	ND		0.829		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
2,4-Dichlorophenol	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00

Client Sample ID: F-04C(12-13') Lab Sample ID: NUF1960-04

Date Collected: 06/10/11 10:15 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 79.2**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
2,4-Dimethylphenol	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Dimethyl phthalate	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
4,6-Dinitro-2-methylphenol	ND		1.04		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
2,4-Dinitrophenol	ND		1.04		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
2,6-Dinitrotoluene	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
2,4-Dinitrotoluene	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Di-n-octyl phthalate	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Bis(2-ethylhexyl)phthalate	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Fluoranthene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Fluorene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Hexachlorobenzene	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Hexachlorobutadiene	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Hexachlorocyclopentadiene	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Hexachloroethane	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Isophorone	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
2-Methylnaphthalene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
2-Methylphenol	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
3/4-Methylphenol	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Naphthalene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
3-Nitroaniline	ND		1.04		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
2-Nitroaniline	ND		1.04		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
4-Nitroaniline	ND		1.04		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Nitrobenzene	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
4-Nitrophenol	ND		1.04		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
2-Nitrophenol	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
N-Nitrosodiphenylamine	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
N-Nitrosodi-n-propylamine	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Pentachlorophenol	ND		1.04		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Phenanthrene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Phenol	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
Pyrene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
1,2,4-Trichlorobenzene	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
1-Methylnaphthalene	ND		0.0833		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
2,4,6-Trichlorophenol	ND		0.414		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00
2,4,5-Trichlorophenol	ND		1.04		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:34	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*66*		*18 - 120*	*06/17/11 09:00*	*06/18/11 13:34*	*1.00*
2,4,6-Tribromophenol	*58*		*19 - 120*	*06/17/11 09:00*	*06/18/11 13:34*	*1.00*
Phenol-d5	*57*		*18 - 120*	*06/17/11 09:00*	*06/18/11 13:34*	*1.00*
2-Fluorobiphenyl	*49*		*14 - 120*	*06/17/11 09:00*	*06/18/11 13:34*	*1.00*
2-Fluorophenol	*52*		*17 - 120*	*06/17/11 09:00*	*06/18/11 13:34*	*1.00*
Nitrobenzene-d5	*51*		*17 - 120*	*06/17/11 09:00*	*06/18/11 13:34*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		4.96		mg/kg dry	☼	06/16/11 09:40	06/18/11 07:08	1.00
TPH - Oil Range	ND		4.96		mg/kg dry	☼	06/16/11 09:40	06/18/11 07:08	1.00

Client Sample ID: F-04C(12-13') Lab Sample ID: NUF1960-04

Date Collected: 06/10/11 10:15 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 79.2**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*105*		*53 - 140*	*06/16/11 09:40*	*06/18/11 07:08*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0409		mg/kg dry	☼	06/14/11 07:15	06/14/11 23:46	1.00
PCB-1221	ND		0.0409		mg/kg dry	☼	06/14/11 07:15	06/14/11 23:46	1.00
PCB-1232	ND		0.0409		mg/kg dry	☼	06/14/11 07:15	06/14/11 23:46	1.00
PCB-1242	ND		0.0409		mg/kg dry	☼	06/14/11 07:15	06/14/11 23:46	1.00
PCB-1248	ND		0.0409		mg/kg dry	☼	06/14/11 07:15	06/14/11 23:46	1.00
PCB-1254	ND		0.0409		mg/kg dry	☼	06/14/11 07:15	06/14/11 23:46	1.00
PCB-1260	ND		0.0409		mg/kg dry	☼	06/14/11 07:15	06/14/11 23:46	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*84*		*19 - 147*	*06/14/11 07:15*	*06/14/11 23:46*	*1.00*
Decachlorobiphenyl	*906*	*ZX*	*20 - 150*	*06/14/11 07:15*	*06/14/11 23:46*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.70**		1.21		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:37	1.00
Barium	**161**		2.43		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:37	1.00
Cadmium	ND		1.21		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:37	1.00
Chromium	**23.6**		1.21		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:37	1.00
Lead	**11.4**		1.21		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:37	1.00
Selenium	ND		2.43		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:37	1.00
Silver	ND		1.21		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:37	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.12		mg/kg dry	☼	06/15/11 08:55	06/15/11 13:45	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**79.2**		0.500		% dry		06/17/11 11:56	06/17/11 14:23	1.00

Client Sample ID: F-03B(0-1) Lab Sample ID: NUF1960-05

Date Collected: 06/10/11 10:35 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 65.2**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.347**	**PX**	0.0707		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
Benzene	**0.0148**	**PX**	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
Bromochloromethane	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
Bromodichloromethane	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
Bromomethane	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
2-Butanone	ND	PX	0.0707		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
Carbon disulfide	**0.0766**	**PX**	0.00707		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
Carbon Tetrachloride	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
Chloroethane	**0.0170**	**PX**	0.00707		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
Chloroform	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
Chloromethane	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
Dibromomethane	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
Dichlorodifluoromethane	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
1,1-Dichloroethane	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
1,2-Dichloroethane	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
cis-1,2-Dichloroethene	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
1,1-Dichloroethene	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
trans-1,2-Dichloroethene	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
1,2-Dichloropropane	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
2,2-Dichloropropane	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
1,1-Dichloropropene	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
Methyl tert-Butyl Ether	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
Methylene Chloride	**0.0398**	**PX**	0.0141		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
1,1,1-Trichloroethane	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
Trichloroethene	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
Trichlorofluoromethane	**0.0452**	**PX**	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00
Vinyl chloride	ND	PX	0.00283		mg/kg dry	☼	06/16/11 08:32	06/19/11 12:57	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*116*		*67 - 138*	*06/16/11 08:32*	*06/19/11 12:57*	*1.00*
Dibromofluoromethane	*110*		*75 - 125*	*06/16/11 08:32*	*06/19/11 12:57*	*1.00*
Toluene-d8	*121*		*76 - 129*	*06/16/11 08:32*	*06/19/11 12:57*	*1.00*
4-Bromofluorobenzene	*170*	*ZX*	*67 - 147*	*06/16/11 08:32*	*06/19/11 12:57*	*1.00*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND	PX	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
Bromoform	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
1,2-Dibromo-3-chloropropane	ND	PX RL1	0.352		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
sec-Butylbenzene	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
n-Butylbenzene	**0.310**	**PX**	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
tert-Butylbenzene	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
Chlorobenzene	**0.396**	**PX**	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
Chlorodibromomethane	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
2-Chlorotoluene	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
4-Chlorotoluene	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
1,2-Dibromoethane (EDB)	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
1,4-Dichlorobenzene	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
1,3-Dichlorobenzene	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
1,2-Dichlorobenzene	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
1,3-Dichloropropane	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0

Client Sample ID: F-03B(0-1) Lab Sample ID: NUF1960-05

Date Collected: 06/10/11 10:35 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 65.2**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
trans-1,3-Dichloropropene	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
Ethylbenzene	**1.86**	**PX**	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
Hexachlorobutadiene	ND	PX RL1	0.352		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
2-Hexanone	ND	PX RL1	3.52		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
Isopropylbenzene	**0.184**	**PX L1**	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
p-Isopropyltoluene	**2.30**	**PX**	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
4-Methyl-2-pentanone	ND	PX RL1	3.52		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
Naphthalene	**1.20**	**PX**	0.352		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
n-Propylbenzene	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
Styrene	**1.30**	**PX**	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
1,1,1,2-Tetrachloroethane	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
1,1,2,2-Tetrachloroethane	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
Tetrachloroethene	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
Toluene	**2.21**	**PX**	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
1,2,3-Trichlorobenzene	ND	PX L RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
1,2,4-Trichlorobenzene	ND	PX L RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
1,1,2-Trichloroethane	ND	PX RL1	0.352		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
1,2,3-Trichloropropane	ND	PX RL1	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
1,3,5-Trimethylbenzene	**0.211**	**PX**	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
1,2,4-Trimethylbenzene	**0.577**	**PX**	0.141		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0
Xylenes, total	**1.66**	**PX**	0.352		mg/kg dry	☼	06/16/11 08:32	06/19/11 13:27	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*93*		*67 - 138*	*06/16/11 08:32*	*06/19/11 13:27*	*50.0*
Dibromofluoromethane	*96*		*75 - 125*	*06/16/11 08:32*	*06/19/11 13:27*	*50.0*
Toluene-d8	*102*		*76 - 129*	*06/16/11 08:32*	*06/19/11 13:27*	*50.0*
4-Bromofluorobenzene	*98*		*67 - 147*	*06/16/11 08:32*	*06/19/11 13:27*	*50.0*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.118**		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Acenaphthylene	ND		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Anthracene	**0.335**		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Benzo (a) anthracene	**0.479**		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Benzo (a) pyrene	**0.451**		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Benzo (b) fluoranthene	ND		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Benzo (g,h,i) perylene	**0.412**		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Benzo (k) fluoranthene	**0.783**		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
4-Bromophenyl phenyl ether	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Butyl benzyl phthalate	**0.818**		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Carbazole	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
4-Chloro-3-methylphenol	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
4-Chloroaniline	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Bis(2-chloroethoxy)methane	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Bis(2-chloroethyl)ether	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Bis(2-chloroisopropyl)ether	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
2-Chloronaphthalene	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
2-Chlorophenol	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
4-Chlorophenyl phenyl ether	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Chrysene	**0.525**		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00

Client Sample ID: F-03B(0-1) Lab Sample ID: NUF1960-05

Date Collected: 06/10/11 10:35 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 65.2**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz (a,h) anthracene	**0.152**		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Dibenzofuran	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Di-n-butyl phthalate	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
1,4-Dichlorobenzene	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
1,2-Dichlorobenzene	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
1,3-Dichlorobenzene	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
3,3-Dichlorobenzidine	ND		0.997		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
2,4-Dichlorophenol	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Diethyl phthalate	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
2,4-Dimethylphenol	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Dimethyl phthalate	**2.87**		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
4,6-Dinitro-2-methylphenol	ND		1.25		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
2,4-Dinitrophenol	ND		1.25		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
2,6-Dinitrotoluene	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
2,4-Dinitrotoluene	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Di-n-octyl phthalate	**1.61**		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Bis(2-ethylhexyl)phthalate	**4.90**		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Fluoranthene	**1.16**		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Fluorene	**0.175**		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Hexachlorobenzene	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Hexachlorobutadiene	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Hexachlorocyclopentadiene	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Hexachloroethane	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Indeno (1,2,3-cd) pyrene	**0.296**		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Isophorone	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
2-Methylnaphthalene	ND		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
2-Methylphenol	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
3/4-Methylphenol	**1.46**		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Naphthalene	**0.139**		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
3-Nitroaniline	ND		1.25		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
2-Nitroaniline	ND		1.25		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
4-Nitroaniline	ND		1.25		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Nitrobenzene	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
4-Nitrophenol	ND		1.25		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
2-Nitrophenol	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
N-Nitrosodiphenylamine	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
N-Nitrosodi-n-propylamine	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Pentachlorophenol	ND		1.25		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Phenanthrene	**0.960**		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Phenol	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
Pyrene	**1.26**		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
1,2,4-Trichlorobenzene	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
1-Methylnaphthalene	ND		0.100		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
2,4,6-Trichlorophenol	ND		0.498		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00
2,4,5-Trichlorophenol	ND		1.25		mg/kg dry	☼	06/17/11 09:00	06/18/11 13:58	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*55*		*18 - 120*	*06/17/11 09:00*	*06/18/11 13:58*	*1.00*
2,4,6-Tribromophenol	*46*		*19 - 120*	*06/17/11 09:00*	*06/18/11 13:58*	*1.00*
Phenol-d5	*39*		*18 - 120*	*06/17/11 09:00*	*06/18/11 13:58*	*1.00*
2-Fluorobiphenyl	*39*		*14 - 120*	*06/17/11 09:00*	*06/18/11 13:58*	*1.00*

Client Sample ID: F-03B(0-1) Lab Sample ID: NUF1960-05

Date Collected: 06/10/11 10:35 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 65.2**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	36		17 - 120	06/17/11 09:00	06/18/11 13:58	1.00
Nitrobenzene-d5	40		17 - 120	06/17/11 09:00	06/18/11 13:58	1.00

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**2210**		123		mg/kg dry	☼	06/16/11 09:40	06/18/11 19:58	20.0
TPH - Oil Range	**4260**		123		mg/kg dry	☼	06/16/11 09:40	06/18/11 19:58	20.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl		Z3	53 - 140	06/16/11 09:40	06/18/11 19:58	20.0

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.249		mg/kg dry	☼	06/14/11 07:15	06/15/11 13:57	5.00
PCB-1221	ND		0.249		mg/kg dry	☼	06/14/11 07:15	06/15/11 13:57	5.00
PCB-1232	ND		0.249		mg/kg dry	☼	06/14/11 07:15	06/15/11 13:57	5.00
PCB-1242	**2.21**		0.249		mg/kg dry	☼	06/14/11 07:15	06/15/11 13:57	5.00
PCB-1248	ND		0.249		mg/kg dry	☼	06/14/11 07:15	06/15/11 13:57	5.00
PCB-1254	**0.911**		0.249		mg/kg dry	☼	06/14/11 07:15	06/15/11 13:57	5.00
PCB-1260	ND		0.249		mg/kg dry	☼	06/14/11 07:15	06/15/11 13:57	5.00

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-meta-xylene	100		19 - 147	06/14/11 07:15	06/15/11 13:57	5.00
Decachlorobiphenyl	100		20 - 150	06/14/11 07:15	06/15/11 13:57	5.00

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**14.1**		1.52		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:41	1.00
Barium	**6740**		30.4		mg/kg dry	☼	06/15/11 07:00	06/17/11 09:32	10.0
Cadmium	**137**		1.52		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:41	1.00
Chromium	**401**		1.52		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:41	1.00
Lead	**2920**		1.52		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:41	1.00
Selenium	ND		3.04		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:41	1.00
Silver	**2.62**		1.52		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:41	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.91**		0.15		mg/kg dry	☼	06/15/11 08:55	06/15/11 13:48	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**65.2**		0.500		% dry		06/17/11 11:56	06/17/11 14:23	1.00

Client Sample ID: F-03C(5-6) Lab Sample ID: NUF1960-06

Date Collected: 06/10/11 11:05 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 82.7**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.458**	**PX**	0.0529		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Benzene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Bromobenzene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Bromochloromethane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Bromodichloromethane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Bromoform	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Bromomethane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,2-Dibromo-3-chloropropane	ND	PX	0.00529		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
2-Butanone	ND	PX	0.0529		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
sec-Butylbenzene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
n-Butylbenzene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
tert-Butylbenzene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Carbon disulfide	ND	PX	0.00529		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Carbon Tetrachloride	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Chlorobenzene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Chlorodibromomethane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Chloroethane	ND	PX	0.00529		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Chloroform	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Chloromethane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
2-Chlorotoluene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
4-Chlorotoluene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,2-Dibromoethane (EDB)	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Dibromomethane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,4-Dichlorobenzene	ND	L PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,3-Dichlorobenzene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,2-Dichlorobenzene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Dichlorodifluoromethane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,1-Dichloroethane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,2-Dichloroethane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
cis-1,2-Dichloroethene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,1-Dichloroethene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
trans-1,2-Dichloroethene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,3-Dichloropropane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,2-Dichloropropane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
2,2-Dichloropropane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
cis-1,3-Dichloropropene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
trans-1,3-Dichloropropene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,1-Dichloropropene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Ethylbenzene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Hexachlorobutadiene	ND	PX	0.00529		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
2-Hexanone	ND	PX	0.0529		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Isopropylbenzene	ND	L PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
p-Isopropyltoluene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Methyl tert-Butyl Ether	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Methylene Chloride	ND	PX	0.0106		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
4-Methyl-2-pentanone	ND	PX	0.0529		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Naphthalene	ND	PX	0.00529		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
n-Propylbenzene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Styrene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,1,1,2-Tetrachloroethane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00

Client Sample ID: F-03C(5-6) Lab Sample ID: NUF1960-06

Date Collected: 06/10/11 11:05 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 82.7**

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Tetrachloroethene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Toluene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,2,3-Trichlorobenzene	ND	L PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,2,4-Trichlorobenzene	ND	L PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,1,2-Trichloroethane	ND	PX	0.00529		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,1,1-Trichloroethane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Trichloroethene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Trichlorofluoromethane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,2,3-Trichloropropane	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,3,5-Trimethylbenzene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
1,2,4-Trimethylbenzene	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Vinyl chloride	ND	PX	0.00212		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00
Xylenes, total	ND	PX	0.00529		mg/kg dry	☼	06/16/11 08:33	06/17/11 18:21	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*100*		*67 - 138*	*06/16/11 08:33*	*06/17/11 18:21*	*1.00*
Dibromofluoromethane	*99*		*75 - 125*	*06/16/11 08:33*	*06/17/11 18:21*	*1.00*
Toluene-d8	*102*		*76 - 129*	*06/16/11 08:33*	*06/17/11 18:21*	*1.00*
4-Bromofluorobenzene	*100*		*67 - 147*	*06/16/11 08:33*	*06/17/11 18:21*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Acenaphthylene	ND		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Anthracene	**0.207**		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Benzo (a) anthracene	**0.0937**		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Benzo (a) pyrene	ND		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Benzo (b) fluoranthene	**0.119**		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Benzo (g,h,i) perylene	ND		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Benzo (k) fluoranthene	ND		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
4-Bromophenyl phenyl ether	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Butyl benzyl phthalate	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Carbazole	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
4-Chloro-3-methylphenol	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
4-Chloroaniline	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Bis(2-chloroethoxy)methane	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Bis(2-chloroethyl)ether	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Bis(2-chloroisopropyl)ether	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
2-Chloronaphthalene	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
2-Chlorophenol	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
4-Chlorophenyl phenyl ether	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Chrysene	**0.114**		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Dibenz (a,h) anthracene	ND		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Dibenzofuran	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Di-n-butyl phthalate	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
1,4-Dichlorobenzene	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
1,2-Dichlorobenzene	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
1,3-Dichlorobenzene	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
3,3-Dichlorobenzidine	ND		0.804		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
2,4-Dichlorophenol	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00

Client Sample ID: F-03C(5-6) Lab Sample ID: NUF1960-06

Date Collected: 06/10/11 11:05 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 82.7**

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
2,4-Dimethylphenol	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Dimethyl phthalate	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
4,6-Dinitro-2-methylphenol	ND		1.00		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
2,4-Dinitrophenol	ND		1.00		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
2,6-Dinitrotoluene	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
2,4-Dinitrotoluene	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Di-n-octyl phthalate	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Bis(2-ethylhexyl)phthalate	**0.472**		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Fluoranthene	**0.229**		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Fluorene	ND		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Hexachlorobenzene	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Hexachlorobutadiene	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Hexachlorocyclopentadiene	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Hexachloroethane	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Isophorone	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
2-Methylnaphthalene	**0.0993**		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
2-Methylphenol	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
3/4-Methylphenol	**1.71**		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Naphthalene	**0.0820**		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
3-Nitroaniline	ND		1.00		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
2-Nitroaniline	ND		1.00		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
4-Nitroaniline	ND		1.00		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Nitrobenzene	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
4-Nitrophenol	ND		1.00		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
2-Nitrophenol	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
N-Nitrosodiphenylamine	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
N-Nitrosodi-n-propylamine	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Pentachlorophenol	ND		1.00		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Phenanthrene	**0.296**		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Phenol	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
Pyrene	**0.213**		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
1,2,4-Trichlorobenzene	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
1-Methylnaphthalene	ND		0.0808		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
2,4,6-Trichlorophenol	ND		0.402		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00
2,4,5-Trichlorophenol	ND		1.00		mg/kg dry	☼	06/17/11 09:00	06/18/11 14:22	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*64*		*18 - 120*	*06/17/11 09:00*	*06/18/11 14:22*	*1.00*
2,4,6-Tribromophenol	*61*		*19 - 120*	*06/17/11 09:00*	*06/18/11 14:22*	*1.00*
Phenol-d5	*49*		*18 - 120*	*06/17/11 09:00*	*06/18/11 14:22*	*1.00*
2-Fluorobiphenyl	*46*		*14 - 120*	*06/17/11 09:00*	*06/18/11 14:22*	*1.00*
2-Fluorophenol	*42*		*17 - 120*	*06/17/11 09:00*	*06/18/11 14:22*	*1.00*
Nitrobenzene-d5	*43*		*17 - 120*	*06/17/11 09:00*	*06/18/11 14:22*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	**106**		4.81		mg/kg dry	☼	06/16/11 09:40	06/18/11 10:44	1.00

Client Sample ID: F-03C(5-6) Lab Sample ID: NUF1960-06

Date Collected: 06/10/11 11:05 **Matrix: Soil**
Date Received: 06/11/11 09:00 **Percent Solids: 82.7**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*53 - 140*	*06/16/11 09:40*	*06/18/11 10:44*	*1.00*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH - Oil Range	**223**		9.62		mg/kg dry	☼	06/16/11 09:40	06/18/11 19:34	2.00

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0392		mg/kg dry	☼	06/14/11 07:15	06/15/11 21:31	1.00
PCB-1221	ND		0.0392		mg/kg dry	☼	06/14/11 07:15	06/15/11 21:31	1.00
PCB-1232	ND		0.0392		mg/kg dry	☼	06/14/11 07:15	06/15/11 21:31	1.00
PCB-1242	ND		0.0392		mg/kg dry	☼	06/14/11 07:15	06/15/11 21:31	1.00
PCB-1248	ND		0.0392		mg/kg dry	☼	06/14/11 07:15	06/15/11 21:31	1.00
PCB-1254	ND		0.0392		mg/kg dry	☼	06/14/11 07:15	06/15/11 21:31	1.00
PCB-1260	ND		0.0392		mg/kg dry	☼	06/14/11 07:15	06/15/11 21:31	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*90*		*19 - 147*	*06/14/11 07:15*	*06/15/11 21:31*	*1.00*
Decachlorobiphenyl	*102*		*20 - 150*	*06/14/11 07:15*	*06/15/11 21:31*	*1.00*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.80**		1.20		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:44	1.00
Barium	**204**		2.40		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:44	1.00
Cadmium	ND		1.20		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:44	1.00
Chromium	**22.8**		1.20		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:44	1.00
Lead	**12.3**		1.20		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:44	1.00
Selenium	ND		2.40		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:44	1.00
Silver	ND		1.20		mg/kg dry	☼	06/15/11 07:00	06/16/11 15:44	1.00

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.12		mg/kg dry	☼	06/15/11 08:55	06/15/11 13:50	1.0

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**82.7**		0.500		% dry		06/17/11 11:56	06/17/11 14:23	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11F4528-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010814 **Prep Batch: 11F4528_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Benzene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Bromobenzene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Bromochloromethane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Bromodichloromethane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Bromoform	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Bromomethane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,2-Dibromo-3-chloropropane	ND		0.00500		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
2-Butanone	ND		0.0500		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
sec-Butylbenzene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
n-Butylbenzene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
tert-Butylbenzene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Carbon disulfide	ND		0.00500		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Carbon Tetrachloride	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Chlorobenzene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Chlorodibromomethane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Chloroethane	ND		0.00500		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Chloroform	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Chloromethane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
2-Chlorotoluene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
4-Chlorotoluene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,2-Dibromoethane (EDB)	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Dibromomethane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,4-Dichlorobenzene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,3-Dichlorobenzene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,2-Dichlorobenzene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Dichlorodifluoromethane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,1-Dichloroethane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,2-Dichloroethane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
cis-1,2-Dichloroethene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,1-Dichloroethene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
trans-1,2-Dichloroethene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,3-Dichloropropane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,2-Dichloropropane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
2,2-Dichloropropane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
cis-1,3-Dichloropropene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
trans-1,3-Dichloropropene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,1-Dichloropropene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Ethylbenzene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Hexachlorobutadiene	ND		0.00500		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
2-Hexanone	ND		0.0500		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Isopropylbenzene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
p-Isopropyltoluene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Methyl tert-Butyl Ether	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Methylene Chloride	ND		0.0100		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
4-Methyl-2-pentanone	ND		0.0500		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Naphthalene	ND		0.00500		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
n-Propylbenzene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Styrene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4528-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010814 **Prep Batch: 11F4528_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Tetrachloroethene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Toluene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,2,3-Trichlorobenzene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,2,4-Trichlorobenzene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,1,2-Trichloroethane	ND		0.00500		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,1,1-Trichloroethane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Trichloroethene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Trichlorofluoromethane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,2,3-Trichloropropane	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,3,5-Trimethylbenzene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
1,2,4-Trimethylbenzene	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Vinyl chloride	ND		0.00200		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00
Xylenes, total	ND		0.00500		mg/kg wet		06/17/11 00:19	06/17/11 12:50	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*102*		*67 - 138*	*06/17/11 00:19*	*06/17/11 12:50*	*1.00*
Dibromofluoromethane	*103*		*75 - 125*	*06/17/11 00:19*	*06/17/11 12:50*	*1.00*
Toluene-d8	*100*		*76 - 129*	*06/17/11 00:19*	*06/17/11 12:50*	*1.00*
4-Bromofluorobenzene	*101*		*67 - 147*	*06/17/11 00:19*	*06/17/11 12:50*	*1.00*

Lab Sample ID: 11F4528-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010814 **Prep Batch: 11F4528_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.50		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Benzene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Bromobenzene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Bromochloromethane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Bromodichloromethane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Bromoform	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Bromomethane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,2-Dibromo-3-chloropropane	ND		0.250		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
2-Butanone	ND		2.50		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
sec-Butylbenzene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
n-Butylbenzene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
tert-Butylbenzene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Carbon disulfide	ND		0.250		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Carbon Tetrachloride	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Chlorobenzene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Chlorodibromomethane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Chloroethane	ND		0.250		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Chloroform	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Chloromethane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
2-Chlorotoluene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
4-Chlorotoluene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,2-Dibromoethane (EDB)	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4528-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010814 **Prep Batch: 11F4528_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,4-Dichlorobenzene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,3-Dichlorobenzene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,2-Dichlorobenzene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Dichlorodifluoromethane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,1-Dichloroethane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,2-Dichloroethane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
cis-1,2-Dichloroethene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,1-Dichloroethene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
trans-1,2-Dichloroethene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,3-Dichloropropane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,2-Dichloropropane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
2,2-Dichloropropane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
cis-1,3-Dichloropropene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
trans-1,3-Dichloropropene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,1-Dichloropropene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Ethylbenzene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Hexachlorobutadiene	ND		0.250		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
2-Hexanone	ND		2.50		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Isopropylbenzene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
p-Isopropyltoluene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Methyl tert-Butyl Ether	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Methylene Chloride	ND		0.500		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
4-Methyl-2-pentanone	ND		2.50		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Naphthalene	ND		0.250		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
n-Propylbenzene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Styrene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,1,1,2-Tetrachloroethane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,1,2,2-Tetrachloroethane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Tetrachloroethene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Toluene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,2,3-Trichlorobenzene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,2,4-Trichlorobenzene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,1,2-Trichloroethane	ND		0.250		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,1,1-Trichloroethane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Trichloroethene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Trichlorofluoromethane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,2,3-Trichloropropane	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,3,5-Trimethylbenzene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
1,2,4-Trimethylbenzene	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Vinyl chloride	ND		0.100		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0
Xylenes, total	ND		0.250		mg/kg wet		06/17/11 00:19	06/17/11 13:20	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*90*		*67 - 138*	*06/17/11 00:19*	*06/17/11 13:20*	*50.0*
Dibromofluoromethane	*99*		*75 - 125*	*06/17/11 00:19*	*06/17/11 13:20*	*50.0*
Toluene-d8	*104*		*76 - 129*	*06/17/11 00:19*	*06/17/11 13:20*	*50.0*
4-Bromofluorobenzene	*102*		*67 - 147*	*06/17/11 00:19*	*06/17/11 13:20*	*50.0*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4528-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010814 **Prep Batch: 11F4528_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	218		ug/kg		87	60 - 150
Benzene	50.0	50.2		ug/kg		100	78 - 126
Bromobenzene	50.0	51.9		ug/kg		104	79 - 126
Bromochloromethane	50.0	52.5		ug/kg		105	78 - 126
Bromodichloromethane	50.0	54.4		ug/kg		109	75 - 129
Bromoform	50.0	48.2		ug/kg		96	74 - 133
Bromomethane	50.0	60.3		ug/kg		121	50 - 150
1,2-Dibromo-3-chloropropane	50.0	49.2		ug/kg		98	62 - 150
2-Butanone	250	239		ug/kg		96	68 - 149
sec-Butylbenzene	50.0	57.5		ug/kg		115	76 - 135
n-Butylbenzene	50.0	66.0		ug/kg		132	73 - 143
tert-Butylbenzene	50.0	52.0		ug/kg		104	80 - 129
Carbon disulfide	50.0	51.5		ug/kg		103	80 - 132
Carbon Tetrachloride	50.0	54.5		ug/kg		109	70 - 138
Chlorobenzene	50.0	55.3		ug/kg		111	80 - 123
Chlorodibromomethane	50.0	50.4		ug/kg		101	80 - 127
Chloroethane	50.0	48.7		ug/kg		97	55 - 150
Chloroform	50.0	49.1		ug/kg		98	70 - 127
Chloromethane	50.0	42.0		ug/kg		84	36 - 137
2-Chlorotoluene	50.0	54.6		ug/kg		109	80 - 130
4-Chlorotoluene	50.0	59.0		ug/kg		118	77 - 132
1,2-Dibromoethane (EDB)	50.0	54.3		ug/kg		109	80 - 131
Dibromomethane	50.0	50.3		ug/kg		101	78 - 128
1,4-Dichlorobenzene	50.0	65.0	L	ug/kg		130	80 - 129
1,3-Dichlorobenzene	50.0	64.3		ug/kg		129	80 - 131
1,2-Dichlorobenzene	50.0	60.2		ug/kg		120	80 - 127
Dichlorodifluoromethane	50.0	35.6		ug/kg		71	30 - 150
1,1-Dichloroethane	50.0	51.1		ug/kg		102	71 - 126
1,2-Dichloroethane	50.0	50.5		ug/kg		101	70 - 139
cis-1,2-Dichloroethene	50.0	51.2		ug/kg		102	75 - 126
1,1-Dichloroethene	50.0	52.2		ug/kg		104	70 - 125
trans-1,2-Dichloroethene	50.0	52.0		ug/kg		104	73 - 128
1,3-Dichloropropane	50.0	53.0		ug/kg		106	79 - 128
1,2-Dichloropropane	50.0	47.1		ug/kg		94	75 - 120
2,2-Dichloropropane	50.0	50.9		ug/kg		102	60 - 139
cis-1,3-Dichloropropene	50.0	60.1		ug/kg		120	74 - 136
trans-1,3-Dichloropropene	50.0	57.5		ug/kg		115	73 - 128
1,1-Dichloropropene	50.0	53.1		ug/kg		106	78 - 125
Ethylbenzene	50.0	54.8		ug/kg		110	79 - 130
Hexachlorobutadiene	50.0	66.6		ug/kg		133	75 - 150
2-Hexanone	250	258		ug/kg		103	65 - 150
Isopropylbenzene	50.0	60.6		ug/kg		121	65 - 121
p-Isopropyltoluene	50.0	59.6		ug/kg		119	76 - 133
Methyl tert-Butyl Ether	50.0	52.2		ug/kg		104	70 - 128
Methylene Chloride	50.0	54.3		ug/kg		109	69 - 140
4-Methyl-2-pentanone	250	268		ug/kg		107	67 - 147
Naphthalene	50.0	63.1		ug/kg		126	72 - 150
n-Propylbenzene	50.0	56.6		ug/kg		113	76 - 133
Styrene	50.0	56.6		ug/kg		113	80 - 140

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4528-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010814 **Prep Batch: 11F4528_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	53.5		ug/kg		107	80 - 132
1,1,2,2-Tetrachloroethane	50.0	51.6		ug/kg		103	75 - 135
Tetrachloroethene	50.0	60.1		ug/kg		120	76 - 130
Toluene	50.0	54.1		ug/kg		108	76 - 126
1,2,3-Trichlorobenzene	50.0	78.7	L	ug/kg		157	75 - 150
1,2,4-Trichlorobenzene	50.0	89.2	L	ug/kg		178	64 - 150
1,1,2-Trichloroethane	50.0	53.4		ug/kg		107	73 - 133
1,1,1-Trichloroethane	50.0	51.5		ug/kg		103	70 - 132
Trichloroethene	50.0	53.8		ug/kg		108	79 - 129
Trichlorofluoromethane	50.0	47.2		ug/kg		94	52 - 148
1,2,3-Trichloropropane	50.0	50.4		ug/kg		101	70 - 125
1,3,5-Trimethylbenzene	50.0	58.5		ug/kg		117	80 - 134
1,2,4-Trimethylbenzene	50.0	59.8		ug/kg		120	80 - 132
Vinyl chloride	50.0	45.1		ug/kg		90	53 - 142
Xylenes, total	150	168		ug/kg		112	80 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*109*		*67 - 138*
Dibromofluoromethane	*101*		*75 - 125*
Toluene-d8	*103*		*76 - 129*
4-Bromofluorobenzene	*98*		*67 - 147*

Lab Sample ID: 11F4528-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010814 **Prep Batch: 11F4528_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	250	203		ug/kg		81	60 - 150	7	50
Benzene	50.0	50.0		ug/kg		100	78 - 126	0.4	50
Bromobenzene	50.0	52.9		ug/kg		106	79 - 126	2	50
Bromochloromethane	50.0	51.4		ug/kg		103	78 - 126	2	50
Bromodichloromethane	50.0	54.4		ug/kg		109	75 - 129	0.07	50
Bromoform	50.0	47.7		ug/kg		95	74 - 133	0.9	43
Bromomethane	50.0	57.3		ug/kg		115	50 - 150	5	46
1,2-Dibromo-3-chloropropane	50.0	47.6		ug/kg		95	62 - 150	3	45
2-Butanone	250	231		ug/kg		92	68 - 149	4	50
sec-Butylbenzene	50.0	56.3		ug/kg		113	76 - 135	2	50
n-Butylbenzene	50.0	65.8		ug/kg		132	73 - 143	0.5	50
tert-Butylbenzene	50.0	50.7		ug/kg		101	80 - 129	2	50
Carbon disulfide	50.0	50.8		ug/kg		102	80 - 132	1	48
Carbon Tetrachloride	50.0	54.5		ug/kg		109	70 - 138	0.04	44
Chlorobenzene	50.0	54.4		ug/kg		109	80 - 123	2	50
Chlorodibromomethane	50.0	50.0		ug/kg		100	80 - 127	0.8	48
Chloroethane	50.0	47.4		ug/kg		95	55 - 150	3	50
Chloroform	50.0	49.0		ug/kg		98	70 - 127	0.2	50
Chloromethane	50.0	39.4		ug/kg		79	36 - 137	7	44
2-Chlorotoluene	50.0	54.0		ug/kg		108	80 - 130	1	50
4-Chlorotoluene	50.0	57.6		ug/kg		115	77 - 132	2	50
1,2-Dibromoethane (EDB)	50.0	53.9		ug/kg		108	80 - 131	0.8	45

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4528-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010814 **Prep Batch: 11F4528_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dibromomethane	50.0	49.8		ug/kg		100	78 - 128	1	50
1,4-Dichlorobenzene	50.0	64.1		ug/kg		128	80 - 129	1	50
1,3-Dichlorobenzene	50.0	63.9		ug/kg		128	80 - 131	0.7	50
1,2-Dichlorobenzene	50.0	60.3		ug/kg		121	80 - 127	0.2	50
Dichlorodifluoromethane	50.0	34.5		ug/kg		69	30 - 150	3	50
1,1-Dichloroethane	50.0	50.4		ug/kg		101	71 - 126	1	50
1,2-Dichloroethane	50.0	50.2		ug/kg		100	70 - 139	0.5	50
cis-1,2-Dichloroethene	50.0	50.4		ug/kg		101	75 - 126	2	50
1,1-Dichloroethene	50.0	51.3		ug/kg		103	70 - 125	2	50
trans-1,2-Dichloroethene	50.0	51.6		ug/kg		103	73 - 128	0.7	40
1,3-Dichloropropane	50.0	52.6		ug/kg		105	79 - 128	0.6	42
1,2-Dichloropropane	50.0	47.4		ug/kg		95	75 - 120	0.7	50
2,2-Dichloropropane	50.0	50.6		ug/kg		101	60 - 139	0.6	39
cis-1,3-Dichloropropene	50.0	59.8		ug/kg		120	74 - 136	0.6	50
trans-1,3-Dichloropropene	50.0	57.1		ug/kg		114	73 - 128	0.8	48
1,1-Dichloropropene	50.0	52.4		ug/kg		105	78 - 125	1	50
Ethylbenzene	50.0	55.3		ug/kg		111	79 - 130	1	50
Hexachlorobutadiene	50.0	65.0		ug/kg		130	75 - 150	2	50
2-Hexanone	250	252		ug/kg		101	65 - 150	2	50
Isopropylbenzene	50.0	61.2	L	ug/kg		122	65 - 121	0.9	50
p-Isopropyltoluene	50.0	59.2		ug/kg		118	76 - 133	0.7	50
Methyl tert-Butyl Ether	50.0	50.9		ug/kg		102	70 - 128	2	50
Methylene Chloride	50.0	53.3		ug/kg		107	69 - 140	2	50
4-Methyl-2-pentanone	250	257		ug/kg		103	67 - 147	4	45
Naphthalene	50.0	62.1		ug/kg		124	72 - 150	2	50
n-Propylbenzene	50.0	56.8		ug/kg		114	76 - 133	0.3	50
Styrene	50.0	57.5		ug/kg		115	80 - 140	2	50
1,1,1,2-Tetrachloroethane	50.0	54.1		ug/kg		108	80 - 132	1	50
1,1,2,2-Tetrachloroethane	50.0	50.0		ug/kg		100	75 - 135	3	45
Tetrachloroethene	50.0	61.2		ug/kg		122	76 - 130	2	50
Toluene	50.0	54.3		ug/kg		109	76 - 126	0.5	50
1,2,3-Trichlorobenzene	50.0	77.2	L	ug/kg		154	75 - 150	2	50
1,2,4-Trichlorobenzene	50.0	86.7	L	ug/kg		173	64 - 150	3	50
1,1,2-Trichloroethane	50.0	52.5		ug/kg		105	73 - 133	2	50
1,1,1-Trichloroethane	50.0	52.0		ug/kg		104	70 - 132	0.9	41
Trichloroethene	50.0	53.2		ug/kg		106	79 - 129	1	50
Trichlorofluoromethane	50.0	46.5		ug/kg		93	52 - 148	1	47
1,2,3-Trichloropropane	50.0	49.1		ug/kg		98	70 - 125	3	47
1,3,5-Trimethylbenzene	50.0	57.8		ug/kg		116	80 - 134	1	50
1,2,4-Trimethylbenzene	50.0	59.0		ug/kg		118	80 - 132	1	50
Vinyl chloride	50.0	43.9		ug/kg		88	53 - 142	3	39
Xylenes, total	150	167		ug/kg		111	80 - 130	0.5	50

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*94*		*67 - 138*
Dibromofluoromethane	*99*		*75 - 125*
Toluene-d8	*103*		*76 - 129*
4-Bromofluorobenzene	*97*		*67 - 147*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4528-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010814 **Prep Batch: 11F4528_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	ND		0.264	0.204		mg/kg dry	☼	77	29 - 181
Benzene	ND		0.0527	0.0475		mg/kg dry	☼	90	42 - 141
Bromobenzene	ND		0.0527	0.0480		mg/kg dry	☼	91	19 - 154
Bromochloromethane	ND		0.0527	0.0484		mg/kg dry	☼	92	41 - 146
Bromodichloromethane	ND		0.0527	0.0503		mg/kg dry	☼	95	32 - 155
Bromoform	ND		0.0527	0.0429		mg/kg dry	☼	81	10 - 155
Bromomethane	ND		0.0527	0.0570		mg/kg dry	☼	108	10 - 199
1,2-Dibromo-3-chloropropane	ND		0.0527	0.0423		mg/kg dry	☼	80	10 - 167
2-Butanone	ND		0.264	0.217		mg/kg dry	☼	82	38 - 161
sec-Butylbenzene	ND		0.0527	0.0505		mg/kg dry	☼	96	10 - 170
n-Butylbenzene	ND		0.0527	0.0566		mg/kg dry	☼	107	10 - 183
tert-Butylbenzene	ND		0.0527	0.0479		mg/kg dry	☼	91	11 - 165
Carbon disulfide	ND		0.0527	0.0471		mg/kg dry	☼	89	50 - 136
Carbon Tetrachloride	ND		0.0527	0.0510		mg/kg dry	☼	97	30 - 159
Chlorobenzene	ND		0.0527	0.0501		mg/kg dry	☼	95	25 - 151
Chlorodibromomethane	ND		0.0527	0.0461		mg/kg dry	☼	87	27 - 150
Chloroethane	ND		0.0527	0.0439		mg/kg dry	☼	83	15 - 197
Chloroform	ND		0.0527	0.0470		mg/kg dry	☼	89	33 - 148
Chloromethane	ND		0.0527	0.0374		mg/kg dry	☼	71	10 - 166
2-Chlorotoluene	ND		0.0527	0.0496		mg/kg dry	☼	94	25 - 166
4-Chlorotoluene	ND		0.0527	0.0523		mg/kg dry	☼	99	19 - 163
1,2-Dibromoethane (EDB)	ND		0.0527	0.0485		mg/kg dry	☼	92	30 - 155
Dibromomethane	ND		0.0527	0.0454		mg/kg dry	☼	86	30 - 149
1,4-Dichlorobenzene	ND		0.0527	0.0563		mg/kg dry	☼	107	10 - 170
1,3-Dichlorobenzene	ND		0.0527	0.0564		mg/kg dry	☼	107	10 - 173
1,2-Dichlorobenzene	ND		0.0527	0.0515		mg/kg dry	☼	98	10 - 168
Dichlorodifluoromethane	ND		0.0527	0.0291		mg/kg dry	☼	55	10 - 188
1,1-Dichloroethane	ND		0.0527	0.0478		mg/kg dry	☼	91	51 - 135
1,2-Dichloroethane	ND		0.0527	0.0459		mg/kg dry	☼	87	32 - 155
cis-1,2-Dichloroethene	ND		0.0527	0.0480		mg/kg dry	☼	91	32 - 150
1,1-Dichloroethene	ND		0.0527	0.0488		mg/kg dry	☼	93	46 - 141
trans-1,2-Dichloroethene	ND		0.0527	0.0490		mg/kg dry	☼	93	41 - 146
1,3-Dichloropropane	ND		0.0527	0.0475		mg/kg dry	☼	90	35 - 148
1,2-Dichloropropane	ND		0.0527	0.0438		mg/kg dry	☼	83	34 - 139
2,2-Dichloropropane	ND		0.0527	0.0482		mg/kg dry	☼	91	29 - 152
cis-1,3-Dichloropropene	ND		0.0527	0.0561		mg/kg dry	☼	106	23 - 152
trans-1,3-Dichloropropene	ND		0.0527	0.0514		mg/kg dry	☼	98	24 - 151
1,1-Dichloropropene	ND		0.0527	0.0500		mg/kg dry	☼	95	40 - 151
Ethylbenzene	ND		0.0527	0.0506		mg/kg dry	☼	96	21 - 165
Hexachlorobutadiene	ND		0.0527	0.0498		mg/kg dry	☼	94	10 - 173
2-Hexanone	ND		0.264	0.231		mg/kg dry	☼	88	13 - 174
Isopropylbenzene	ND		0.0527	0.0556		mg/kg dry	☼	105	20 - 139
p-Isopropyltoluene	ND		0.0527	0.0537		mg/kg dry	☼	102	10 - 164
Methyl tert-Butyl Ether	ND		0.0527	0.0466		mg/kg dry	☼	88	34 - 154
Methylene Chloride	0.00434		0.0527	0.0517		mg/kg dry	☼	90	36 - 163
4-Methyl-2-pentanone	ND		0.264	0.241		mg/kg dry	☼	91	19 - 176
Naphthalene	ND		0.0527	0.0456		mg/kg dry	☼	87	10 - 160
n-Propylbenzene	ND		0.0527	0.0522		mg/kg dry	☼	99	16 - 174
Styrene	ND		0.0527	0.0513		mg/kg dry	☼	97	10 - 177

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4528-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010814 **Prep Batch: 11F4528_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	ND		0.0527	0.0492		mg/kg dry	☼	93	31 - 150
1,1,2,2-Tetrachloroethane	ND		0.0527	0.0466		mg/kg dry	☼	88	27 - 163
Tetrachloroethene	ND		0.0527	0.0566		mg/kg dry	☼	107	33 - 155
Toluene	0.00128		0.0527	0.0521		mg/kg dry	☼	96	45 - 145
1,2,3-Trichlorobenzene	ND		0.0527	0.0570		mg/kg dry	☼	108	10 - 182
1,2,4-Trichlorobenzene	ND		0.0527	0.0681		mg/kg dry	☼	129	10 - 175
1,1,2-Trichloroethane	ND		0.0527	0.0501		mg/kg dry	☼	95	43 - 145
1,1,1-Trichloroethane	ND		0.0527	0.0490		mg/kg dry	☼	93	39 - 148
Trichloroethene	ND		0.0527	0.0502		mg/kg dry	☼	95	39 - 150
Trichlorofluoromethane	ND		0.0527	0.0436		mg/kg dry	☼	83	25 - 174
1,2,3-Trichloropropane	ND		0.0527	0.0484		mg/kg dry	☼	92	10 - 152
1,3,5-Trimethylbenzene	ND		0.0527	0.0520		mg/kg dry	☼	98	38 - 148
1,2,4-Trimethylbenzene	ND		0.0527	0.0531		mg/kg dry	☼	101	22 - 164
Vinyl chloride	ND		0.0527	0.0403		mg/kg dry	☼	76	32 - 163
Xylenes, total	ND		0.158	0.153		mg/kg dry	☼	96	31 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*103*		*67 - 138*
Dibromofluoromethane	*98*		*75 - 125*
Toluene-d8	*105*		*76 - 129*
4-Bromofluorobenzene	*99*		*67 - 147*

Lab Sample ID: 11F4528-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010814 **Prep Batch: 11F4528_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	ND		0.250	0.192		mg/kg dry	☼	77	29 - 181	6	50
Benzene	ND		0.0500	0.0451		mg/kg dry	☼	90	42 - 141	5	50
Bromobenzene	ND		0.0500	0.0486		mg/kg dry	☼	97	19 - 154	1	50
Bromochloromethane	ND		0.0500	0.0462		mg/kg dry	☼	92	41 - 146	5	50
Bromodichloromethane	ND		0.0500	0.0478		mg/kg dry	☼	96	32 - 155	5	50
Bromoform	ND		0.0500	0.0415		mg/kg dry	☼	83	10 - 155	3	43
Bromomethane	ND		0.0500	0.0507		mg/kg dry	☼	101	10 - 199	12	46
1,2-Dibromo-3-chloropropane	ND		0.0500	0.0409		mg/kg dry	☼	82	10 - 167	3	45
2-Butanone	ND		0.250	0.204		mg/kg dry	☼	82	38 - 161	6	50
sec-Butylbenzene	ND		0.0500	0.0514		mg/kg dry	☼	103	10 - 170	2	50
n-Butylbenzene	ND		0.0500	0.0597		mg/kg dry	☼	120	10 - 183	5	50
tert-Butylbenzene	ND		0.0500	0.0477		mg/kg dry	☼	95	11 - 165	0.5	50
Carbon disulfide	ND		0.0500	0.0444		mg/kg dry	☼	89	50 - 136	6	48
Carbon Tetrachloride	ND		0.0500	0.0483		mg/kg dry	☼	97	30 - 159	5	44
Chlorobenzene	ND		0.0500	0.0495		mg/kg dry	☼	99	25 - 151	1	50
Chlorodibromomethane	ND		0.0500	0.0442		mg/kg dry	☼	88	27 - 150	4	48
Chloroethane	ND		0.0500	0.0409		mg/kg dry	☼	82	15 - 197	7	50
Chloroform	ND		0.0500	0.0438		mg/kg dry	☼	88	33 - 148	7	50
Chloromethane	ND		0.0500	0.0345		mg/kg dry	☼	69	10 - 166	8	44
2-Chlorotoluene	ND		0.0500	0.0488		mg/kg dry	☼	98	25 - 166	2	50
4-Chlorotoluene	ND		0.0500	0.0529		mg/kg dry	☼	106	19 - 163	1	50
1,2-Dibromoethane (EDB)	ND		0.0500	0.0465		mg/kg dry	☼	93	30 - 155	4	45

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4528-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010814 **Prep Batch: 11F4528_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dibromomethane	ND		0.0500	0.0435		mg/kg dry	☼	87	30 - 149	4	50
1,4-Dichlorobenzene	ND		0.0500	0.0575		mg/kg dry	☼	115	10 - 170	2	50
1,3-Dichlorobenzene	ND		0.0500	0.0570		mg/kg dry	☼	114	10 - 173	1	50
1,2-Dichlorobenzene	ND		0.0500	0.0529		mg/kg dry	☼	106	10 - 168	3	50
Dichlorodifluoromethane	ND		0.0500	0.0271		mg/kg dry	☼	54	10 - 188	7	50
1,1-Dichloroethane	ND		0.0500	0.0450		mg/kg dry	☼	90	51 - 135	6	50
1,2-Dichloroethane	ND		0.0500	0.0433		mg/kg dry	☼	87	32 - 155	6	50
cis-1,2-Dichloroethene	ND		0.0500	0.0448		mg/kg dry	☼	90	32 - 150	7	50
1,1-Dichloroethene	ND		0.0500	0.0455		mg/kg dry	☼	91	46 - 141	7	50
trans-1,2-Dichloroethene	ND		0.0500	0.0459		mg/kg dry	☼	92	41 - 146	7	40
1,3-Dichloropropane	ND		0.0500	0.0456		mg/kg dry	☼	91	35 - 148	4	42
1,2-Dichloropropane	ND		0.0500	0.0420		mg/kg dry	☼	84	34 - 139	4	50
2,2-Dichloropropane	ND		0.0500	0.0450		mg/kg dry	☼	90	29 - 152	7	39
cis-1,3-Dichloropropene	ND		0.0500	0.0535		mg/kg dry	☼	107	23 - 152	5	50
trans-1,3-Dichloropropene	ND		0.0500	0.0494		mg/kg dry	☼	99	24 - 151	4	48
1,1-Dichloropropene	ND		0.0500	0.0483		mg/kg dry	☼	97	40 - 151	4	50
Ethylbenzene	ND		0.0500	0.0501		mg/kg dry	☼	100	21 - 165	1	50
Hexachlorobutadiene	ND		0.0500	0.0573		mg/kg dry	☼	115	10 - 173	14	50
2-Hexanone	ND		0.250	0.215		mg/kg dry	☼	86	13 - 174	7	50
Isopropylbenzene	ND		0.0500	0.0559		mg/kg dry	☼	112	20 - 139	0.5	50
p-Isopropyltoluene	ND		0.0500	0.0540		mg/kg dry	☼	108	10 - 164	0.5	50
Methyl tert-Butyl Ether	ND		0.0500	0.0447		mg/kg dry	☼	89	34 - 154	4	50
Methylene Chloride	0.00434		0.0500	0.0506		mg/kg dry	☼	93	36 - 163	2	50
4-Methyl-2-pentanone	ND		0.250	0.224		mg/kg dry	☼	90	19 - 176	7	45
Naphthalene	ND		0.0500	0.0450		mg/kg dry	☼	90	10 - 160	1	50
n-Propylbenzene	ND		0.0500	0.0519		mg/kg dry	☼	104	16 - 174	0.7	50
Styrene	ND		0.0500	0.0503		mg/kg dry	☼	101	10 - 177	2	50
1,1,1,2-Tetrachloroethane	ND		0.0500	0.0487		mg/kg dry	☼	98	31 - 150	0.9	50
1,1,2,2-Tetrachloroethane	ND		0.0500	0.0446		mg/kg dry	☼	89	27 - 163	4	45
Tetrachloroethene	ND		0.0500	0.0554		mg/kg dry	☼	111	33 - 155	2	50
Toluene	0.00128		0.0500	0.0501		mg/kg dry	☼	98	45 - 145	4	50
1,2,3-Trichlorobenzene	ND		0.0500	0.0593		mg/kg dry	☼	119	10 - 182	4	50
1,2,4-Trichlorobenzene	ND		0.0500	0.0708		mg/kg dry	☼	142	10 - 175	4	50
1,1,2-Trichloroethane	ND		0.0500	0.0463		mg/kg dry	☼	93	43 - 145	8	50
1,1,1-Trichloroethane	ND		0.0500	0.0458		mg/kg dry	☼	92	39 - 148	7	41
Trichloroethene	ND		0.0500	0.0485		mg/kg dry	☼	97	39 - 150	3	50
Trichlorofluoromethane	ND		0.0500	0.0408		mg/kg dry	☼	82	25 - 174	7	47
1,2,3-Trichloropropane	ND		0.0500	0.0432		mg/kg dry	☼	86	10 - 152	11	47
1,3,5-Trimethylbenzene	ND		0.0500	0.0531		mg/kg dry	☼	106	38 - 148	2	50
1,2,4-Trimethylbenzene	ND		0.0500	0.0532		mg/kg dry	☼	107	22 - 164	0.2	50
Vinyl chloride	ND		0.0500	0.0373		mg/kg dry	☼	75	32 - 163	8	39
Xylenes, total	ND		0.150	0.152		mg/kg dry	☼	101	31 - 159	0.7	50

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*107*		*67 - 138*
Dibromofluoromethane	*100*		*75 - 125*
Toluene-d8	*104*		*76 - 129*
4-Bromofluorobenzene	*100*		*67 - 147*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4890-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010835 **Prep Batch: 11F4890_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Benzene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Bromobenzene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Bromochloromethane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Bromodichloromethane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Bromoform	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Bromomethane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,2-Dibromo-3-chloropropane	ND		0.00500		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
2-Butanone	ND		0.0500		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
sec-Butylbenzene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
n-Butylbenzene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
tert-Butylbenzene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Carbon disulfide	ND		0.00500		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Carbon Tetrachloride	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Chlorobenzene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Chlorodibromomethane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Chloroethane	ND		0.00500		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Chloroform	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Chloromethane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
2-Chlorotoluene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
4-Chlorotoluene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,2-Dibromoethane (EDB)	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Dibromomethane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,4-Dichlorobenzene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,3-Dichlorobenzene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,2-Dichlorobenzene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Dichlorodifluoromethane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,1-Dichloroethane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,2-Dichloroethane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
cis-1,2-Dichloroethene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,1-Dichloroethene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
trans-1,2-Dichloroethene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,3-Dichloropropane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,2-Dichloropropane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
2,2-Dichloropropane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
cis-1,3-Dichloropropene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
trans-1,3-Dichloropropene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,1-Dichloropropene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Ethylbenzene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Hexachlorobutadiene	ND		0.00500		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
2-Hexanone	ND		0.0500		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Isopropylbenzene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
p-Isopropyltoluene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Methyl tert-Butyl Ether	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Methylene Chloride	ND		0.0100		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
4-Methyl-2-pentanone	ND		0.0500		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Naphthalene	ND		0.00500		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
n-Propylbenzene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Styrene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4890-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010835 **Prep Batch: 11F4890_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Tetrachloroethene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Toluene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,2,3-Trichlorobenzene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,2,4-Trichlorobenzene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,1,2-Trichloroethane	ND		0.00500		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,1,1-Trichloroethane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Trichloroethene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Trichlorofluoromethane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,2,3-Trichloropropane	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,3,5-Trimethylbenzene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
1,2,4-Trimethylbenzene	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Vinyl chloride	ND		0.00200		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00
Xylenes, total	ND		0.00500		mg/kg wet		06/19/11 00:43	06/19/11 11:55	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*97*		*67 - 138*	*06/19/11 00:43*	*06/19/11 11:55*	*1.00*
Dibromofluoromethane	*102*		*75 - 125*	*06/19/11 00:43*	*06/19/11 11:55*	*1.00*
Toluene-d8	*100*		*76 - 129*	*06/19/11 00:43*	*06/19/11 11:55*	*1.00*
4-Bromofluorobenzene	*99*		*67 - 147*	*06/19/11 00:43*	*06/19/11 11:55*	*1.00*

Lab Sample ID: 11F4890-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010835 **Prep Batch: 11F4890_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.50		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Benzene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Bromobenzene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Bromochloromethane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Bromodichloromethane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Bromoform	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Bromomethane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,2-Dibromo-3-chloropropane	ND		0.250		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
2-Butanone	ND		2.50		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
sec-Butylbenzene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
n-Butylbenzene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
tert-Butylbenzene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Carbon disulfide	ND		0.250		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Carbon Tetrachloride	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Chlorobenzene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Chlorodibromomethane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Chloroethane	ND		0.250		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Chloroform	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Chloromethane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
2-Chlorotoluene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
4-Chlorotoluene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,2-Dibromoethane (EDB)	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4890-BLK2 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010835 **Prep Batch: 11F4890_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,4-Dichlorobenzene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,3-Dichlorobenzene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,2-Dichlorobenzene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Dichlorodifluoromethane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,1-Dichloroethane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,2-Dichloroethane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
cis-1,2-Dichloroethene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,1-Dichloroethene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
trans-1,2-Dichloroethene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,3-Dichloropropane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,2-Dichloropropane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
2,2-Dichloropropane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
cis-1,3-Dichloropropene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
trans-1,3-Dichloropropene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,1-Dichloropropene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Ethylbenzene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Hexachlorobutadiene	ND		0.250		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
2-Hexanone	ND		2.50		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Isopropylbenzene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
p-Isopropyltoluene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Methyl tert-Butyl Ether	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Methylene Chloride	ND		0.500		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
4-Methyl-2-pentanone	ND		2.50		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Naphthalene	ND		0.250		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
n-Propylbenzene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Styrene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,1,1,2-Tetrachloroethane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,1,2,2-Tetrachloroethane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Tetrachloroethene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Toluene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,2,3-Trichlorobenzene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,2,4-Trichlorobenzene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,1,2-Trichloroethane	ND		0.250		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,1,1-Trichloroethane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Trichloroethene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Trichlorofluoromethane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,2,3-Trichloropropane	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,3,5-Trimethylbenzene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
1,2,4-Trimethylbenzene	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Vinyl chloride	ND		0.100		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0
Xylenes, total	ND		0.250		mg/kg wet		06/19/11 00:43	06/19/11 12:25	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*92*		*67 - 138*	*06/19/11 00:43*	*06/19/11 12:25*	*50.0*
Dibromofluoromethane	*99*		*75 - 125*	*06/19/11 00:43*	*06/19/11 12:25*	*50.0*
Toluene-d8	*102*		*76 - 129*	*06/19/11 00:43*	*06/19/11 12:25*	*50.0*
4-Bromofluorobenzene	*98*		*67 - 147*	*06/19/11 00:43*	*06/19/11 12:25*	*50.0*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4890-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010835 **Prep Batch: 11F4890_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	236		ug/kg		95	60 - 150
Benzene	50.0	49.4		ug/kg		99	78 - 126
Bromobenzene	50.0	54.8		ug/kg		110	79 - 126
Bromochloromethane	50.0	53.9		ug/kg		108	78 - 126
Bromodichloromethane	50.0	59.2		ug/kg		118	75 - 129
Bromoform	50.0	49.2		ug/kg		98	74 - 133
Bromomethane	50.0	72.9		ug/kg		146	50 - 150
1,2-Dibromo-3-chloropropane	50.0	45.8		ug/kg		92	62 - 150
2-Butanone	250	267		ug/kg		107	68 - 149
sec-Butylbenzene	50.0	57.4		ug/kg		115	76 - 135
n-Butylbenzene	50.0	64.0		ug/kg		128	73 - 143
tert-Butylbenzene	50.0	52.7		ug/kg		105	80 - 129
Carbon disulfide	50.0	51.6		ug/kg		103	80 - 132
Carbon Tetrachloride	50.0	52.2		ug/kg		104	70 - 138
Chlorobenzene	50.0	54.1		ug/kg		108	80 - 123
Chlorodibromomethane	50.0	48.6		ug/kg		97	80 - 127
Chloroethane	50.0	51.2		ug/kg		102	55 - 150
Chloroform	50.0	48.4		ug/kg		97	70 - 127
Chloromethane	50.0	50.6		ug/kg		101	36 - 137
2-Chlorotoluene	50.0	56.2		ug/kg		112	80 - 130
4-Chlorotoluene	50.0	59.5		ug/kg		119	77 - 132
1,2-Dibromoethane (EDB)	50.0	51.5		ug/kg		103	80 - 131
Dibromomethane	50.0	54.1		ug/kg		108	78 - 128
1,4-Dichlorobenzene	50.0	63.3		ug/kg		127	80 - 129
1,3-Dichlorobenzene	50.0	63.3		ug/kg		127	80 - 131
1,2-Dichlorobenzene	50.0	58.4		ug/kg		117	80 - 127
Dichlorodifluoromethane	50.0	43.2		ug/kg		86	30 - 150
1,1-Dichloroethane	50.0	47.1		ug/kg		94	71 - 126
1,2-Dichloroethane	50.0	51.2		ug/kg		102	70 - 139
cis-1,2-Dichloroethene	50.0	49.2		ug/kg		98	75 - 126
1,1-Dichloroethene	50.0	47.3		ug/kg		95	70 - 125
trans-1,2-Dichloroethene	50.0	45.3		ug/kg		91	73 - 128
1,3-Dichloropropane	50.0	48.6		ug/kg		97	79 - 128
1,2-Dichloropropane	50.0	50.1		ug/kg		100	75 - 120
2,2-Dichloropropane	50.0	49.4		ug/kg		99	60 - 139
cis-1,3-Dichloropropene	50.0	55.0		ug/kg		110	74 - 136
trans-1,3-Dichloropropene	50.0	55.0		ug/kg		110	73 - 128
1,1-Dichloropropene	50.0	51.2		ug/kg		102	78 - 125
Ethylbenzene	50.0	54.0		ug/kg		108	79 - 130
Hexachlorobutadiene	50.0	64.0		ug/kg		128	75 - 150
2-Hexanone	250	239		ug/kg		95	65 - 150
Isopropylbenzene	50.0	61.8	L1	ug/kg		124	65 - 121
p-Isopropyltoluene	50.0	60.0		ug/kg		120	76 - 133
Methyl tert-Butyl Ether	50.0	47.4		ug/kg		95	70 - 128
Methylene Chloride	50.0	52.1		ug/kg		104	69 - 140
4-Methyl-2-pentanone	250	237		ug/kg		95	67 - 147
Naphthalene	50.0	59.0		ug/kg		118	72 - 150
n-Propylbenzene	50.0	58.4		ug/kg		117	76 - 133
Styrene	50.0	57.2		ug/kg		114	80 - 140

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4890-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010835 **Prep Batch: 11F4890_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	54.0		ug/kg		108	80 - 132
1,1,2,2-Tetrachloroethane	50.0	48.3		ug/kg		97	75 - 135
Tetrachloroethene	50.0	55.5		ug/kg		111	76 - 130
Toluene	50.0	49.3		ug/kg		99	76 - 126
1,2,3-Trichlorobenzene	50.0	77.3	L	ug/kg		155	75 - 150
1,2,4-Trichlorobenzene	50.0	85.2	L	ug/kg		170	64 - 150
1,1,2-Trichloroethane	50.0	49.7		ug/kg		99	73 - 133
1,1,1-Trichloroethane	50.0	49.9		ug/kg		100	70 - 132
Trichloroethene	50.0	55.3		ug/kg		111	79 - 129
Trichlorofluoromethane	50.0	45.9		ug/kg		92	52 - 148
1,2,3-Trichloropropane	50.0	48.4		ug/kg		97	70 - 125
1,3,5-Trimethylbenzene	50.0	59.1		ug/kg		118	80 - 134
1,2,4-Trimethylbenzene	50.0	59.3		ug/kg		119	80 - 132
Vinyl chloride	50.0	48.2		ug/kg		96	53 - 142
Xylenes, total	150	165		ug/kg		110	80 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*107*		*67 - 138*
Dibromofluoromethane	*102*		*75 - 125*
Toluene-d8	*91*		*76 - 129*
4-Bromofluorobenzene	*100*		*67 - 147*

Lab Sample ID: 11F4890-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010835 **Prep Batch: 11F4890_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	ND		11.6	8.63		mg/kg wet		74	29 - 181
Benzene	ND		2.32	1.90		mg/kg wet		82	42 - 141
Bromobenzene	ND		2.32	1.75		mg/kg wet		76	19 - 154
Bromochloromethane	ND		2.32	1.94		mg/kg wet		84	41 - 146
Bromodichloromethane	ND		2.32	1.98		mg/kg wet		85	32 - 155
Bromoform	ND		2.32	1.41		mg/kg wet		61	10 - 155
Bromomethane	ND		2.32	1.11		mg/kg wet		48	10 - 199
1,2-Dibromo-3-chloropropane	ND		2.32	1.22		mg/kg wet		53	10 - 167
2-Butanone	ND		11.6	7.60		mg/kg wet		66	38 - 161
sec-Butylbenzene	0.136		2.32	2.21		mg/kg wet		89	10 - 170
n-Butylbenzene	0.885		2.32	3.32		mg/kg wet		105	10 - 183
tert-Butylbenzene	ND		2.32	1.98		mg/kg wet		85	11 - 165
Carbon disulfide	ND		2.32	1.88		mg/kg wet		81	50 - 136
Carbon Tetrachloride	ND		2.32	2.26		mg/kg wet		97	30 - 159
Chlorobenzene	ND		2.32	2.09		mg/kg wet		90	25 - 151
Chlorodibromomethane	ND		2.32	1.55		mg/kg wet		67	27 - 150
Chloroethane	ND		2.32	0.610		mg/kg wet		26	15 - 197
Chloroform	ND		2.32	1.94		mg/kg wet		84	33 - 148
Chloromethane	ND		2.32	1.66		mg/kg wet		71	10 - 166
2-Chlorotoluene	ND		2.32	2.50		mg/kg wet		108	25 - 166
4-Chlorotoluene	ND		2.32	2.21		mg/kg wet		95	19 - 163
1,2-Dibromoethane (EDB)	ND		2.32	1.75		mg/kg wet		75	30 - 155

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4890-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010835 **Prep Batch: 11F4890_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Dibromomethane	ND		2.32	1.74		mg/kg wet		75	30 - 149
1,4-Dichlorobenzene	ND		2.32	2.53		mg/kg wet		109	10 - 170
1,3-Dichlorobenzene	ND		2.32	2.53		mg/kg wet		109	10 - 173
1,2-Dichlorobenzene	ND		2.32	2.29		mg/kg wet		99	10 - 168
Dichlorodifluoromethane	ND		2.32	0.453		mg/kg wet		20	10 - 188
1,1-Dichloroethane	ND		2.32	1.85		mg/kg wet		80	51 - 135
1,2-Dichloroethane	ND		2.32	1.99		mg/kg wet		86	32 - 155
cis-1,2-Dichloroethene	ND		2.32	1.97		mg/kg wet		85	32 - 150
1,1-Dichloroethene	ND		2.32	2.06		mg/kg wet		89	46 - 141
trans-1,2-Dichloroethene	ND		2.32	1.85		mg/kg wet		80	41 - 146
1,3-Dichloropropane	ND		2.32	1.65		mg/kg wet		71	35 - 148
1,2-Dichloropropane	ND		2.32	1.70		mg/kg wet		73	34 - 139
2,2-Dichloropropane	ND		2.32	2.14		mg/kg wet		92	29 - 152
cis-1,3-Dichloropropene	ND		2.32	1.97		mg/kg wet		85	23 - 152
trans-1,3-Dichloropropene	ND		2.32	1.80		mg/kg wet		78	24 - 151
1,1-Dichloropropene	ND		2.32	2.08		mg/kg wet		90	40 - 151
Ethylbenzene	0.241		2.32	2.36		mg/kg wet		92	21 - 165
Hexachlorobutadiene	ND		2.32	2.78		mg/kg wet		120	10 - 173
2-Hexanone	ND		11.6	6.93		mg/kg wet		60	13 - 174
Isopropylbenzene	0.135		2.32	2.51		mg/kg wet		102	20 - 139
p-Isopropyltoluene	0.0872		2.32	2.38		mg/kg wet		99	10 - 164
Methyl tert-Butyl Ether	ND		2.32	1.75		mg/kg wet		75	34 - 154
Methylene Chloride	ND		2.32	1.91		mg/kg wet		82	36 - 163
4-Methyl-2-pentanone	ND		11.6	6.90		mg/kg wet		59	19 - 176
Naphthalene	1.23		2.32	3.30		mg/kg wet		89	10 - 160
n-Propylbenzene	0.672		2.32	2.73		mg/kg wet		89	16 - 174
Styrene	ND		2.32	2.18		mg/kg wet		94	10 - 177
1,1,1,2-Tetrachloroethane	ND		2.32	1.95		mg/kg wet		84	31 - 150
1,1,2,2-Tetrachloroethane	ND		2.32	1.35		mg/kg wet		58	27 - 163
Tetrachloroethene	ND		2.32	2.53		mg/kg wet		109	33 - 155
Toluene	ND		2.32	2.06		mg/kg wet		89	45 - 145
1,2,3-Trichlorobenzene	ND		2.32	3.06		mg/kg wet		132	10 - 182
1,2,4-Trichlorobenzene	ND		2.32	3.64		mg/kg wet		157	10 - 175
1,1,2-Trichloroethane	ND		2.32	1.69		mg/kg wet		73	43 - 145
1,1,1-Trichloroethane	ND		2.32	2.20		mg/kg wet		95	39 - 148
Trichloroethene	ND		2.32	2.30		mg/kg wet		99	39 - 150
Trichlorofluoromethane	ND		2.32	0.640		mg/kg wet		28	25 - 174
1,2,3-Trichloropropane	ND		2.32	1.45		mg/kg wet		63	10 - 152
1,3,5-Trimethylbenzene	1.76		2.32	3.87		mg/kg wet		91	38 - 148
1,2,4-Trimethylbenzene	5.70		2.32	8.02		mg/kg wet		100	22 - 164
Vinyl chloride	ND		2.32	0.806		mg/kg wet		35	32 - 163
Xylenes, total	2.07		6.96	8.59		mg/kg wet		94	31 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*110*		*67 - 138*
Dibromofluoromethane	*102*		*75 - 125*
Toluene-d8	*100*		*76 - 129*
4-Bromofluorobenzene	*89*		*67 - 147*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4890-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010835 **Prep Batch: 11F4890_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	ND		11.6	8.68		mg/kg wet		75	29 - 181	0.6	50
Benzene	ND		2.32	2.15		mg/kg wet		93	42 - 141	12	50
Bromobenzene	ND		2.32	2.13		mg/kg wet		92	19 - 154	20	50
Bromochloromethane	ND		2.32	2.12		mg/kg wet		91	41 - 146	9	50
Bromodichloromethane	ND		2.32	2.31		mg/kg wet		100	32 - 155	15	50
Bromoform	ND		2.32	1.51		mg/kg wet		65	10 - 155	7	43
Bromomethane	ND		2.32	1.23		mg/kg wet		53	10 - 199	10	46
1,2-Dibromo-3-chloropropane	ND		2.32	1.32		mg/kg wet		57	10 - 167	8	45
2-Butanone	ND		11.6	7.99		mg/kg wet		69	38 - 161	5	50
sec-Butylbenzene	0.136		2.32	2.64		mg/kg wet		108	10 - 170	18	50
n-Butylbenzene	0.885		2.32	3.73		mg/kg wet		123	10 - 183	12	50
tert-Butylbenzene	ND		2.32	2.36		mg/kg wet		102	11 - 165	17	50
Carbon disulfide	ND		2.32	1.98		mg/kg wet		86	50 - 136	5	48
Carbon Tetrachloride	ND		2.32	2.49		mg/kg wet		108	30 - 159	10	44
Chlorobenzene	ND		2.32	2.43		mg/kg wet		105	25 - 151	15	50
Chlorodibromomethane	ND		2.32	1.74		mg/kg wet		75	27 - 150	12	48
Chloroethane	ND		2.32	0.651		mg/kg wet		28	15 - 197	6	50
Chloroform	ND		2.32	2.16		mg/kg wet		93	33 - 148	11	50
Chloromethane	ND		2.32	1.86		mg/kg wet		80	10 - 166	12	44
2-Chlorotoluene	ND		2.32	2.89		mg/kg wet		125	25 - 166	14	50
4-Chlorotoluene	ND		2.32	2.69		mg/kg wet		116	19 - 163	20	50
1,2-Dibromoethane (EDB)	ND		2.32	1.95		mg/kg wet		84	30 - 155	11	45
Dibromomethane	ND		2.32	1.89		mg/kg wet		81	30 - 149	8	50
1,4-Dichlorobenzene	ND		2.32	2.91		mg/kg wet		125	10 - 170	14	50
1,3-Dichlorobenzene	ND		2.32	2.92		mg/kg wet		126	10 - 173	15	50
1,2-Dichlorobenzene	ND		2.32	2.63		mg/kg wet		113	10 - 168	14	50
Dichlorodifluoromethane	ND		2.32	0.548		mg/kg wet		24	10 - 188	19	50
1,1-Dichloroethane	ND		2.32	2.04		mg/kg wet		88	51 - 135	10	50
1,2-Dichloroethane	ND		2.32	2.22		mg/kg wet		96	32 - 155	11	50
cis-1,2-Dichloroethene	ND		2.32	2.16		mg/kg wet		93	32 - 150	9	50
1,1-Dichloroethene	ND		2.32	2.13		mg/kg wet		92	46 - 141	3	50
trans-1,2-Dichloroethene	ND		2.32	2.01		mg/kg wet		87	41 - 146	9	40
1,3-Dichloropropane	ND		2.32	1.90		mg/kg wet		82	35 - 148	14	42
1,2-Dichloropropane	ND		2.32	1.88		mg/kg wet		81	34 - 139	10	50
2,2-Dichloropropane	ND		2.32	2.35		mg/kg wet		101	29 - 152	9	39
cis-1,3-Dichloropropene	ND		2.32	2.34		mg/kg wet		101	23 - 152	17	50
trans-1,3-Dichloropropene	ND		2.32	2.10		mg/kg wet		91	24 - 151	15	48
1,1-Dichloropropene	ND		2.32	2.32		mg/kg wet		100	40 - 151	11	50
Ethylbenzene	0.241		2.32	2.68		mg/kg wet		105	21 - 165	12	50
Hexachlorobutadiene	ND		2.32	3.25		mg/kg wet		140	10 - 173	16	50
2-Hexanone	ND		11.6	7.53		mg/kg wet		65	13 - 174	8	50
Isopropylbenzene	0.135		2.32	2.86		mg/kg wet		117	20 - 139	13	50
p-Isopropyltoluene	0.0872		2.32	2.80		mg/kg wet		117	10 - 164	16	50
Methyl tert-Butyl Ether	ND		2.32	1.86		mg/kg wet		80	34 - 154	6	50
Methylene Chloride	ND		2.32	2.09		mg/kg wet		90	36 - 163	9	50
4-Methyl-2-pentanone	ND		11.6	7.71		mg/kg wet		66	19 - 176	11	45
Naphthalene	1.23		2.32	3.53		mg/kg wet		100	10 - 160	7	50
n-Propylbenzene	0.672		2.32	3.19		mg/kg wet		109	16 - 174	16	50
Styrene	ND		2.32	2.49		mg/kg wet		107	10 - 177	13	50

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11F4890-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010835 **Prep Batch: 11F4890_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		2.32	2.22		mg/kg wet		96	31 - 150	13	50
1,1,2,2-Tetrachloroethane	ND		2.32	1.58		mg/kg wet		68	27 - 163	16	45
Tetrachloroethene	ND		2.32	2.88		mg/kg wet		124	33 - 155	13	50
Toluene	ND		2.32	2.40		mg/kg wet		104	45 - 145	15	50
1,2,3-Trichlorobenzene	ND		2.32	3.50		mg/kg wet		151	10 - 182	13	50
1,2,4-Trichlorobenzene	ND		2.32	4.17	M7	mg/kg wet		180	10 - 175	14	50
1,1,2-Trichloroethane	ND		2.32	1.99		mg/kg wet		86	43 - 145	16	50
1,1,1-Trichloroethane	ND		2.32	2.43		mg/kg wet		105	39 - 148	10	41
Trichloroethene	ND		2.32	2.55		mg/kg wet		110	39 - 150	10	50
Trichlorofluoromethane	ND		2.32	1.37	R2	mg/kg wet		59	25 - 174	73	47
1,2,3-Trichloropropane	ND		2.32	1.63		mg/kg wet		70	10 - 152	11	47
1,3,5-Trimethylbenzene	1.76		2.32	4.48		mg/kg wet		117	38 - 148	14	50
1,2,4-Trimethylbenzene	5.70		2.32	8.70		mg/kg wet		130	22 - 164	8	50
Vinyl chloride	ND		2.32	0.991		mg/kg wet		43	32 - 163	21	39
Xylenes, total	2.07		6.96	9.55		mg/kg wet		107	31 - 159	11	50

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*107*		*67 - 138*
Dibromofluoromethane	*99*		*75 - 125*
Toluene-d8	*104*		*76 - 129*
4-Bromofluorobenzene	*96*		*67 - 147*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D

Lab Sample ID: 11F3295-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3295 **Prep Batch: 11F3295_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Acenaphthylene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Anthracene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Benzo (a) anthracene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Benzo (a) pyrene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Benzo (b) fluoranthene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Benzo (g,h,i) perylene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Benzo (k) fluoranthene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
4-Bromophenyl phenyl ether	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Butyl benzyl phthalate	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Carbazole	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
4-Chloro-3-methylphenol	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
4-Chloroaniline	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Bis(2-chloroethoxy)methane	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Bis(2-chloroethyl)ether	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Bis(2-chloroisopropyl)ether	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
2-Chloronaphthalene	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
2-Chlorophenol	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
4-Chlorophenyl phenyl ether	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Chrysene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3295-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3295 **Prep Batch: 11F3295_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz (a,h) anthracene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Dibenzofuran	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Di-n-butyl phthalate	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
1,4-Dichlorobenzene	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
1,2-Dichlorobenzene	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
1,3-Dichlorobenzene	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
3,3-Dichlorobenzidine	ND		0.667		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
2,4-Dichlorophenol	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Diethyl phthalate	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
2,4-Dimethylphenol	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Dimethyl phthalate	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
4,6-Dinitro-2-methylphenol	ND		0.833		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
2,4-Dinitrophenol	ND		0.833		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
2,6-Dinitrotoluene	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
2,4-Dinitrotoluene	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Di-n-octyl phthalate	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Bis(2-ethylhexyl)phthalate	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Fluoranthene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Fluorene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Hexachlorobenzene	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Hexachlorobutadiene	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Hexachlorocyclopentadiene	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Hexachloroethane	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Isophorone	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
2-Methylnaphthalene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
2-Methylphenol	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
3/4-Methylphenol	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Naphthalene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
3-Nitroaniline	ND		0.833		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
2-Nitroaniline	ND		0.833		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
4-Nitroaniline	ND		0.833		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Nitrobenzene	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
4-Nitrophenol	ND		0.833		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
2-Nitrophenol	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
N-Nitrosodiphenylamine	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
N-Nitrosodi-n-propylamine	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Pentachlorophenol	ND		0.833		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Phenanthrene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Phenol	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Pyrene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
Pyridine	ND		0.667		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
1,2,4-Trichlorobenzene	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
1-Methylnaphthalene	ND		0.0670		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
2,4,6-Trichlorophenol	ND		0.333		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00
2,4,5-Trichlorophenol	ND		0.833		mg/kg wet		06/17/11 09:00	06/18/11 10:45	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*76*		*18 - 120*	*06/17/11 09:00*	*06/18/11 10:45*	*1.00*

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3295-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3295 **Prep Batch: 11F3295_P**

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*68*		*19 - 120*	*06/17/11 09:00*	*06/18/11 10:45*	*1.00*
Phenol-d5	*64*		*18 - 120*	*06/17/11 09:00*	*06/18/11 10:45*	*1.00*
2-Fluorobiphenyl	*56*		*14 - 120*	*06/17/11 09:00*	*06/18/11 10:45*	*1.00*
2-Fluorophenol	*59*		*17 - 120*	*06/17/11 09:00*	*06/18/11 10:45*	*1.00*
Nitrobenzene-d5	*63*		*17 - 120*	*06/17/11 09:00*	*06/18/11 10:45*	*1.00*

Lab Sample ID: 11F3295-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3295 **Prep Batch: 11F3295_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.67	1.06		mg/kg wet		63	49 - 120
Acenaphthylene	1.67	1.07		mg/kg wet		64	52 - 120
Anthracene	1.67	1.17		mg/kg wet		70	58 - 120
Benzo (a) anthracene	1.67	1.18		mg/kg wet		71	57 - 120
Benzo (a) pyrene	1.67	1.20		mg/kg wet		72	55 - 120
Benzo (b) fluoranthene	1.67	1.31		mg/kg wet		78	51 - 123
Benzo (g,h,i) perylene	1.67	1.21		mg/kg wet		73	49 - 121
Benzo (k) fluoranthene	1.67	1.03		mg/kg wet		62	42 - 129
4-Bromophenyl phenyl ether	1.67	1.11		mg/kg wet		67	49 - 120
Butyl benzyl phthalate	1.67	1.37		mg/kg wet		82	59 - 124
Carbazole	1.67	1.16		mg/kg wet		70	54 - 120
4-Chloro-3-methylphenol	1.67	1.16		mg/kg wet		70	49 - 120
4-Chloroaniline	1.67	1.14		mg/kg wet		68	41 - 120
Bis(2-chloroethoxy)methane	1.67	1.12		mg/kg wet		67	37 - 120
Bis(2-chloroethyl)ether	1.67	1.20		mg/kg wet		72	29 - 120
Bis(2-chloroisopropyl)ether	1.67	1.06		mg/kg wet		64	28 - 120
2-Chloronaphthalene	1.67	1.08		mg/kg wet		65	45 - 120
2-Chlorophenol	1.67	1.19		mg/kg wet		71	42 - 120
4-Chlorophenyl phenyl ether	1.67	1.14		mg/kg wet		68	52 - 120
Chrysene	1.67	1.11		mg/kg wet		66	55 - 120
Dibenz (a,h) anthracene	1.67	1.23		mg/kg wet		74	50 - 123
Dibenzofuran	1.67	1.16		mg/kg wet		70	54 - 120
Di-n-butyl phthalate	1.67	1.17		mg/kg wet		70	58 - 120
1,4-Dichlorobenzene	1.67	1.02		mg/kg wet		61	15 - 120
1,2-Dichlorobenzene	1.67	1.07		mg/kg wet		64	17 - 120
1,3-Dichlorobenzene	1.67	1.09		mg/kg wet		66	13 - 120
3,3-Dichlorobenzidine	1.67	1.19		mg/kg wet		72	54 - 120
2,4-Dichlorophenol	1.67	1.15		mg/kg wet		69	43 - 120
Diethyl phthalate	1.67	1.09		mg/kg wet		65	52 - 120
2,4-Dimethylphenol	1.67	1.20		mg/kg wet		72	47 - 120
Dimethyl phthalate	1.67	1.11		mg/kg wet		67	55 - 120
4,6-Dinitro-2-methylphenol	1.67	1.19		mg/kg wet		72	27 - 134
2,4-Dinitrophenol	1.67	1.09		mg/kg wet		66	15 - 145
2,6-Dinitrotoluene	1.67	1.06		mg/kg wet		64	56 - 120
2,4-Dinitrotoluene	1.67	1.22		mg/kg wet		73	55 - 122
Di-n-octyl phthalate	1.67	1.30		mg/kg wet		78	48 - 131
Bis(2-ethylhexyl)phthalate	1.67	1.31		mg/kg wet		79	51 - 127
Fluoranthene	1.67	1.15		mg/kg wet		69	58 - 120

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3295-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3295 **Prep Batch: 11F3295_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Fluorene	1.67	1.15		mg/kg wet		69	54 - 120
Hexachlorobenzene	1.67	1.15		mg/kg wet		69	56 - 120
Hexachlorobutadiene	1.67	0.982		mg/kg wet		59	19 - 120
Hexachlorocyclopentadiene	1.67	0.913		mg/kg wet		55	11 - 120
Hexachloroethane	1.67	1.11		mg/kg wet		67	14 - 120
Indeno (1,2,3-cd) pyrene	1.67	1.22		mg/kg wet		73	50 - 122
Isophorone	1.67	1.12		mg/kg wet		67	43 - 120
2-Methylnaphthalene	1.67	1.01		mg/kg wet		61	36 - 120
2-Methylphenol	1.67	1.19		mg/kg wet		71	47 - 120
3/4-Methylphenol	1.67	1.24		mg/kg wet		74	53 - 135
Naphthalene	1.67	1.08		mg/kg wet		65	28 - 120
3-Nitroaniline	1.67	1.20		mg/kg wet		72	54 - 120
2-Nitroaniline	1.67	1.20		mg/kg wet		72	59 - 120
4-Nitroaniline	1.67	1.07		mg/kg wet		64	55 - 121
Nitrobenzene	1.67	0.966		mg/kg wet		58	30 - 120
4-Nitrophenol	1.67	1.25		mg/kg wet		75	44 - 133
2-Nitrophenol	1.67	1.15		mg/kg wet		69	36 - 120
N-Nitrosodiphenylamine	1.67	1.31		mg/kg wet		78	56 - 120
N-Nitrosodi-n-propylamine	1.67	1.22		mg/kg wet		73	45 - 120
Pentachlorophenol	1.67	1.33		mg/kg wet		80	42 - 135
Phenanthrene	1.67	1.13		mg/kg wet		68	56 - 120
Phenol	1.67	1.18		mg/kg wet		71	45 - 120
Pyrene	1.67	1.24		mg/kg wet		74	56 - 120
Pyridine	1.67	1.12		mg/kg wet		67	26 - 120
1,2,4-Trichlorobenzene	1.67	0.932		mg/kg wet		56	22 - 120
1-Methylnaphthalene	1.67	0.932		mg/kg wet		56	36 - 120
2,4,6-Trichlorophenol	1.67	1.22		mg/kg wet		73	50 - 120
2,4,5-Trichlorophenol	1.67	1.13		mg/kg wet		68	54 - 120

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*74*		*18 - 120*
2,4,6-Tribromophenol	*64*		*19 - 120*
Phenol-d5	*60*		*18 - 120*
2-Fluorobiphenyl	*54*		*14 - 120*
2-Fluorophenol	*60*		*17 - 120*
Nitrobenzene-d5	*54*		*17 - 120*

Lab Sample ID: 11F3295-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3295 **Prep Batch: 11F3295_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	ND		2.12	1.31		mg/kg dry	☼	62	42 - 120
Acenaphthylene	ND		2.12	1.36		mg/kg dry	☼	64	32 - 120
Anthracene	ND		2.12	1.54		mg/kg dry	☼	72	10 - 200
Benzo (a) anthracene	ND		2.12	1.47		mg/kg dry	☼	69	41 - 120
Benzo (a) pyrene	ND		2.12	1.47		mg/kg dry	☼	69	33 - 121
Benzo (b) fluoranthene	ND		2.12	1.47		mg/kg dry	☼	69	26 - 137
Benzo (g,h,i) perylene	ND		2.12	1.50		mg/kg dry	☼	71	21 - 124

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3295-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3295 **Prep Batch: 11F3295_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Benzo (k) fluoranthene	ND		2.12	1.45		mg/kg dry	☼	68	14 - 140
4-Bromophenyl phenyl ether	ND		2.12	1.57		mg/kg dry	☼	74	39 - 120
Butyl benzyl phthalate	ND		2.12	1.72		mg/kg dry	☼	81	47 - 124
Carbazole	ND		2.12	1.61		mg/kg dry	☼	76	37 - 120
4-Chloro-3-methylphenol	ND		2.12	1.43		mg/kg dry	☼	67	38 - 120
4-Chloroaniline	ND		2.12	1.36		mg/kg dry	☼	64	20 - 120
Bis(2-chloroethoxy)methane	ND		2.12	1.33		mg/kg dry	☼	62	32 - 120
Bis(2-chloroethyl)ether	ND		2.12	1.43		mg/kg dry	☼	67	25 - 120
Bis(2-chloroisopropyl)ether	ND		2.12	1.34		mg/kg dry	☼	63	23 - 120
2-Chloronaphthalene	ND		2.12	1.30		mg/kg dry	☼	61	39 - 120
2-Chlorophenol	ND		2.12	1.52		mg/kg dry	☼	72	28 - 120
4-Chlorophenyl phenyl ether	ND		2.12	1.38		mg/kg dry	☼	65	43 - 120
Chrysene	ND		2.12	1.38		mg/kg dry	☼	65	28 - 123
Dibenz (a,h) anthracene	ND		2.12	1.52		mg/kg dry	☼	72	25 - 127
Dibenzofuran	ND		2.12	1.43		mg/kg dry	☼	67	40 - 120
Di-n-butyl phthalate	ND		2.12	1.58		mg/kg dry	☼	74	32 - 124
1,4-Dichlorobenzene	ND		2.12	1.18		mg/kg dry	☼	56	10 - 120
1,2-Dichlorobenzene	ND		2.12	1.24		mg/kg dry	☼	58	10 - 120
1,3-Dichlorobenzene	ND		2.12	1.25		mg/kg dry	☼	59	10 - 120
3,3-Dichlorobenzidine	ND		2.12	1.53		mg/kg dry	☼	72	13 - 120
2,4-Dichlorophenol	ND		2.12	1.34		mg/kg dry	☼	63	33 - 120
Diethyl phthalate	ND		2.12	1.36		mg/kg dry	☼	64	34 - 120
2,4-Dimethylphenol	ND		2.12	1.40		mg/kg dry	☼	66	29 - 120
Dimethyl phthalate	ND		2.12	1.34		mg/kg dry	☼	63	43 - 120
4,6-Dinitro-2-methylphenol	ND		2.12	1.62		mg/kg dry	☼	77	10 - 134
2,4-Dinitrophenol	ND		2.12	1.55		mg/kg dry	☼	73	10 - 145
2,6-Dinitrotoluene	ND		2.12	1.52		mg/kg dry	☼	72	43 - 120
2,4-Dinitrotoluene	ND		2.12	1.59		mg/kg dry	☼	75	42 - 122
Di-n-octyl phthalate	ND		2.12	1.61		mg/kg dry	☼	76	34 - 135
Bis(2-ethylhexyl)phthalate	ND		2.12	1.61		mg/kg dry	☼	76	40 - 127
Fluoranthene	ND		2.12	1.51		mg/kg dry	☼	71	38 - 120
Fluorene	ND		2.12	1.45		mg/kg dry	☼	68	41 - 120
Hexachlorobenzene	ND		2.12	1.59		mg/kg dry	☼	75	44 - 120
Hexachlorobutadiene	ND		2.12	1.11		mg/kg dry	☼	52	17 - 120
Hexachlorocyclopentadiene	ND		2.12	1.13		mg/kg dry	☼	53	10 - 120
Hexachloroethane	ND		2.12	1.28		mg/kg dry	☼	60	10 - 120
Indeno (1,2,3-cd) pyrene	ND		2.12	1.51		mg/kg dry	☼	71	25 - 123
Isophorone	ND		2.12	1.36		mg/kg dry	☼	64	32 - 120
2-Methylnaphthalene	ND		2.12	1.21		mg/kg dry	☼	57	11 - 120
2-Methylphenol	ND		2.12	1.47		mg/kg dry	☼	69	41 - 120
3/4-Methylphenol	ND		2.12	1.44		mg/kg dry	☼	68	36 - 127
Naphthalene	ND		2.12	1.31		mg/kg dry	☼	62	25 - 120
3-Nitroaniline	ND		2.12	1.55		mg/kg dry	☼	73	36 - 120
2-Nitroaniline	ND		2.12	1.55		mg/kg dry	☼	73	46 - 120
4-Nitroaniline	ND		2.12	1.39		mg/kg dry	☼	65	35 - 121
Nitrobenzene	ND		2.12	1.13		mg/kg dry	☼	53	26 - 120
4-Nitrophenol	ND		2.12	1.56		mg/kg dry	☼	74	19 - 136
2-Nitrophenol	ND		2.12	1.39		mg/kg dry	☼	66	26 - 120
N-Nitrosodiphenylamine	ND		2.12	1.83		mg/kg dry	☼	86	43 - 120
N-Nitrosodi-n-propylamine	ND		2.12	1.44		mg/kg dry	☼	68	34 - 120

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3295-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3295 **Prep Batch: 11F3295_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Pentachlorophenol	ND		2.12	1.85		mg/kg dry	☼	87	15 - 135
Phenanthrene	ND		2.12	1.50		mg/kg dry	☼	71	37 - 120
Phenol	ND		2.12	1.57		mg/kg dry	☼	74	38 - 120
Pyrene	ND		2.12	1.50		mg/kg dry	☼	71	29 - 125
Pyridine	ND		2.12	1.36		mg/kg dry	☼	64	10 - 120
1,2,4-Trichlorobenzene	ND		2.12	1.08		mg/kg dry	☼	51	22 - 120
1-Methylnaphthalene	ND		2.12	1.14		mg/kg dry	☼	54	19 - 120
2,4,6-Trichlorophenol	ND		2.12	1.50		mg/kg dry	☼	71	32 - 120
2,4,5-Trichlorophenol	ND		2.12	1.41		mg/kg dry	☼	67	39 - 120

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
Terphenyl-d14	*69*		*18 - 120*
2,4,6-Tribromophenol	*68*		*19 - 120*
Phenol-d5	*62*		*18 - 120*
2-Fluorobiphenyl	*51*		*14 - 120*
2-Fluorophenol	*58*		*17 - 120*
Nitrobenzene-d5	*49*		*17 - 120*

Lab Sample ID: 11F3295-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3295 **Prep Batch: 11F3295_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		2.15	1.26		mg/kg dry	☼	59	42 - 120	4	40
Acenaphthylene	ND		2.15	1.33		mg/kg dry	☼	62	32 - 120	2	30
Anthracene	ND		2.15	1.44		mg/kg dry	☼	67	10 - 200	6	50
Benzo (a) anthracene	ND		2.15	1.41		mg/kg dry	☼	65	41 - 120	4	30
Benzo (a) pyrene	ND		2.15	1.43		mg/kg dry	☼	66	33 - 121	3	33
Benzo (b) fluoranthene	ND		2.15	1.36		mg/kg dry	☼	63	26 - 137	8	42
Benzo (g,h,i) perylene	ND		2.15	1.43		mg/kg dry	☼	67	21 - 124	5	32
Benzo (k) fluoranthene	ND		2.15	1.41		mg/kg dry	☼	66	14 - 140	3	39
4-Bromophenyl phenyl ether	ND		2.15	1.36		mg/kg dry	☼	63	39 - 120	14	31
Butyl benzyl phthalate	ND		2.15	1.62		mg/kg dry	☼	75	47 - 124	6	37
Carbazole	ND		2.15	1.37		mg/kg dry	☼	64	37 - 120	16	29
4-Chloro-3-methylphenol	ND		2.15	1.39		mg/kg dry	☼	65	38 - 120	3	34
4-Chloroaniline	ND		2.15	1.34		mg/kg dry	☼	62	20 - 120	2	43
Bis(2-chloroethoxy)methane	ND		2.15	1.25		mg/kg dry	☼	58	32 - 120	5	41
Bis(2-chloroethyl)ether	ND		2.15	1.40		mg/kg dry	☼	65	25 - 120	2	41
Bis(2-chloroisopropyl)ether	ND		2.15	1.21		mg/kg dry	☼	56	23 - 120	11	50
2-Chloronaphthalene	ND		2.15	1.18		mg/kg dry	☼	55	39 - 120	10	34
2-Chlorophenol	ND		2.15	1.50		mg/kg dry	☼	70	28 - 120	2	45
4-Chlorophenyl phenyl ether	ND		2.15	1.37		mg/kg dry	☼	64	43 - 120	1	31
Chrysene	ND		2.15	1.32		mg/kg dry	☼	61	28 - 123	5	34
Dibenz (a,h) anthracene	ND		2.15	1.45		mg/kg dry	☼	68	25 - 127	5	31
Dibenzofuran	ND		2.15	1.35		mg/kg dry	☼	63	40 - 120	6	39
Di-n-butyl phthalate	ND		2.15	1.42		mg/kg dry	☼	66	32 - 124	10	29
1,4-Dichlorobenzene	ND		2.15	1.16		mg/kg dry	☼	54	10 - 120	2	50
1,2-Dichlorobenzene	ND		2.15	1.23		mg/kg dry	☼	57	10 - 120	0.7	50
1,3-Dichlorobenzene	ND		2.15	1.15		mg/kg dry	☼	53	10 - 120	9	50

Method: SW846 8270D - Semivolatile Organic Compounds by EPA Method 8270D (Continued)

Lab Sample ID: 11F3295-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3295 **Prep Batch: 11F3295_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
3,3-Dichlorobenzidine	ND		2.15	1.44		mg/kg dry	☼	67	13 - 120	6	35
2,4-Dichlorophenol	ND		2.15	1.33		mg/kg dry	☼	62	33 - 120	1	35
Diethyl phthalate	ND		2.15	1.27		mg/kg dry	☼	59	34 - 120	7	33
2,4-Dimethylphenol	ND		2.15	1.41		mg/kg dry	☼	66	29 - 120	0.7	50
Dimethyl phthalate	ND		2.15	1.29		mg/kg dry	☼	60	43 - 120	4	31
4,6-Dinitro-2-methylphenol	ND		2.15	1.37		mg/kg dry	☼	64	10 - 134	17	50
2,4-Dinitrophenol	ND		2.15	1.39		mg/kg dry	☼	65	10 - 145	11	50
2,6-Dinitrotoluene	ND		2.15	1.42		mg/kg dry	☼	66	43 - 120	7	34
2,4-Dinitrotoluene	ND		2.15	1.44		mg/kg dry	☼	67	42 - 122	10	31
Di-n-octyl phthalate	ND		2.15	1.59		mg/kg dry	☼	74	34 - 135	0.7	31
Bis(2-ethylhexyl)phthalate	ND		2.15	1.55		mg/kg dry	☼	72	40 - 127	4	32
Fluoranthene	ND		2.15	1.38		mg/kg dry	☼	64	38 - 120	9	35
Fluorene	ND		2.15	1.41		mg/kg dry	☼	66	41 - 120	3	37
Hexachlorobenzene	ND		2.15	1.39		mg/kg dry	☼	65	44 - 120	14	28
Hexachlorobutadiene	ND		2.15	1.00		mg/kg dry	☼	47	17 - 120	10	50
Hexachlorocyclopentadiene	ND		2.15	1.03		mg/kg dry	☼	48	10 - 120	9	50
Hexachloroethane	ND		2.15	1.28		mg/kg dry	☼	59	10 - 120	0.5	50
Indeno (1,2,3-cd) pyrene	ND		2.15	1.43		mg/kg dry	☼	67	25 - 123	6	32
Isophorone	ND		2.15	1.30		mg/kg dry	☼	60	32 - 120	5	36
2-Methylnaphthalene	ND		2.15	1.17		mg/kg dry	☼	54	11 - 120	3	50
2-Methylphenol	ND		2.15	1.33		mg/kg dry	☼	62	41 - 120	10	41
3/4-Methylphenol	ND		2.15	1.43		mg/kg dry	☼	67	36 - 127	0.4	39
Naphthalene	ND		2.15	1.28		mg/kg dry	☼	60	25 - 120	2	42
3-Nitroaniline	ND		2.15	1.44		mg/kg dry	☼	67	36 - 120	7	35
2-Nitroaniline	ND		2.15	1.44		mg/kg dry	☼	67	46 - 120	7	28
4-Nitroaniline	ND		2.15	1.34		mg/kg dry	☼	62	35 - 121	4	36
Nitrobenzene	ND		2.15	1.06		mg/kg dry	☼	49	26 - 120	6	44
4-Nitrophenol	ND		2.15	1.46		mg/kg dry	☼	68	19 - 136	7	47
2-Nitrophenol	ND		2.15	1.36		mg/kg dry	☼	63	26 - 120	2	43
N-Nitrosodiphenylamine	ND		2.15	1.55		mg/kg dry	☼	72	43 - 120	16	30
N-Nitrosodi-n-propylamine	ND		2.15	1.41		mg/kg dry	☼	66	34 - 120	2	41
Pentachlorophenol	ND		2.15	1.58		mg/kg dry	☼	73	15 - 135	16	32
Phenanthrene	ND		2.15	1.39		mg/kg dry	☼	64	37 - 120	8	32
Phenol	ND		2.15	1.45		mg/kg dry	☼	67	38 - 120	8	42
Pyrene	ND		2.15	1.38		mg/kg dry	☼	64	29 - 125	9	40
Pyridine	ND		2.15	1.37		mg/kg dry	☼	64	10 - 120	0.7	50
1,2,4-Trichlorobenzene	ND		2.15	1.02		mg/kg dry	☼	48	22 - 120	5	46
1-Methylnaphthalene	ND		2.15	1.07		mg/kg dry	☼	50	19 - 120	6	45
2,4,6-Trichlorophenol	ND		2.15	1.42		mg/kg dry	☼	66	32 - 120	5	34
2,4,5-Trichlorophenol	ND		2.15	1.33		mg/kg dry	☼	62	39 - 120	6	33

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Terphenyl-d14	*67*		*18 - 120*
2,4,6-Tribromophenol	*59*		*19 - 120*
Phenol-d5	*57*		*18 - 120*
2-Fluorobiphenyl	*49*		*14 - 120*
2-Fluorophenol	*52*		*17 - 120*
Nitrobenzene-d5	*45*		*17 - 120*

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Lab Sample ID: 11F3296-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010796 **Prep Batch: 11F3296_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		4.00		mg/kg wet		06/16/11 09:40	06/18/11 04:20	1.00
TPH - Oil Range	ND		4.00		mg/kg wet		06/16/11 09:40	06/18/11 04:20	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*115*		*53 - 140*	*06/16/11 09:40*	*06/18/11 04:20*	*1.00*

Lab Sample ID: 11F3296-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010796 **Prep Batch: 11F3296_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Diesel			40.0	37.4		mg/kg wet		93	65 - 127		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*119*		*53 - 140*

Lab Sample ID: 11F3296-MS1 **Client Sample ID: F-02(3')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010796 **Prep Batch: 11F3296_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Diesel	18.6		50.8	68.1		mg/kg dry	☼	98	23 - 138		

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
o-Terphenyl	*86*		*53 - 140*

Lab Sample ID: 11F3296-MSD1 **Client Sample ID: F-02(3')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010796 **Prep Batch: 11F3296_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diesel	18.6		49.7	47.9		mg/kg dry	☼	59	23 - 138	35	40

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
o-Terphenyl	*107*		*53 - 140*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Lab Sample ID: 11F3292-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010417 **Prep Batch: 11F3292_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0333		mg/kg wet		06/14/11 07:15	06/14/11 15:07	1.00
PCB-1221	ND		0.0333		mg/kg wet		06/14/11 07:15	06/14/11 15:07	1.00
PCB-1232	ND		0.0333		mg/kg wet		06/14/11 07:15	06/14/11 15:07	1.00
PCB-1242	ND		0.0333		mg/kg wet		06/14/11 07:15	06/14/11 15:07	1.00
PCB-1248	ND		0.0333		mg/kg wet		06/14/11 07:15	06/14/11 15:07	1.00

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A (Continued)

Lab Sample ID: 11F3292-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010417 **Prep Batch: 11F3292_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		0.0333		mg/kg wet		06/14/11 07:15	06/14/11 15:07	1.00
PCB-1260	ND		0.0333		mg/kg wet		06/14/11 07:15	06/14/11 15:07	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*98*		*19 - 147*	*06/14/11 07:15*	*06/14/11 15:07*	*1.00*
Decachlorobiphenyl	*114*		*20 - 150*	*06/14/11 07:15*	*06/14/11 15:07*	*1.00*

Lab Sample ID: 11F3292-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010417 **Prep Batch: 11F3292_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
PCB-1016			0.167	0.178		mg/kg wet		107	64 - 122		
PCB-1260			0.167	0.176		mg/kg wet		106	56 - 150		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-meta-xylene	*102*		*19 - 147*
Decachlorobiphenyl	*120*		*20 - 150*

Lab Sample ID: 11F3292-MS1 **Client Sample ID: F-04C(5-6')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010417 **Prep Batch: 11F3292_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
PCB-1016	ND		0.202	0.218		mg/kg dry	☼	108	20 - 175		
PCB-1260	ND		0.202	0.212		mg/kg dry	☼	105	51 - 159		

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
Tetrachloro-meta-xylene	*84*		*19 - 147*
Decachlorobiphenyl	*112*		*20 - 150*

Lab Sample ID: 11F3292-MSD1 **Client Sample ID: F-04C(5-6')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: U010417 **Prep Batch: 11F3292_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
PCB-1016	ND		0.206	0.240		mg/kg dry	☼	116	20 - 175	10	50
PCB-1260	ND		0.206	0.205		mg/kg dry	☼	99	51 - 159	4	36

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Tetrachloro-meta-xylene	*66*		*19 - 147*
Decachlorobiphenyl	*100*		*20 - 150*

Method: SW846 6010B - Total Metals by EPA Method 6010B

Lab Sample ID: 11F3697-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3697 **Prep Batch: 11F3697_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.954		mg/kg wet		06/15/11 07:00	06/16/11 15:05	1.00
Barium	ND		1.91		mg/kg wet		06/15/11 07:00	06/16/11 15:05	1.00
Cadmium	ND		0.954		mg/kg wet		06/15/11 07:00	06/16/11 15:05	1.00
Chromium	ND		0.954		mg/kg wet		06/15/11 07:00	06/16/11 15:05	1.00
Lead	ND		0.954		mg/kg wet		06/15/11 07:00	06/16/11 15:05	1.00
Selenium	ND		1.91		mg/kg wet		06/15/11 07:00	06/16/11 15:05	1.00
Silver	ND		0.954		mg/kg wet		06/15/11 07:00	06/16/11 15:05	1.00

Lab Sample ID: 11F3697-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3697 **Prep Batch: 11F3697_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	19.9	19.9		mg/kg wet		100	80 - 120
Barium	795	838		mg/kg wet		105	80 - 120
Cadmium	19.9	21.0		mg/kg wet		106	80 - 120
Chromium	79.5	84.1		mg/kg wet		106	80 - 120
Lead	19.9	21.4		mg/kg wet		108	80 - 120
Selenium	19.9	20.6		mg/kg wet		103	80 - 120
Silver	19.9	20.4		mg/kg wet		102	75 - 125

Lab Sample ID: 11F3697-MS1 **Client Sample ID: F-02(3')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3697 **Prep Batch: 11F3697_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	6.41		25.6	30.2		mg/kg dry	☼	93	75 - 125
Barium	198		1020	1210		mg/kg dry	☼	99	75 - 125
Cadmium	ND		25.6	23.5		mg/kg dry	☼	92	75 - 125
Chromium	19.2		102	121		mg/kg dry	☼	100	75 - 125
Lead	391	M8	25.6	39.7	M8	mg/kg dry	☼	-1370	75 - 125
Selenium	ND		25.6	23.9		mg/kg dry	☼	93	75 - 125
Silver	ND		25.6	23.8		mg/kg dry	☼	93	75 - 125

Lab Sample ID: 11F3697-MSD1 **Client Sample ID: F-02(3')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3697 **Prep Batch: 11F3697_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	6.41		25.5	28.2		mg/kg dry	☼	85	75 - 125	7	20
Barium	198		1020	1110		mg/kg dry	☼	90	75 - 125	8	20
Cadmium	ND		25.5	22.1		mg/kg dry	☼	87	75 - 125	6	20
Chromium	19.2		102	116		mg/kg dry	☼	95	75 - 125	4	20
Lead	391	M8	25.5	40.6	M8	mg/kg dry	☼	-1380	75 - 125	2	20
Selenium	ND		25.5	22.5		mg/kg dry	☼	88	75 - 125	6	20
Silver	ND		25.5	22.5		mg/kg dry	☼	88	75 - 125	6	20

Method: SW846 7471A - Mercury by EPA Methods 7470A/7471A

Lab Sample ID: 11F3315-BLK1 **Client Sample ID: Method Blank**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3315 **Prep Batch: 11F3315_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.097		mg/kg wet		06/15/11 08:55	06/15/11 13:06	1.0

Lab Sample ID: 11F3315-BS1 **Client Sample ID: Lab Control Sample**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3315 **Prep Batch: 11F3315_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury			0.165	0.16		mg/kg wet		96	80 - 120		

Lab Sample ID: 11F3315-BSD1 **Client Sample ID: Lab Control Sample Dup**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3315 **Prep Batch: 11F3315_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury			0.167	0.16		mg/kg wet		96	80 - 120	1	20

Lab Sample ID: 11F3315-MS1 **Client Sample ID: Matrix Spike**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3315 **Prep Batch: 11F3315_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury	0.012		0.188	0.20		mg/kg dry	☼	99	75 - 125		

Lab Sample ID: 11F3315-MSD1 **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F3315 **Prep Batch: 11F3315_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.012		0.182	0.19		mg/kg dry	☼	100	75 - 125	2	20

Method: SW-846 - General Chemistry Parameters

Lab Sample ID: 11F4480-DUP1 **Client Sample ID: F-04C(5-6')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F4480 **Prep Batch: 11F4480_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Dry Solids	79.9			80.0		%				0.1	20

Lab Sample ID: 11F4481-DUP1 **Client Sample ID: F-02(3')**
Matrix: Soil **Prep Type: Total**
Analysis Batch: 11F4481 **Prep Batch: 11F4481_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Dry Solids	78.3			78.7		%				0.5	20

GCMS Volatiles

Analysis Batch: U010814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4528-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11F4528_P
11F4528-BSD1	Lab Control Sample Dup	Total	Soil	SW846 8260B	11F4528_P
11F4528-BLK1	Method Blank	Total	Soil	SW846 8260B	11F4528_P
11F4528-BLK2	Method Blank	Total	Soil	SW846 8260B	11F4528_P
NUF1960-06	F-03C(5-6)	Total	Soil	SW846 8260B	11F4528_P
NUF1960-01	F-02(3')	Total	Soil	SW846 8260B	11F4528_P
NUF1960-02	F-02(5-6')	Total	Soil	SW846 8260B	11F4528_P
NUF1960-03	F-04C(5-6')	Total	Soil	SW846 8260B	11F4528_P
NUF1960-04	F-04C(12-13')	Total	Soil	SW846 8260B	11F4528_P
11F4528-MS1	Matrix Spike	Total	Soil	SW846 8260B	11F4528_P
11F4528-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8260B	11F4528_P

Analysis Batch: U010835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4890-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11F4890_P
11F4890-BLK1	Method Blank	Total	Soil	SW846 8260B	11F4890_P
11F4890-BLK2	Method Blank	Total	Soil	SW846 8260B	11F4890_P
NUF1960-05 - RE1	F-03B(0-1)	Total	Soil	SW846 8260B	11F4890_P
NUF1960-05 - RE2	F-03B(0-1)	Total	Soil	SW846 8260B	11F4890_P
11F4890-MS1	Matrix Spike	Total	Soil	SW846 8260B	11F4890_P
11F4890-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8260B	11F4890_P

Prep Batch: 11F4528_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4528-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11F4528-BSD1	Lab Control Sample Dup	Total	Soil	EPA 5035	
11F4528-BLK1	Method Blank	Total	Soil	EPA 5035	
11F4528-BLK2	Method Blank	Total	Soil	EPA 5035	
NUF1960-06	F-03C(5-6)	Total	Soil	EPA 5035	
NUF1960-01	F-02(3')	Total	Soil	EPA 5035	
NUF1960-02	F-02(5-6')	Total	Soil	EPA 5035	
NUF1960-03	F-04C(5-6')	Total	Soil	EPA 5035	
NUF1960-04	F-04C(12-13')	Total	Soil	EPA 5035	
11F4528-MS1	Matrix Spike	Total	Soil	EPA 5035	
11F4528-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 5035	

Prep Batch: 11F4890_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4890-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11F4890-BLK1	Method Blank	Total	Soil	EPA 5035	
11F4890-BLK2	Method Blank	Total	Soil	EPA 5035	
NUF1960-05 - RE1	F-03B(0-1)	Total	Soil	EPA 5035	
NUF1960-05 - RE2	F-03B(0-1)	Total	Soil	EPA 5035	
11F4890-MS1	Matrix Spike	Total	Soil	EPA 5035	
11F4890-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 5035	

GCMS Semivolatiles

Analysis Batch: 11F3295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3295-BLK1	Method Blank	Total	Soil	SW846 8270D	11F3295_P
11F3295-BS1	Lab Control Sample	Total	Soil	SW846 8270D	11F3295_P

GCMS Semivolatiles (Continued)

Analysis Batch: 11F3295 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3295-MS1	Matrix Spike	Total	Soil	SW846 8270D	11F3295_P
11F3295-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8270D	11F3295_P
NUF1960-01	F-02(3')	Total	Soil	SW846 8270D	11F3295_P
NUF1960-02	F-02(5-6')	Total	Soil	SW846 8270D	11F3295_P
NUF1960-03	F-04C(5-6')	Total	Soil	SW846 8270D	11F3295_P
NUF1960-04	F-04C(12-13')	Total	Soil	SW846 8270D	11F3295_P
NUF1960-05	F-03B(0-1)	Total	Soil	SW846 8270D	11F3295_P
NUF1960-06	F-03C(5-6)	Total	Soil	SW846 8270D	11F3295_P

Prep Batch: 11F3295_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3295-BLK1	Method Blank	Total	Soil	EPA 3550C	
11F3295-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
11F3295-MS1	Matrix Spike	Total	Soil	EPA 3550C	
11F3295-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 3550C	
NUF1960-01	F-02(3')	Total	Soil	EPA 3550C	
NUF1960-02	F-02(5-6')	Total	Soil	EPA 3550C	
NUF1960-03	F-04C(5-6')	Total	Soil	EPA 3550C	
NUF1960-04	F-04C(12-13')	Total	Soil	EPA 3550C	
NUF1960-05	F-03B(0-1)	Total	Soil	EPA 3550C	
NUF1960-06	F-03C(5-6)	Total	Soil	EPA 3550C	

GC Semivolatiles

Analysis Batch: U010796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3296-BLK1	Method Blank	Total	Soil	SW846 8015B	11F3296_P
11F3296-BS1	Lab Control Sample	Total	Soil	SW846 8015B	11F3296_P
11F3296-MS1	F-02(3')	Total	Soil	SW846 8015B	11F3296_P
11F3296-MSD1	F-02(3')	Total	Soil	SW846 8015B	11F3296_P
NUF1960-01	F-02(3')	Total	Soil	SW846 8015B	11F3296_P
NUF1960-02	F-02(5-6')	Total	Soil	SW846 8015B	11F3296_P
NUF1960-03	F-04C(5-6')	Total	Soil	SW846 8015B	11F3296_P
NUF1960-04	F-04C(12-13')	Total	Soil	SW846 8015B	11F3296_P
NUF1960-06	F-03C(5-6)	Total	Soil	SW846 8015B	11F3296_P
NUF1960-06 - RE1	F-03C(5-6)	Total	Soil	SW846 8015B	11F3296_P
NUF1960-05 - RE1	F-03B(0-1)	Total	Soil	SW846 8015B	11F3296_P

Prep Batch: 11F3296_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3296-BLK1	Method Blank	Total	Soil	EPA 3550C	
11F3296-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
11F3296-MS1	F-02(3')	Total	Soil	EPA 3550C	
11F3296-MSD1	F-02(3')	Total	Soil	EPA 3550C	
NUF1960-01	F-02(3')	Total	Soil	EPA 3550C	
NUF1960-02	F-02(5-6')	Total	Soil	EPA 3550C	
NUF1960-03	F-04C(5-6')	Total	Soil	EPA 3550C	
NUF1960-04	F-04C(12-13')	Total	Soil	EPA 3550C	
NUF1960-06	F-03C(5-6)	Total	Soil	EPA 3550C	
NUF1960-06 - RE1	F-03C(5-6)	Total	Soil	EPA 3550C	
NUF1960-05 - RE1	F-03B(0-1)	Total	Soil	EPA 3550C	

Pesticides

Analysis Batch: U010417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3292-BLK1	Method Blank	Total	Soil	SW846 8082A	11F3292_P
11F3292-BS1	Lab Control Sample	Total	Soil	SW846 8082A	11F3292_P
11F3292-MS1	F-04C(5-6')	Total	Soil	SW846 8082A	11F3292_P
11F3292-MSD1	F-04C(5-6')	Total	Soil	SW846 8082A	11F3292_P
NUF1960-03	F-04C(5-6')	Total	Soil	SW846 8082A	11F3292_P
NUF1960-02	F-02(5-6')	Total	Soil	SW846 8082A	11F3292_P
NUF1960-04	F-04C(12-13')	Total	Soil	SW846 8082A	11F3292_P
NUF1960-05 - RE1	F-03B(0-1)	Total	Soil	SW846 8082A	11F3292_P
NUF1960-06	F-03C(5-6)	Total	Soil	SW846 8082A	11F3292_P
NUF1960-01	F-02(3')	Total	Soil	SW846 8082A	11F3292_P

Prep Batch: 11F3292_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3292-BLK1	Method Blank	Total	Soil	EPA 3550C/3665A	
11F3292-BS1	Lab Control Sample	Total	Soil	EPA 3550C/3665A	
11F3292-MS1	F-04C(5-6')	Total	Soil	EPA 3550C/3665A	
11F3292-MSD1	F-04C(5-6')	Total	Soil	EPA 3550C/3665A	
NUF1960-03	F-04C(5-6')	Total	Soil	EPA 3550C/3665A	
NUF1960-02	F-02(5-6')	Total	Soil	EPA 3550C/3665A	
NUF1960-04	F-04C(12-13')	Total	Soil	EPA 3550C/3665A	
NUF1960-05 - RE1	F-03B(0-1)	Total	Soil	EPA 3550C/3665A	
NUF1960-06	F-03C(5-6)	Total	Soil	EPA 3550C/3665A	
NUF1960-01	F-02(3')	Total	Soil	EPA 3550C/3665A	

Metals

Analysis Batch: 11F3315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3315-BLK1	Method Blank	Total	Soil	SW846 7471A	11F3315_P
11F3315-BS1	Lab Control Sample	Total	Soil	SW846 7471A	11F3315_P
11F3315-BSD1	Lab Control Sample Dup	Total	Soil	SW846 7471A	11F3315_P
11F3315-MS1	Matrix Spike	Total	Soil	SW846 7471A	11F3315_P
11F3315-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 7471A	11F3315_P
NUF1960-01	F-02(3')	Total	Soil	SW846 7471A	11F3315_P
NUF1960-02	F-02(5-6')	Total	Soil	SW846 7471A	11F3315_P
NUF1960-03	F-04C(5-6')	Total	Soil	SW846 7471A	11F3315_P
NUF1960-04	F-04C(12-13')	Total	Soil	SW846 7471A	11F3315_P
NUF1960-05	F-03B(0-1)	Total	Soil	SW846 7471A	11F3315_P
NUF1960-06	F-03C(5-6)	Total	Soil	SW846 7471A	11F3315_P

Analysis Batch: 11F3697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3697-BLK1	Method Blank	Total	Soil	SW846 6010B	11F3697_P
11F3697-BS1	Lab Control Sample	Total	Soil	SW846 6010B	11F3697_P
NUF1960-01	F-02(3')	Total	Soil	SW846 6010B	11F3697_P
11F3697-MS1	F-02(3')	Total	Soil	SW846 6010B	11F3697_P
11F3697-MSD1	F-02(3')	Total	Soil	SW846 6010B	11F3697_P

Metals (Continued)

Analysis Batch: 11F3697 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUF1960-02	F-02(5-6')	Total	Soil	SW846 6010B	11F3697_P
NUF1960-03	F-04C(5-6')	Total	Soil	SW846 6010B	11F3697_P
NUF1960-04	F-04C(12-13')	Total	Soil	SW846 6010B	11F3697_P
NUF1960-05	F-03B(0-1)	Total	Soil	SW846 6010B	11F3697_P
NUF1960-06	F-03C(5-6)	Total	Soil	SW846 6010B	11F3697_P
NUF1960-05	F-03B(0-1)	Total	Soil	SW846 6010B	11F3697_P

Prep Batch: 11F3315_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3315-BLK1	Method Blank	Total	Soil	EPA 7471	
11F3315-BS1	Lab Control Sample	Total	Soil	EPA 7471	
11F3315-BSD1	Lab Control Sample Dup	Total	Soil	EPA 7471	
11F3315-MS1	Matrix Spike	Total	Soil	EPA 7471	
11F3315-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 7471	
NUF1960-01	F-02(3')	Total	Soil	EPA 7471	
NUF1960-02	F-02(5-6')	Total	Soil	EPA 7471	
NUF1960-03	F-04C(5-6')	Total	Soil	EPA 7471	
NUF1960-04	F-04C(12-13')	Total	Soil	EPA 7471	
NUF1960-05	F-03B(0-1)	Total	Soil	EPA 7471	
NUF1960-06	F-03C(5-6)	Total	Soil	EPA 7471	

Prep Batch: 11F3697_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F3697-BLK1	Method Blank	Total	Soil	EPA 3051A/6010	
11F3697-BS1	Lab Control Sample	Total	Soil	EPA 3051A/6010	
NUF1960-01	F-02(3')	Total	Soil	EPA 3051A/6010	
11F3697-MS1	F-02(3')	Total	Soil	EPA 3051A/6010	
11F3697-MSD1	F-02(3')	Total	Soil	EPA 3051A/6010	
NUF1960-02	F-02(5-6')	Total	Soil	EPA 3051A/6010	
NUF1960-03	F-04C(5-6')	Total	Soil	EPA 3051A/6010	
NUF1960-04	F-04C(12-13')	Total	Soil	EPA 3051A/6010	
NUF1960-05	F-03B(0-1)	Total	Soil	EPA 3051A/6010	
NUF1960-06	F-03C(5-6)	Total	Soil	EPA 3051A/6010	
NUF1960-05	F-03B(0-1)	Total	Soil	EPA 3051A/6010	

Extractions

Analysis Batch: 11F4480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4480-DUP1	F-04C(5-6')	Total	Soil	SW-846	11F4480_P
NUF1960-03	F-04C(5-6')	Total	Soil	SW-846	11F4480_P
NUF1960-04	F-04C(12-13')	Total	Soil	SW-846	11F4480_P
NUF1960-05	F-03B(0-1)	Total	Soil	SW-846	11F4480_P
NUF1960-06	F-03C(5-6)	Total	Soil	SW-846	11F4480_P

Extractions (Continued)

Analysis Batch: 11F4481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4481-DUP1	F-02(3')	Total	Soil	SW-846	11F4481_P
NUF1960-01	F-02(3')	Total	Soil	SW-846	11F4481_P
NUF1960-02	F-02(5-6')	Total	Soil	SW-846	11F4481_P

Prep Batch: 11F4480_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4480-DUP1	F-04C(5-6')	Total	Soil	% Solids	
NUF1960-03	F-04C(5-6')	Total	Soil	% Solids	
NUF1960-04	F-04C(12-13')	Total	Soil	% Solids	
NUF1960-05	F-03B(0-1)	Total	Soil	% Solids	
NUF1960-06	F-03C(5-6)	Total	Soil	% Solids	

Prep Batch: 11F4481_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11F4481-DUP1	F-02(3')	Total	Soil	% Solids	
NUF1960-01	F-02(3')	Total	Soil	% Solids	
NUF1960-02	F-02(5-6')	Total	Soil	% Solids	

Client Sample ID: F-02(3')

Lab Sample ID: NUF1960-01
Date Collected: 06/10/11 08:15
Matrix: Soil
Date Received: 06/11/11 09:00
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.891	11F4528_P	06/16/11 08:20	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010814	06/17/11 18:51	KXC	TAL NSH
Total	Prep	EPA 3550C		0.972	11F3295_P	06/17/11 09:00	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3295	06/18/11 12:21	JLS	TAL NSH
Total	Prep	EPA 3550C		0.980	11F3296_P	06/16/11 09:40	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010796	06/18/11 05:56	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.986	11F3292_P	06/14/11 07:15	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010417	06/15/11 22:36	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.988	11F3697_P	06/15/11 07:00	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3697	06/16/11 15:11	LTB	TAL NSH
Total	Prep	EPA 7471		0.97	11F3315_P	06/15/11 08:55	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3315	06/15/11 13:38	MB	TAL NSH
Total	Prep	% Solids		1.00	11F4481_P	06/17/11 16:20	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11F4481	06/20/11 09:31	RRS	TAL NSH

Client Sample ID: F-02(5-6')

Lab Sample ID: NUF1960-02
Date Collected: 06/10/11 08:00
Matrix: Soil
Date Received: 06/11/11 09:00
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.882	11F4528_P	06/16/11 08:23	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010814	06/17/11 19:20	KXC	TAL NSH
Total	Prep	EPA 3550C		0.976	11F3295_P	06/17/11 09:00	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3295	06/18/11 12:45	JLS	TAL NSH
Total	Prep	EPA 3550C		0.975	11F3296_P	06/16/11 09:40	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010796	06/18/11 06:20	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.968	11F3292_P	06/14/11 07:15	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010417	06/14/11 23:25	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.998	11F3697_P	06/15/11 07:00	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3697	06/16/11 15:20	LTB	TAL NSH
Total	Prep	EPA 7471		0.96	11F3315_P	06/15/11 08:55	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3315	06/15/11 13:40	MB	TAL NSH
Total	Prep	% Solids		1.00	11F4481_P	06/17/11 16:20	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11F4481	06/20/11 09:31	RRS	TAL NSH

Client Sample ID: F-04C(5-6')

Lab Sample ID: NUF1960-03
Date Collected: 06/10/11 10:00
Matrix: Soil
Date Received: 06/11/11 09:00
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.933	11F4528_P	06/16/11 08:26	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010814	06/17/11 19:50	KXC	TAL NSH
Total	Prep	EPA 3550C		0.980	11F3295_P	06/17/11 09:00	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3295	06/18/11 13:09	JLS	TAL NSH
Total	Prep	EPA 3550C		0.983	11F3296_P	06/16/11 09:40	JJR	TAL NSH

Client Sample ID: F-04C(5-6')

Lab Sample ID: NUF1960-03
Date Collected: 06/10/11 10:00
Matrix: Soil
Date Received: 06/11/11 09:00
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Analysis	SW846 8015B		1.00	U010796	06/18/11 06:44	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.975	11F3292_P	06/14/11 07:15	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010417	06/14/11 16:33	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.988	11F3697_P	06/15/11 07:00	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3697	06/16/11 15:34	LTB	TAL NSH
Total	Prep	EPA 7471		0.96	11F3315_P	06/15/11 08:55	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3315	06/15/11 13:43	MB	TAL NSH
Total	Prep	% Solids		1.00	11F4480_P	06/17/11 11:56	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11F4480	06/17/11 14:23	AMS	TAL NSH

Client Sample ID: F-04C(12-13')

Lab Sample ID: NUF1960-04
Date Collected: 06/10/11 10:15
Matrix: Soil
Date Received: 06/11/11 09:00
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.917	11F4528_P	06/16/11 08:29	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010814	06/17/11 20:20	KXC	TAL NSH
Total	Prep	EPA 3550C		0.984	11F3295_P	06/17/11 09:00	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3295	06/18/11 13:34	JLS	TAL NSH
Total	Prep	EPA 3550C		0.983	11F3296_P	06/16/11 09:40	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010796	06/18/11 07:08	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.974	11F3292_P	06/14/11 07:15	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010417	06/14/11 23:46	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.962	11F3697_P	06/15/11 07:00	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3697	06/16/11 15:37	LTB	TAL NSH
Total	Prep	EPA 7471		0.96	11F3315_P	06/15/11 08:55	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3315	06/15/11 13:45	MB	TAL NSH
Total	Prep	% Solids		1.00	11F4480_P	06/17/11 11:56	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11F4480	06/17/11 14:23	AMS	TAL NSH

Client Sample ID: F-03B(0-1)

Lab Sample ID: NUF1960-05
Date Collected: 06/10/11 10:35
Matrix: Soil
Date Received: 06/11/11 09:00
Percent Solids: 65.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035	RE1	0.923	11F4890_P	06/16/11 08:32	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U010835	06/19/11 12:57	KXC	TAL NSH
Total	Prep	EPA 5035	RE2	0.917	11F4890_P	06/16/11 08:32	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE2	50.0	U010835	06/19/11 13:27	KXC	TAL NSH
Total	Prep	EPA 3550C		0.975	11F3295_P	06/17/11 09:00	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3295	06/18/11 13:58	JLS	TAL NSH
Total	Prep	EPA 3550C	RE1	1.00	11F3296_P	06/16/11 09:40	JJR	TAL NSH
Total	Analysis	SW846 8015B	RE1	20.0	U010796	06/18/11 19:58	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A	RE1	0.974	11F3292_P	06/14/11 07:15	JJR	TAL NSH
Total	Analysis	SW846 8082A	RE1	5.00	U010417	06/15/11 13:57	RMC	TAL NSH

Client Sample ID: F-03B(0-1)

Lab Sample ID: NUF1960-05
Date Collected: 06/10/11 10:35
Matrix: Soil
Date Received: 06/11/11 09:00
Percent Solids: 65.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3051A/6010		0.992	11F3697_P	06/15/11 07:00	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3697	06/16/11 15:41	LTB	TAL NSH
Total	Analysis	SW846 6010B		10.0	11F3697	06/17/11 09:32	LTB	TAL NSH
Total	Prep	EPA 7471		0.98	11F3315_P	06/15/11 08:55	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3315	06/15/11 13:48	MB	TAL NSH
Total	Prep	% Solids		1.00	11F4480_P	06/17/11 11:56	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11F4480	06/17/11 14:23	AMS	TAL NSH

Client Sample ID: F-03C(5-6)

Lab Sample ID: NUF1960-06
Date Collected: 06/10/11 11:05
Matrix: Soil
Date Received: 06/11/11 09:00
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.876	11F4528_P	06/16/11 08:33	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U010814	06/17/11 18:21	KXC	TAL NSH
Total	Prep	EPA 3550C		0.997	11F3295_P	06/17/11 09:00	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11F3295	06/18/11 14:22	JLS	TAL NSH
Total	Prep	EPA 3550C		0.994	11F3296_P	06/16/11 09:40	JJR	TAL NSH
Total	Analysis	SW846 8015B		1.00	U010796	06/18/11 10:44	GMH	TAL NSH
Total	Prep	EPA 3550C	RE1	0.994	11F3296_P	06/16/11 09:40	JJR	TAL NSH
Total	Analysis	SW846 8015B	RE1	2.00	U010796	06/18/11 19:34	GMH	TAL NSH
Total	Prep	EPA 3550C/3665A		0.973	11F3292_P	06/14/11 07:15	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U010417	06/15/11 21:31	RMC	TAL NSH
Total	Prep	EPA 3051A/6010		0.992	11F3697_P	06/15/11 07:00	RSO	TAL NSH
Total	Analysis	SW846 6010B		1.00	11F3697	06/16/11 15:44	LTB	TAL NSH
Total	Prep	EPA 7471		0.97	11F3315_P	06/15/11 08:55	MB	TAL NSH
Total	Analysis	SW846 7471A		1.0	11F3315	06/15/11 13:50	MB	TAL NSH
Total	Prep	% Solids		1.00	11F4480_P	06/17/11 11:56	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11F4480	06/17/11 14:23	AMS	TAL NSH

Laboratory References:
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1960

Method	Method Description	Protocol	Laboratory
SW-846	General Chemistry Parameters		TAL NSH
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
SW846 8270D	Semivolatile Organic Compounds by EPA Method 8270D		TAL NSH
SW846 8015B	Extractable Petroleum Hydrocarbons		TAL NSH
SW846 8082A	Polychlorinated Biphenyls by EPA Method 8082A		TAL NSH
SW846 6010B	Total Metals by EPA Method 6010B		TAL NSH
SW846 7471A	Mercury by EPA Methods 7470A/7471A		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: PSC Industrial Outsourcing LP (3797)
Project/Site: [none]

TestAmerica Job ID: NUF1960

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RE

NUF1960

Cooler Received/Opened On 6/11/2011 @ 09:00

1. Tracking # 0100 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 96210146

2. Temperature of rep. sample or temp blank when opened: 3.1 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: N/A tape intact

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) GB

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial)

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial)

I certify that I attached a label with the unique LIMS number to each container (intial)

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

06/21/2011

NUF1960
06/22/11 23:59
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404

',"Reg District (CA)")

Page 1 of 1

Client: PSC Industrial Outsourcing LP (3797)
Address: 210 West Sand Bank Rd.
City, State, Zip: Columbia IL 62236
Client Invoice Contact: Al Becker
Client Project Mgr: Al Becker
Client Telephone#: (618) 281-1550 Fax: (618) 281-7020
Sampler Name (Print) John Carrow
SamplerSignature: John R. Carrow

TA Account #: 3797 PO #:
Invoice to: PSC Industrial Outsourcing LP (3797)
Report to: Al Becker
Project Name: Festus, Missouri
Facility ID: [none]
Reg District (CA):
Site Address: 9th and Delmar
City,State,Zip: Festus Missouri

Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: 8082A PCBs	8260B Volatile Organics	8270D Semivolatile Organics	Metals, RCRA Solid ICP 6010B	Metals, RCRA Water ICP 6010B	Metals, TCLP 6010B	TCLP Extraction Metals	TCLP Standard Extraction	TPH - Diesel Range/Oil Range SW8	TPH-Gasoline Range SW8015							RUSH TAT (Pre Schedule)*
F-02 (3')	6/10/11	8:15	3	X										X					X		X	X	X	X					X		-	01						
F-02 (5-6')	6/10/11	8:00	3	X										X					X		X	X	X	X					X		-	02						
F-04C (5-6)	6/10/11	10:00	3	X										X					X		X	X	X	X					X		-	03						
F-04C (12-13)	6/10/11	10:15	3	X										X					X		X	X	X	X					X		-	04						
F-03B (0-1)	6/10/11	10:35	3	X										X					X		X	X	X	X					X		-	05						
F-03C (5-6)	6/10/11	11:05	3	X										X					X		X	X	X	X					X		-	06						

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.

* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.

There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES/SPECIAL INSTRUCTIONS: BO # 25017
Email JCarrow@PSXnow.com
with Questions or call 618-792-2468

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
John Carrow	6/10/11	1500						
Shipped Via:			Shipped Via:					
Received for TestAmerica by:	Date: 6/10/11	Time: 0900	Temperature Upon Receipt: 3.1	Sample Containers Intact? Y N VOCs Free of Headspace? Y N		QC Deliverables (Please Circle One): Level 2 Level 3 Level 4 Site Specific (If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)		Date Due of Report:

APPENDIX D

Liability-Based Asbestos Report

June 28, 2011
624-1104-0030

Mr. Steve Forystek
PSC Metals
5875 Landerbrook Drive, Suite 200
Mayfield Heights, Ohio 44124

Subject: **Liability-Based Asbestos Report**
Shapiro Brothers, Incorporated
Festus, Missouri

Dear Mr. Forystek:

PSC Industrial Outsourcing, LP (PSC) is pleased to submit this liability-based asbestos report for PSC Metals for the following subject property parcels that contain structures:

- Office and Scale Building
  - Masonry and wood construction with concrete floors in the basement, and 3 tab fiberglass and asphalt shingled roof. Building burnt down and was rebuilt in 1974 and then remodeled and expanded in 1989. PSC did not find any suspect materials and no samples were collected.
- Non-Ferrous Warehouse
  - Concrete masonry block and Sheet metal, and wood construction with concrete floors, and a sheet metal roof. A previous sample of window glazing was collected by the owner and found to contain asbestos. PSC did not find any other suspect materials. One (1) sample was collected of suspect materials located throughout the building. Sampled materials included drywall, flooring (floor tile and sheet flooring), and ceiling tile. Analysis showed no materials sampled to be positive for asbestos.
- Maintenance Building
  - Concrete masonry block, wood truss, and plywood ceilings with concrete floors. No samples collected, and no suspect or assumed ACM noted.
- Shear Building
  - Sheet metal construction with concrete floor. Masonite ceiling panels, no samples collected, and no suspect or assumed ACM noted.
- Shredder Building
  - Concrete masonry block, sheet metal construction with concrete floor. No samples collected, and no suspect or assumed ACM noted.
- Baler Building
  - Concrete masonry block, sheet metal construction with concrete floor. No samples collected, and no suspect or assumed ACM noted.

PSC Industrial Outsourcing, LP (PSC) was retained by PSC Metals to perform a liability-based asbestos survey of suspect materials from the properties listed above located in Festus, Missouri. Activities conducted at the facilities included identification and bulk sampling of those suspect building materials in which the Missouri licensed Asbestos Inspector identified as having the potential of containing asbestos.

A single bulk sample of each building material suspected of containing asbestos was collected on June 6, 2011. PSC collected a total of 5 bulk samples from the 1920 structure. The suspect materials sampled included acoustical ceiling tiles, flooring (tile and mastic), drywall, and exterior stucco, cloth electrical wire coating. Table 1 is a list of those suspect materials identified to contain asbestos by PLM. Attachment A – "The Materials and Cost Estimate Matrix" lists all sampled suspect materials. Attachment A – "The Materials and Cost Estimate Matrix" lists all sampled suspect materials. All samples were sent to PSC's NVLAP accredited laboratory for Polarized Light Microscopy (PLM) for the determination of suspect materials that contain asbestos – Attachment B – "Laboratory Sample Results". Bulk sample (approximate) locations by structure are found in Attachment C – "Bulk Sample Location Plans".

Table 1

Building Address	Suspect Materials	Response Action Required	Approximate Quantity	Unit Price	Approximate Cost For Abatement
1920 Building	Black Mastic under Floor tile	No	800 sq ft	$3 to $5 per sq ft	$ 2,400 to $4,500
Non-Ferrous Warehouse	Window Glazing	No	1 Window	$125 each	$125
				Asbestos Abatement	$2,525 to $4,625
				3rd Party Oversight	$ 750 to $1,200
				Asbestos Liability	$3,275 to $5,825

Note: Roofing materials (felts, pitch, flashings) are all suspect for containing asbestos until thoroughly tested. Concrete Masonry Units (CMU) walls can be filled with an insulating material called vermiculite which can be asbestos containing.

This report has been prepared for the use of PSC Metals in evaluating the possible presence of asbestos at the subject site. **This report is not a comprehensive asbestos survey, and does not meet the requirements of a full asbestos survey for the purposes of performing demolition or renovation activities at any of the properties listed in this report.** The information found in this report is for the purposes of identifying possible asbestos environmental issues only. No other warranty, expressed or implied, is made to the information presented in this report. This report has not been prepared for use by parties other than those named or for uses other than those stated above. It may not contain sufficient information for the purposes of other parties or for other uses.

The information and analysis contained herein are based on data obtained from site reconnaissance and material sampling. The study assumes homogeneity of materials between sampling locations and, therefore, does not reflect variations in materials that may actually be present.

The quantities and locations that appear in this report are only approximate and are subject to the limitations of rough field measurements. PSC attempted searching for hidden ACM beneath flooring materials, in and behind walls, and above ceilings.

If there is a substantial lapse of time, between the submission of this report and the start of response actions at the subject facilities, or if conditions change due to deterioration, construction, or abatement operations at the sites, PSC urges that this report be reviewed to determine applicability of the results of this study considering the changed conditions and time lapse.

Should you have any questions or need additional information, please telephone me at 618-281-7173, ext. 1525.

Sincerely yours,
PSC INDUSTRIAL OUTSOURCING, LP

Jack L. Gardner, Jr.
Section Chief, Air Quality Services

cc: Al Becker – PSC industrial Outsourcing LP

ACM Report Final (Festus MO).docx

Attachments: A – Materials and Cost Estimate Matrix
B – Laboratory Sample Results
C – Bulk Sample Location Plans
D – Photo Log
E – PSC Credentials

ATTACHMENT A

Materials and Cost Estimate Matrix

PRIVILEGED & CONFIDENTIAL

EXHIBIT A

MATERIALS AND COST ESTIMATE MATRIX

PROJECT Festus - Shapiro Brothers
PROJ. # 624-1104-0030
BUILDING: Festus Yard - 1920 Structure

CONSULTANT(S): Jack Gardner

SAMPLE DATE: June 6, 2011

Homogeneous Material Number	Homogeneous Material Description	Approximate Quantity[1]	Material Type (S,T,M)[2]	Friable (Y or N)	Nonfriable Category (I or II)	Material Condition	Field Sample Number	Location	Column Locator	Asbestos Detected >1% by PLM (Y,N or NA)[3]	TEM or Point Count Confirmed? Y or N [4,5]	Cost Range
1.0	2'x2' Ceiling Tile - White Textured	NE	M	Y	—	Fair	SFB-01	1920 Building - Main Floor	---	N	N	---
2.0	12" Floor tile Gray with Blue Specks over Black mastic	800 sf	M	N	I	Fair	SFB-02	1920 Building - Main Floor	---	N - Floortile Y- Black Mastic	N	$3 to $4 per sf
3.0	Drywall, Joint Compound, Tape	NE	M	N	I	Fair	SFB-03	1920 Building - Main Floor	---	N	N	---
4.0	Stucco Exterior Veneer	NE	M	Y	—	Fair	SFB-04	1920 Building - Exterior	---	N	N	---
5.0	Cloth Electrical Wire Coating	NE	M	N	I	Fair	SFB-05	1920 Building - Lower Level	---	N	N	---

*This study assumes homogeneity of materials between sampling locations and, therefore, does not reflect variations in materials that may actually be present.
[1] Not Estimated (NE); Square feet (s.f.); lineal feet (l.f.); or number of fittings (fit.).
[2] Surfacing Material ("S"); Thermal System Insulation ("T"); and Miscellaneous Material ("M").
[3] Yes (Y), No (N), Not Analyzed (NA).
[4] Transmission Electron Microscopy (TEM); Point Counted (PC).
[5] Trace samples confirmed by point counting to contain less than 1% asbestos. 29CFR 1926.1101 (OHSA) and 40 CFR Part 61, Subpart M (NESHAPS), both define asbestos containing materials as any material that contains more than 1% asbestos.

S:\Shared\ENV\APB-PSC Metals Files\APB-624-1104-0030 (Shapiro Brothers)\ACM Support\ACM Surveys and Reports\Festus MO\[Sample_materials_&_cost_estimate_matrix_-Festus_Shapiro(1).xlsx]Sheet1

ATTACHMENT B

Laboratory Sample Results

SAMPLE RESULTS

Project Name:	Shapiro Brothers - Festus Yard	Date(s) Sampled:	06/06/11
Project Number:	624-1104-0030	Date(s) Received:	06/08/11
Microscopist:	Craig M. Brooks	Date(s) Analyzed:	06/08/11
Sampled By:	Jack L. Gardner	C.O.C. Number(s):	G8507
NVLAP Lab No.:	101192-0		

The "Method for the Determination of Asbestos in Bulk Building Materials" described in Test Method EPA/600/R-93/116 Section 2.2, Polarized Light Microscopy, was used to analyze the samples listed below.

				Asbestos Detected		Other Materials	
Sample ID	Lab ID	Homogeneity	Color	Type(s)	Percent	Type(s)	Percent
SFB-01	B112699	Homogeneous	White	---	--	Cellulose	40
						Fibrous Glass	40
						Perlite	20
SFB-02	B112700	Layered					
		Floor Tile	Gray	---	--	Vinyl	20
						Carbonates	75
						Quartz	05
		Mastic	Black	Chrysotile	15	Cellulose	03
						Tar	82
SFB-03	B112701	Layered					
		Joint Compound	White	---	--	Carbonates	92
						Quartz	08
		Tape	Tan	---	--	Cellulose	100
		Wallboard	Gray	---	--	Cellulose	22
						Gypsum	78
SFB-04	B112702	Homogeneous	Gray	---	--	Carbonates	80
						Quartz	20

SAMPLE RESULTS

Project Name:	Shapiro Brothers - Festus Yard	Date(s) Sampled:	06/06/11
Project Number:	624-1104-0030	Date(s) Received:	06/08/11
Microscopist:	Craig M. Brooks	Date(s) Analyzed:	06/08/11
Sampled By:	Jack L. Gardner	C.O.C. Number(s):	G8507
NVLAP Lab No.:	101192-0		

The "Method for the Determination of Asbestos in Bulk Building Materials" described in Test Method EPA/600/R-93/116 Section 2.2, Polarized Light Microscopy, was used to analyze the samples listed below.

				Asbestos Detected		Other Materials	
Sample ID	Lab ID	Homogeneity	Color	Type(s)	Percent	Type(s)	Percent
SFB-05	B112703	Homogeneous	Black	---	--	Cellulose	30
						Nonfibrous Material	70

All quanitations were determined by calibrated visual estimate (CVES). In consideration of USEPA - NESHAP regulations concerning regulated ACM (Asbestos Containing Material) with asbestos content greater than zero but less than ten percent, the owner or operator of the building may elect to assume the amount to be greater than 1 % and treat as asbestos-containing material or is required to verify the amount by an additional analyzing technique such as point counting.

PSC Industrial Outsourcing, LP (PSC) is accredited by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP #101192-0). This report shall not be used in any way to claim product endorsement by NVLAP or agency of the U.S. Government. This report relates solely to the items tested and shall not be reproduced except in full, without written approval of PSC.

Sincerely yours,

PSC Industrial Outsourcing, LP

Craig M. Brooks

Craig M. Brooks
Manager, Asbestos Laboratory Services
Date of Issue: 06/08/11

CMB/cmb/SFB-01.LAB

PHILIP

Chain of Custody Record – Nonchemical Samples

210 West Sand Bank Road
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 FAX

COC Serial No. G 8507

Project Name: Sharpio Brothers - Festus yard

Project Number: 624-1104-0030 Phase . Task .

Samplers: J. Gardner

Lab Name: PSC

Lab Location: Columbia, IL

Sample Number	Date	Time	Matrix	PLM					Comments
SFB-01	6-Jun-2011	–	Bulk	✓					
	↓		↓						
SFB-02				✓					
SFB-03				✓					
SFB-04				✓					
SFB-05	↓		↓	✓					

Analysis Type

Relinquished by:

Signature	Date	Time
Jack Xanedell	8-Jun-2011	1715

Received By:

Signature	Date	Time
Guy Brooks	6/8/11	1715

Carrier:

Airbill No.

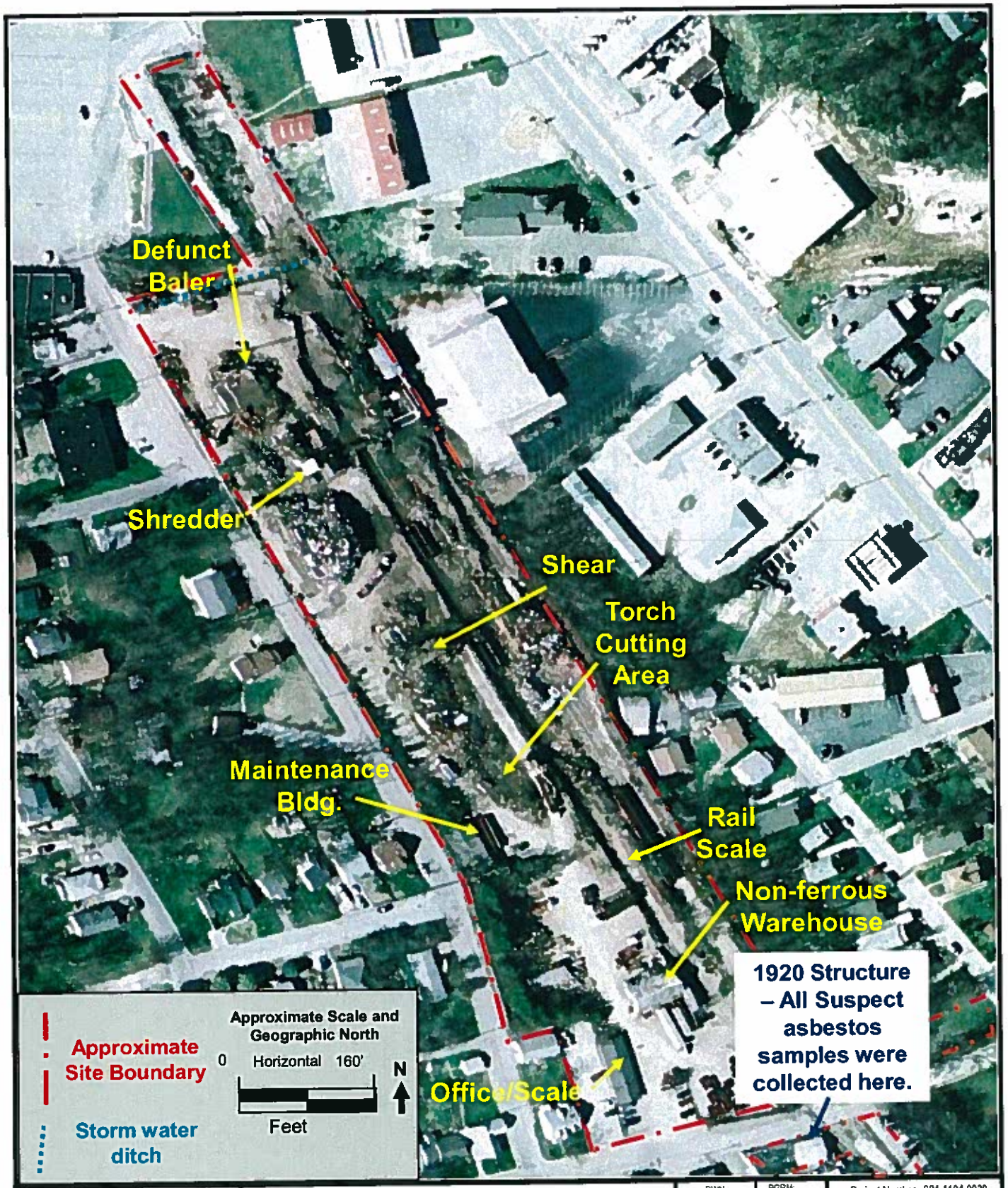
Shipping and Lab Notes:

PE-211 (4/95)

PROJECT MANAGER

ATTACHMENT C

Bulk Sample Location Plans



PSC	Site Features Map – Asbestos Figure 9th & Delmar Festus, Missouri	DWN: JLG	PGRM: APB	Project Number: 624-1104-0030
		DATE: 6/28/2011	REV: 0	FIGURE A-1

ATTACHMENT D

Photo Log

PSC Industrial Outsourcing, LP
210 West Sand Bank Road
Columbia, Illinois 62236-0230
Fax (618) 281-7020

Project Name: Shapiro Brothers
Project No.: 624-1104-0030
Location: Festus, Missouri

PHOTOGRAPHS

Photographer: Jack Gardner

Description:

Tan and Gray Floor tile inside of the 1920 Structure. Structure is currently being used as a parts warehouse. Tan and gray tiles are negative for asbestos, black mastic is positive for asbestos.

Date: June 6, 2011

Photo No. 1

PSC Sample number: SFB-02

PSC Industrial Outsourcing, LP
210 West Sand Bank Road
Columbia, Illinois 62236-0230
Fax (618) 281-7020

Project Name: Shapiro Brothers
Project No.: 624-1104-0030
Location: Festus, Missouri

PHOTOGRAPHS

Photographer: Jack Gardner

Description:

Tan and Gray Floor tile inside of the 1920 Structure. Structure is currently being used as a parts warehouse. Tan and gray tiles are negative for asbestos, black mastic is positive for asbestos.

Date: June 6, 2011

Photo No. 2

PSC Sample number: SFB-02

ATTACHMENT E

PSC Credentials

Expiration Date: **5/17/2012** Certificate Number: 7011041911MOIR3011

Training Date: **4/19/2011**

Missouri State Certificate for Asbestos Related Occupations

issued by Department of Natural Resources
P.O. Box 176
Jefferson City, MO 65102
Phone (573) 751-4817

Jack L. Gardner, Jr.

has successfully completed the requirements for certification as a INSPECTOR. This Missouri State Certification is subject to review and the director may deny, suspend or revoke the certification per RSMo chapter 643.230.

5/17/2011
Date

James L. Kavanaugh
Director of Air Pollution Control Program

VIA EMAIL and CERTIFIED MAIL Return Receipt Requested

December 13, 2011

Mr. Dennis Hansen
Missouri Department of Natural Resources
Hazardous Waste Program
Compliance and Enforcement Section
P.O. Box 176
Jefferson City, MO 65102-0176

Re: Notice of Violation #SLR07382748

Dear Mr. Hansen:

This correspondence is in response to the November 22, 2011 Notice of Violation ("NOV") sent by Mike Struckhoff to Gregory Shapiro of MW Recycling, LLC ("M W Recycling") regarding NOV SLR 07382748. MW Recycling acquired the assets of Shapiro Brothers, Inc. ("Shapiro Brothers") on September 26, 2011. MW Recycling is a wholly-owned subsidiary of PSC Metals, Inc. ("PSC Metals") and prides itself on its commitment to environmental excellence. The company takes seriously its responsibility to conduct its business in compliance with applicable federal, state, and local environmental regulations.

Toward that end, MW Recycling and PSC Metals have begun an assessment of the operations and management of environmental issues at this facility. MW Recycling received Mr. Struckhoff's letter on November 28, 2011 and offers this correspondence as its formal response.

As discussed below and in compliance with the NOV, we have taken the following actions to address the concerns raised (responses are ordered to correspond to the order of the alleged violations in your letter):

1. Hazardous Waste Determination

Tire Washer Solids: First, let me assure you that no tire washer solids have left the facility for off site disposal since the washer was installed earlier this year. These materials are being stored at the facility as discussed later in this correspondence. MW Recycling, based on its knowledge of the facility's operations and the traffic patterns of vehicles at the facility, determined that the tire washer solids were not hazardous.

Specifically, the vehicles coming into the facility traversed only limestone and did not enter any process or operational part of the facility. This limestone was obtained from a local quarry and was virgin material. On a periodic basis, Shapiro Brothers would build up the roadway with this virgin limestone. Additionally, the limestone roadway is elevated from the surrounding area and is thus not subject to runoff or any contamination from surrounding operational areas of the facility.

On December 1, 2011 MW Recycling retained the services of NPN Environmental to perform sampling on the tire washer solids. These samples were taken and prepared for shipment by NPN Environmental (NPN) and sent to Teklab, Inc. in Collinsville, Illinois for analysis. The results were received December 9. The results of the analysis on the tire wash solids reflect that these materials are non-hazardous. The sampling event summary from NPN, including the Teklab results, is included as **Appendix A.**

We understand that these results are not consistent with your sampling that indicates that these materials are a D008 waste. We believe our sampling is more representative of the waste street generated by the tire washer. We will contact you to discuss this prior to sending any of the tire washer solids off site for disposal. In the meantime, we are storing these materials in RCRA-compliant containers.

Street Sweeping Waste: We also retained NPN Environmental to sample the street sweeping waste. As with the tire washer solids, these samples were taken and prepared for shipment by NPN Environmental (NPN) and sent to Teklab, Inc. in Collinsville, Illinois for analysis. The results were received December 9. The results of the analysis on the street sweep waste reflect that these materials are non-hazardous. The sampling event summary from NPN, including the Teklab results, is included as **Appendix A.** Again, through our knowledge of the operations as discussed earlier, we determined that these materials were not hazardous and thus not subject to the regulations outlined in the NOV. Nevertheless, we are not co-mingling them with the fluff pile and are storing them in RCRA-compliant closed containers. We have asked David Rowe of NPN to contact you to discuss disposal of these materials.

The street sweeping solids and the solids generated from the tire wash process are being stored in one cubic yard super sacks on site. The super sacks were also placed on a plastic tarpaulin. The following photo shows the accumulated super sacks.

2. Shredder Fluff

The services of shredder fluff expert W.Z. Baumgartner and Associates (WZB) were retained to provide sampling and analysis of the shredder fluff generated at the facility. A representative from WZB conducted the sampling on December 1, 2011, and provided me with verbal results this afternoon. The results conclude that the shredder fluff is not hazardous. I will forward the results to you upon receipt.

As also requested in your letter, fluff shipments to the landfill have been discontinued pending the written confirmation of the results of the fluff analysis. Once we receive the written analysis on the fluff, we will resume disposal of this material as non-hazardous.

I trust that this is responsive to the requests in the NOV. Please recognize that we are committed to operating our business in compliance with all environmental regulations, and will implement steps necessary to ensure ongoing compliance with hazardous waster regulations. If you have any questions regarding this response, please contact me at (440) 753-5351.

Sincerely,

Steve Forystek
Director, Health Safety Environment & Transportation

cc: Greg Shapiro, Shapiro Brothers
Stuart Block, M W Recycling, LLC
Joe King, M W Recycling, LLC
Mark Pfeiffer, M W Recycling, LLC
Festus Facility Environmental File
Ms. Vickie Heberlie, MoDNR
St. Louis Regional Office
7545 South Lindbergh Blvd., Suite 210
Saint Louis, MO 63125

Appendix A

NPN Environmental Sampling Report
Teklab Analytical Reports

8/4/11 AM 8:00-9:00

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Chemical, Metallurgical, Mechanical, Nondestructive, Environmental Testing, Analyses and Field Service.

August 12, 2011
Lab No. 11E-1327
Invoice No. 138058

CITY OF FESTUS
950 N. 5th Street
Festus, MO 63028

Attention: Matt Clemens

REPORT OF TESTS

SAMPLE ID: SOIL SAMPLE, DELMAR/VINE, 8/4/11, 8:00 A.M.

Units: mg/kg **HEAVY METALS SCAN**

ANALYTE	RESULTS	MQL	SW-846 METHOD	DATE OF ANALYSIS
Silver	ND	12.5	3050 B/6010 C	8/10/11
Arsenic	65	25	3050 B/6010 C	8/10/11
Barium	586	12.5	3050 B/6010 C	8/10/11
Beryllium	ND	12.5	3050 B/6010 C	8/10/11
Cadmium	30	12.5	3050 B/6010 C	8/10/11
Chromium	45	12.5	3050 B/6010 C	8/10/11
Cobalt	ND	12.5	3050 B/6010 C	8/10/11
Copper	257	12.5	3050 B/6010 C	8/10/11
Iron	26390	12.5	3050 B/6010 C	8/10/11
Manganese	471	12.5	3050 B/6010 C	8/10/11
Mercury	ND	0.5	3050 B/6020 A	8/11/11
Molybdenum	12.5	12.5	3050 B/6010 C	8/10/11
Nickel	45	12.5	3050 B/6010 C	8/10/11
Lead	2240	12.5	3050 B/6010 C	8/10/11
Antimony	ND	25	3050 B/6010 C	8/10/11
Selenium	25	25	3050 B/6010 C	8/10/11
Zinc	4020	12.5	3050 B/6010 C	8/10/11

MQL: Minimum Quantitative Limit
ND: None Detected Above MQL
NR: Not Regulated

Steve Root

Steve Root, Manager
Environmental Testing

SR/krm

MEMBER ACIL

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Chemical, Metallurgical, Mechanical, Nondestructive, Environmental Testing, Analyses and Field Service.

August 26, 2011
Lab No. 11E-1495
Invoice No. 138709
Page 1 of 1

CITY OF FESTUS
950 N. 5th Street
Festus, MO 63028

Attention: Matt Clemens

REPORT OF TESTS

SAMPLE ID: SOIL SAMPLE, DELMAR/VINE, 8/4/11, 8:00 A.M.

Units: mg/L Per TCLP

ANALYTE	RESULTS	MQL	MAXIMUM ALLOWABLE	SW-846 METHOD NUMBER	DATE OF ANALYSIS
Cadmium	0.32	0.05	1.0	1311/3010/6010	8/26/11
Lead	10.82	0.05	5.0	1311/3010/6010	8/26/11
Selenium	0.14	0.10	1.0	1311/3010/6010	8/26/11

MQL: Minimum Quantitative Limit
ND: None Detected Above MQL

Date of Extraction: 8/25-26/11

Final pH of Extract: 5.37

Steve Root

Steve Root, Manager
Environmental Testing

SR/krm

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August 12, 2011
Lab No. 11E-1327
Invoice No. 138058

CITY OF FESTUS
950 N. 5th Street
Festus, MO 63028

Attention: Matt Clemens

REPORT OF TESTS

SAMPLE ID: SOIL SAMPLE, DELMAR/VINE, 8/4/11, 8:00 A.M.

RESULTS: Dry Basis

ANALYTE	RESULTS	MQL	SW-846 METHOD	DATE OF ANALYSIS
TPH-DRO (C_{10}-C_{21}), mg/kg	170 (J)	305	3550B/8270C	8/10/11
TPH-ORO (C_{21}-C_{35}), mg/kg	1230	305	3550B/8270C	8/10/11
TPH-GRO (C_6-C_{10}), µg/kg	220 (J)	543	5030/8260B	8/5/11

MQL: Minimum Quantitative Limit
ND: None Detected Above MQL

(J) - Analyte detected at a level below the MQL

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