MHS
ENVIRONMENTAL, INC.

MRBCA CLOSURE REPORT

ZILL, INC.
3814 EAST 31ST STREET
KANSAS CITY, MISSOURI

ST 8310

December 8, 2006

13-A NW Barry Rd, PMB 192 • Kansas City, MO 64155-2728
tele/fax 816.734.5021 • cell 816.590.1204 • mhshydro@earthlink.net

Risk-Based Corrective Action For Petroleum Releases At Underground Storage Tank Sites

(MRBCA CLOSURE REPORT)

SITE:	*Zill, Inc.*
ADDRESS:	*3814 East 31st Street*
	Kansas City, MO 64123
SITE NO.:	*8310*
RELEASE NO.:	*Incident No. 061207-0909-DLT*
SUBMITTAL DATE:	*December 8, 2006*
PREPARED BY:	*MHS Environmental, Inc.*
REVIEWED BY:	*MHS Environmental, Inc.*

UNDERGROUND STORAGE TANK CLOSURE REPORT (Page 1 of 3) FORM CR-1 (1 of 3)

SITE NO.: 8310	SUBMITTAL DATE: 08-Dec-06	PREPARED BY: MHS Environmental, Inc.

Facility Information

Name: *Zill, Inc.*

Address: *3814 East 31st Street*
Kansas City, MO 64123

Phone number (if applicable):

Date of Project Initiation: *25-Sep-06*

Date of Project Completion: *Nov-06*

UST Owner Information

Name: *Mr. Imtiaz Moknijla*

Address: *3814 East 31st Street*
Kansa City, MO 64123

Phone number: *816-510-0457*

Email:

Contact Person: *Mr. Imtiaz Moknijla*

Party performing Closure

Name: *Rick's Petro Service*

Address: *1609 SW 20th Street*
Blue Springs, MO 64015

Phone number: *816-536-8029*

Email:

Contact Person: *Mr. Rick Cherry*

CERTIFICATION OF COMPLETE CLOSURE

I certify that the information in this report is true and complete.

Party performing closure: Rick's Petro Service

Rick Cherry
Signature

12/17/06
Date

Owner/Operator:

Imtiaz Moknijla
Signature

12/17/06
Date

RETURN TO:
Missouri Department of Natural Resources, Hazardous Waste Program, Tanks Section, P. O. Box 176, Jefferson City, MO 65102.

UNDERGROUND STORAGE TANK CLOSURE REPORT (Page 2 of 3)		FORM CR-1 (2 of 3)
SITE NO.: 8310	SUBMITTAL DATE: 08-Dec-06	PREPARED BY: MHS Environmental, Inc.

Tank Disposal Information:

Fate of tanks:

- ☑ Recycle Salvage
- ☐ Landfill
- ☐ Unregulated (explain)

Final destination of tanks: *Tennyson Tank Disposal/Langley Recycling*

Address: *3501 Raytown Road*

Kansas City, MO

Soil Disposal Information

Cubic yards of soil excavated (total): *805.43 tons (537 cubic yards)*

Cubic yards of non-contaminated soil returned to pit: *none*

Cubic yards of contaminated soil disposed or treated: *805.43 tons (537 cubic yards)*

Disposal of Petroleum Contaminated Water and Sludge

Gallons of wastewater generated: *None*

Method of disposal:

- ☐ Hazardous waste disposal firm
- ☐ On-site discharge under general permit limits
- ☐ Discharge to wastewater treatment plant

Gallons of sludge/rinsate disposed: *None*

Hazardous waste disposal firm:

Address:

Mandatory Attachments:

1. Attach a map or multiple maps of the site which includes: a) the size and contents of all USTs; b) the locations and lengths of all fuel lines; c) the locations of all pump islands; d) the location of the excavation pit boundaries; e) the locations of all required samples using the specified labeling format; f) the location of all above ground tanks and associated piping, plus the size and contents of each; g) the depth to the bottom of each tank and depth of all excavations; h) the direction and degree of slope on the site; i) the scale of the sketch in feet; and j) all properties immediately adjacent to the site.

2. Attach color photographs of the following: a) all sides of the removed UST(s); b) each wall and floor of the excavation pit, if USTs are removed; c) all sealed vent or pipe lines (if applicable); d) the sealed UST(s), if closed in-place; and e) the site before the initiation of the closure and after the completion of the closure.

3. Attach appropriate documentation of soil disposal or treatment.
4. Attach copy of "Virgin Product Disposal Form" or "Special Waste Form" if applicable.
5. Attach bills of sale/certificate of disposal.

UNDERGROUND STORAGE TANK CLOSURE REPORT (Page 3 of 3)		FORM CR-1 (3 of 3)
SITE NO.: 8310	SUBMITTAL DATE: 08-Dec-06	PREPARED BY: MHS Environmental, Inc.

USTs CLOSED

Tank #	Capacity (gallons)	Year Installed	Date Removed from Service (Use)	UST Construction Material	Product Stored	Method of Closure
1	10000	*unknown*	*Sep-06*	*Steel*	*Gasoline*	*Removal*
2	10000	*unknown*	*Sep-06*	*Steel*	*Gasoline*	*Removal*
3	4000	*unknown*	*Sep-06*	*Steel*	*Diesel*	*Removal*

* R = Removal, I = In-place.

USER REGISTRATION

Are USTs registered? ☑ YES ☐ NO

Are closed USTs going to be replaced with new USTs? ☑ YES ☐ NO

RETURN TO:

Missouri Department of Natural Resources, Hazardous Waste Program, Tanks Section, P. O. Box 176, Jefferson City, MO 65102.

FORM 8-2

RESULTS OF SOIL ANALYSIS

SUBMITTAL DATE: 08-Dec-06

PREPARED BY: MHS Environmental, Inc.

SITE NO.: 8310

														ON-SITE		OFF-SITE	
	○ On-site ○ Off-site	○ On-site ○ Off-site	○ On-site ○ Off-site	○ On-site ○ Off-site	○ On-site ○ Off-site	○ On-site ○ Off-site	○ On-site ○ Off-site	○ On-site ○ Off-site	○ On-site ○ Off-site	○ On-site ○ Off-site	○ On-site ○ Off-site	○ On-site ○ Off-site	○ On-site ○ Off-site	Arithmetic Average	Maximum	Arithmetic Average	Maximum
MW / SB No.	DG-Well	10K-N-Est	10K-N-Wst	10K-S-Est	10K-S-Wst	4K-Est	4K-Wst	10K-N-Nrh	4K-South	P-1	P-2	P-3					
Sampling Date	09/28/06	09/28/06	09/28/06	09/28/06	09/28/06	09/28/06	09/28/06	09/28/06	09/28/06	10/11/06	10/11/06	10/11/06					
Sample Depth (ft)	10-11	10-11	10-11	10-11	10-11	10-11	10-11	10-11	10-11	2-3	2-3	2-3		Only for review purposes, not necessarily used as representative concentrations.			

REFRESH

ORGANICS (all concentrations must be in mg/kg)																	
Benzene	0.012	0.005	2.3	0.017	0.004	0.139	2.18	0.05	0.004	1.98	11.5	1.85	5.217	11.500	NA	NA
Toluene	0.018	0.01	2.05	0.019	0.012	0.058	1.07	0.048	0.01	<0.883	244	8.54	82.197	244.000	NA	NA
Ethylbenzene	0.004	0.002	0.231	0.001	0.002	0.021	0.747	0.004	0.002	2.85	96.6	11.3	36.044	96.600	NA	NA
Xylenes (mixed)	0.014	0.008	0.464	0.005	0.009	0.188	0.639	0.013	0.007	6.36	626	12.3	212.921	626.000	NA	NA
Ethylene Dibromide (EDB)	<0.001	<0.001	<0.122	<0.001	<0.001	<0.0008	<0.078	<0.0008	<0.0008	<0.883	<1.56	<0.886	0.295	0.780	NA	NA
Ethylene Dichloride (EDC)	<0.001	<0.001	<0.122	<0.001	<0.001	<0.0008	<0.078	<0.0008	<0.0008	<0.883	<1.56	<0.886	0.295	0.780	NA	NA
Methyl-tert-butyl-ether(MTBE)	<0.005	<0.005	<0.610	<0.005	0.018	0.007	<0.392	<0.004	0.004	<0.415	<7.82	<0.428	1.476	3.910	NA	NA
Acenaphthene													NA	NA	NA	NA
Anthracene													NA	NA	NA	NA
Benzo(a)anthracene													NA	NA	NA	NA
Benzo(a)pyrene													NA	NA	NA	NA
Benzo(b)fluoranthene													NA	NA	NA	NA
Benzo(k)fluoranthene													NA	NA	NA	NA
Chrysene													NA	NA	NA	NA
Dibenzo(a,h)anthracene													NA	NA	NA	NA
Fluoranthene													NA	NA	NA	NA
Fluorene													NA	NA	NA	NA
Naphthalene	<0.001	<0.001	<0.122	<0.001	<0.001	0.022	<0.078	<0.0008	<0.0008	1.08	45.5	8.62	18.060	45.500	NA	NA
Pyrene													NA	NA	NA	NA
TPH-GRO	0.5	0.2	<12.2	0.2	0.2	9.2	<7.8	0.3	0.4	132	5410	673	2,029.700	5,410.000	NA	NA
TPH-DRO	<15	<15	<43.6	<15	<15	<29.5	<29.7	<15	<15	33.1	194	288	165.267	280.000	NA	NA
TPH-ORO	<15	<15	<43.6	<15	<15	<29.5	<29.7	<15	<15	<15	<75	<150	44.767	75.000	NA	NA
Tertiary-amyl-methyl-ether (TAME)	<0.01	<0.01	<1.22	<0.01	<0.01	<0.008	<0.784	<0.008	<0.008	<0.829	<15.6	<0.856	2.946	7.800	NA	NA
Tertiary-butyl- alcohol (TBA)	<0.25	<0.25	<38.5	<0.25	<0.25	<0.199	<19.6	<0.205	<0.208	<20.7	<391	<21.4	73.817	195.500	NA	NA
Ethyl-tert-butyl-ether (ETBE)	<0.01	<0.01	<1.22	<0.01	<0.01	<0.008	<0.784	<0.008	<0.008	<0.829	<15.6	<0.856	2.946	7.800	NA	NA
Di-isopropyl ether (DIPE)	<0.01	<0.01	<1.22	<0.01	<0.01	<0.008	<0.784	<0.008	<0.008	<0.829	<15.6	<0.856	2.946	7.800	NA	NA
Ethanol													NA	NA	NA	NA
Methanol													NA	NA	NA	NA
METALS (all concentrations must be in mg/kg)																
Arsenic													NA	NA	NA	NA
Barium													NA	NA	NA	NA
Cadmium													NA	NA	NA	NA
Chromium													NA	NA	NA	NA
Lead	15.7	17.4	17.9	14.3	18.2	13.1	7.7	11.8	11.4	14.8	17.6	18.9	18.133	18.900	NA	NA
Selenium													NA	NA	NA	NA

NOTE:
Non-detects must be entered as <detection limit (for example, <0.005).
Maximum is the greater of (i) the detected values, and (ii) one-half of the detection limit.
NA: Not Applicable
Mandatory Attachments: 1. Site map showing location(s) of surficial soil sample(s).
2. Any laboratory analytical datasheets and chain of custody forms not previously submitted to the MDNR.

Soil

FORM R-3

RESULTS OF ~~GROUNDWATER~~ ANALYSIS (CONTINUED)

PREPARED BY: MHS Environmental, Inc.

SITE NO.: 8310

SUBMITTAL DATE: 08-Dec-06

MW / SB No.	PI-1	PI-2	PI-3	PI-3	PI-4	PI-4	PI-5	PI-5					Arithmetic Average	Maximum
Sampling Date	10/12/06	10/12/06	10/27/06	10/27/06	10/27/06	10/27/06	10/27/06	10/27/06					Only for review purposes, not necessarily used as representative concentrations.	
Sample Depth* (ft)	2-3	2-3	2-3	8-9	2-3	8-10	2-3	8-10						
ORGANICS (all concentrations must be in ~~ppb~~) (mg/kg)														
Benzene	28.4	0.516	1.88	6.33	0.913	<0.084	0.173	4.6					6.116	28.400
Toluene	333	<0.086	<0.082	0.398	<0.078	<0.084	<0.075	<0.091					164.699	333.000
Ethylbenzene	100	0.713	2.5	18.8	0.183	<0.084	<0.074	5.88					21.213	100.000
Xylenes (mixed)	577	2.36	0.678	6.21	1.64	<0.168	<0.149	15.5					100.565	577.000
Ethylene Dibromide (EDB)	<1.64	<0.086	<0.082	<0.156	<0.078	<0.084	<0.074	<0.091					NA	NA
Ethylene Dichloride (EDC)	<1.64	<0.086	<0.082	<0.156	<0.078	<0.084	<0.074	<0.091					NA	NA
Methyl-tert-butyl-ether(MTBE)	<8.18	<0.429	<0.408	<0.779	<0.389	<0.419	<0.372	<0.455					NA	NA
Acenaphthene	<1.65		<1.65		<1.65								NA	NA
Anthracene	<1.65		<1.65		<1.65								NA	NA
Benzo(a)anthracene	<1.65		<1.65		<1.65								NA	NA
Benzo(a)pyrene	<1.65		<1.65		<1.65								NA	NA
Benzo(b)fluoranthene	<1.65		<1.65		<1.65								NA	NA
Benzo(k)fluoranthene	<1.65		<1.65		<1.65								NA	NA
Chrysene	<1.65		<1.65		<1.65								NA	NA
Dibenzo(a,h)anthracene	<1.65		<1.65		<1.65								NA	NA
Fluoranthene	<1.65		<1.65		<1.65								NA	NA
Fluorene	<1.65		<1.65		<1.65								NA	NA
Naphthalene	29.2	<0.086	2.32	17.8	<0.078	<0.084	<0.074	0.936					12.564	29.200
Pyrene	<1.65		<1.65		<1.65								NA	NA
TPH-GRO	6450	18.9	172	1800	348	<8.4	<7.4	185					1482.317	6450.000
TPH-DRO	183	<15	155	28.5	329	<15	<15	<15					173.875	329.000
TPH-ORO	<75	<15	641	<15	1480	<15	<15	<15					1060.500	1480.000
Tertiary-amyl-methyl-ether (TAME)	<16.4	<0.858	<0.816	<1.56	<0.778	<0.838	<0.744	<0.911					NA	NA
Tertiary-butyl- alcohol (TBA)	<409	<21.4	<20.4	<38.9	<19.4	<20.9	<18.6	<22.8					NA	NA
Ethyl-tert-butyl-ether (ETBE)	<16.4	<0.858	<0.816	<1.56	<0.778	<0.838	<0.744	<0.911					NA	NA
Di-isopropyl ether (DIPE)	<16.4	<0.858	<0.816	<1.56	<0.778	<0.838	<0.744	<0.911					NA	NA
Ethanol													NA	NA
Methanol														
METALS (all concentrations must be in ~~ppb~~) (mg/kg)														
Arsenic													NA	NA
Barium													NA	NA
Cadmium													NA	NA
Chromium													NA	NA
Lead	17.8	16.8	119	18.9	17.1	12.9	16.1	9.6					28.525	119.000
Selenium													NA	NA

NOTE:
Non-detects must be entered as <detection limit (for example, <0.005).
Maximum is the greater of (i) the detected values, and (ii) one-half of the detection limit.

Mandatory Attachments: 1. Site map showing location(s) of samples.
2. Any laboratory analytical datasheets not previously submitted to the MDNR.

FORM GR-1

RESULTS OF GROUNDWATER ANALYSIS

SUBMITTAL DATE: 08-Dec-06

PREPARED BY: MHS Environmental, Inc.

SITE NO.: 8310

MW / SB No.	*None*												Arithmetic Average	Maximum
Sampling Date													Only for review purposes, not necessarily used as representative concentrations.	
Sample Depth* (ft)														
ORGANICS (all concentrations must be in ug/L)														
Benzene													NA	NA
Toluene													NA	NA
Ethylbenzene													NA	NA
Xylenes (mixed)													NA	NA
Ethylene Dibromide (EDB)													NA	NA
Ethylene Dichloride (EDC)													NA	NA
Methyl-tert-butyl-ether(MTBE)													NA	NA
Acenaphthene													NA	NA
Anthracene													NA	NA
Benzo(a)anthracene													NA	NA
Benzo(a)pyrene													NA	NA
Benzo(b)fluoranthene													NA	NA
Benzo(k)fluoranthene													NA	NA
Chrysene													NA	NA
Dibenzo(a,h)anthracene													NA	NA
Fluoranthene													NA	NA
Fluorene													NA	NA
Naphthalene													NA	NA
Pyrene													NA	NA
TPH-GRO													NA	NA
TPH-DRO													NA	NA
TPH-ORO													NA	NA
Tertiary-amyl-methyl-ether (TAME)													NA	NA
Tertiary-butyl- alcohol (TBA)													NA	NA
Ethyl-tert-butyl-ether (ETBE)													NA	NA
Di-isopropyl ether (DIPE)													NA	NA
Ethanol													NA	NA
Methanol														
METALS (all concentrations must be in ug/L)													NA	NA
Arsenic													NA	NA
Barium													NA	NA
Cadmium													NA	NA
Chromium													NA	NA
Lead													NA	NA
Selenium													NA	NA

NOTE:
Non-detects must be entered as <detection limit (for example, <0.005).
Maximum is the greater of (i) the detected values, and (ii) one-half of the detection limit.

Mandatory Attachments: 1. Site map showing location(s) of samples.
2. Any laboratory analytical datasheets not previously submitted to the MDNR.

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APPENDICES

Approvals

MRBCA Closure Notice

PSTIF Cost Approval

Waste Disposal

Landfill Approval Letter

Landfill Invoices

Cleaning and Disposal Certificates USTs

Bedrock Evaluation

Photographs

Analytical Reports

1.0 INTRODUCTION

This Underground Storage Tank (UST) Closure Report has been prepared to document closure by removal of USTs at the Zill, Inc. facility located at 3814 East 31st Street, in Kansas City, Missouri. It should be noted that the facility is located on a double lot. The address of either 3814 or 3816 is correct. The location of the site is shown on Figure 1. The site and USTs were registered with the Missouri Department of Natural Resources (MDNR) as ST 8310. Prior to mobilization and commencement of the closure activities, approval was secured from the MDNR and the Petroleum Storage Tank Insurance Fund (PSTIF). Copies of the approved UST Closure Notice and the PSTIF cost approval letters have been included in the appendices of this report.

A total of three USTs were removed from the site. All the USTs removed supported recent fuel retail operations at the facility and included two 10,000-gallon and one 4,000-gallon USTs. The two 10,000-gallon USTs contained gasoline and the 4,000-gallon UST contained diesel. As the fuel dispensers and islands were not replaced during the closure, it was necessary to mobilize a direct-push rig to the site to conduct closure sampling near the product lines and pump islands. During the direct-push sampling, three borings were advanced and soil samples collected from 2 to 3 feet and 8 to 10 feet depth intervals. The deep samples were obtained to provide analytical data regarding the depth of potential impact. The additional soil sampling was discussed in the field with both MDNR and PSTIF representatives. Closure of the former USTs was followed by replacement with two new USTs to support the fuel retail operations at the facility. The new USTs installed at the site included a 12,000-gallon and an 8,000/4,000-gallon dual compartmentalized tank. Following removal of the old USTs and backfill material, the two new USTs were installed within the old tank pit.

Following receipt of documentation of a release, the MDNR Emergency Hotline was called to notify the state. The release was evidenced by analytical results obtained during the closure fieldwork. The emergency response incident number assigned to this site is #06-1207-0909-DLT.

2.0 FIELD ACTIVITIES

Rick's Petro Service (RPS) performed the UST closure. RPS subcontracted MHS Environmental, Inc. (MHS) to conduct the field sampling and develop the UST Closure Report. MHS mobilized to site during the week of September 25, 2006 to obtain photographic documentation and collect closure samples from around the USTs. On September 26, 2006 a soil sample was collected to obtain approval from the landfill for soil disposal. The USTs were removed on September 26 and 27, 2006. Cleaning operations were monitored by use of field screening equipment. The old UST pit was over-excavated slightly to accommodate the larger 12,000 and 8,000/4,000-gallon replacement USTs. The final dimensions of the new UST pit were approximately 44 feet by 29 feet by 12 feet deep.

Approximately 70 gallons of product was pumped from the USTs prior to removal. All fuel product removed from the USTs was re-used for it original purpose. Accordingly, there wasn't any rinsate or sludge generated during the UST closure activities.

Soil closure sampling around the three USTs was conducted on September 28, 2006. Closure sampling for the tank pits consisted of collection of eight soil samples and a downgradient wall sample for the three USTs. All samples were collected in native soil immediately above the bedrock at depths ranging from 10 to 11 feet.

On October 11 and 12, 2006, soil samples were collected from beneath the old product lines and dispenser islands located near 31st Street. These two former pump islands had not been in use for an unknown period of time. The present owner of the facility wanted to install new islands and product lines in this area to provide for future retail expansion. Soil samples were collected during the excavation for

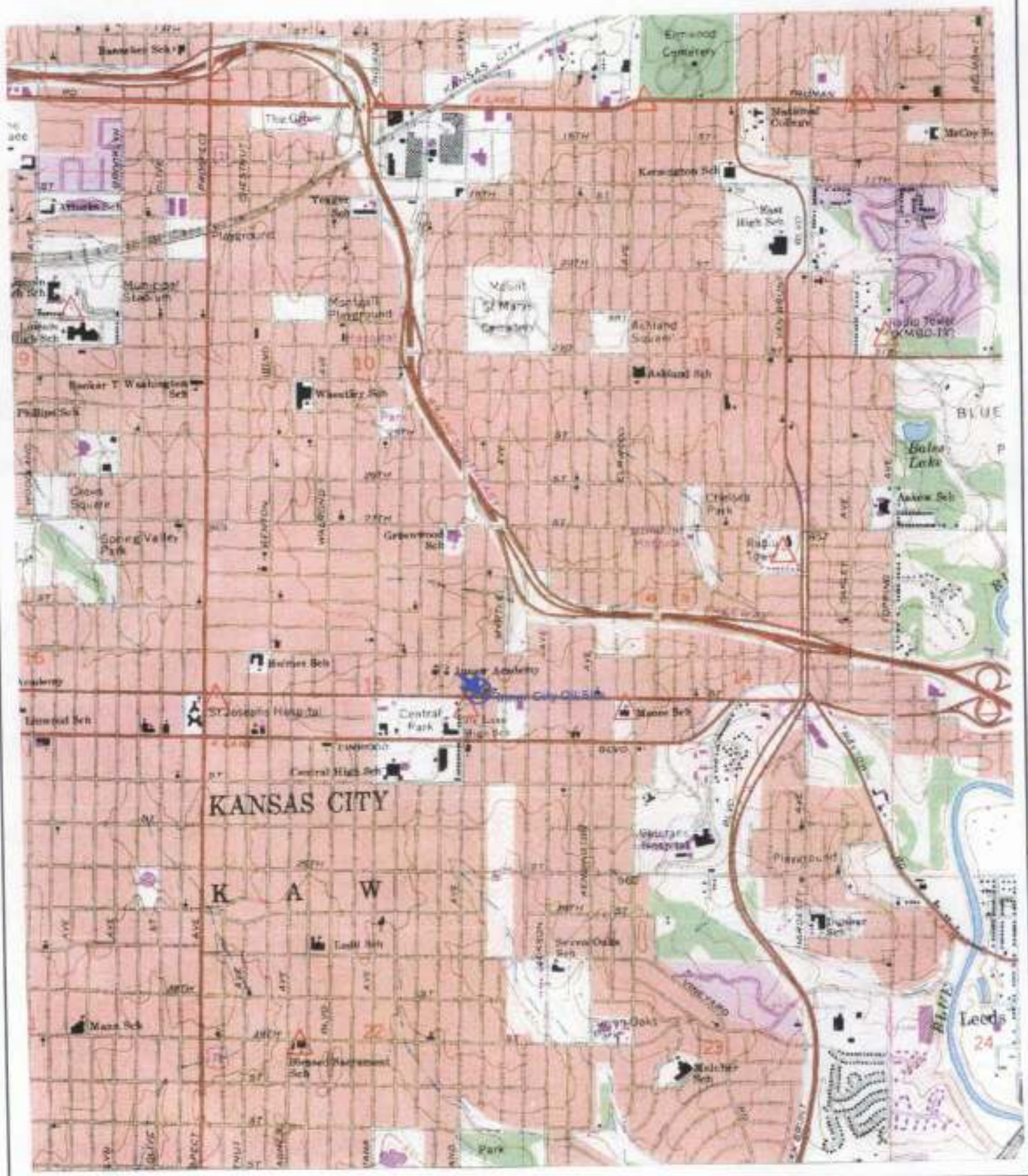


FIGURE 1
SITE LOCATION MAP
INNER CITY OIL
3814 E. 31ST STREET
KANSAS CITY, MISSOURI
ST 8310

the new product lines and pump islands. A total of five samples were collected, two from beneath the former pump islands and three from beneath the former product lines. Samples were obtained from native soil at depths ranging from 2 to 3 feet.

On October 27, 2006, soil samples were collected from beneath the active product lines and pump islands. It was necessary to mobilize a direct-push rig to site to conduct this sampling. A total of six samples were collected from three locations identified as PI-3, PI-4 and PI-5. Analytical results from these samples would be used for closure beneath the three pumps islands and product lines. In addition results from sample 4K-South could also be used to detect potential impact beneath the active product lines as they exit the tank pit. For purpose of closure sampling beneath the pump islands, the samples were collected from native soil at depths ranging from 2 to 3 feet. Deeper soil samples were also collected from these borings to detect potential impact to soil near the bedrock surface. The deep samples were collected from depths ranging from 8 to 10 feet, immediately above bedrock (defined as push-probe refusal).

Results from a soil sample collected on September 26, 2006 were used to obtain landfill approval. Impacted soil excavated from the tank cavity, product lines, and utility lines was transported to the Courtney Ridge Landfill in Sugar Creek, Missouri for disposal.

Analytical results from the UST closure are shown in the closure document forms CR-2. No groundwater was encountered during the UST closure activities. Figure 2 shows the locations of where the closure samples were collected.

During excavation of the former tank pit to accommodate the new USTs native soil encountered consisted primarily of silty clay. Impacted material excavated from the tank pit was transported to the Courtney Ridge Landfill in Sugar Creek, Missouri disposal. A copy of the approval from the landfill and invoice showing the individual truck loads has been included in the appendices.

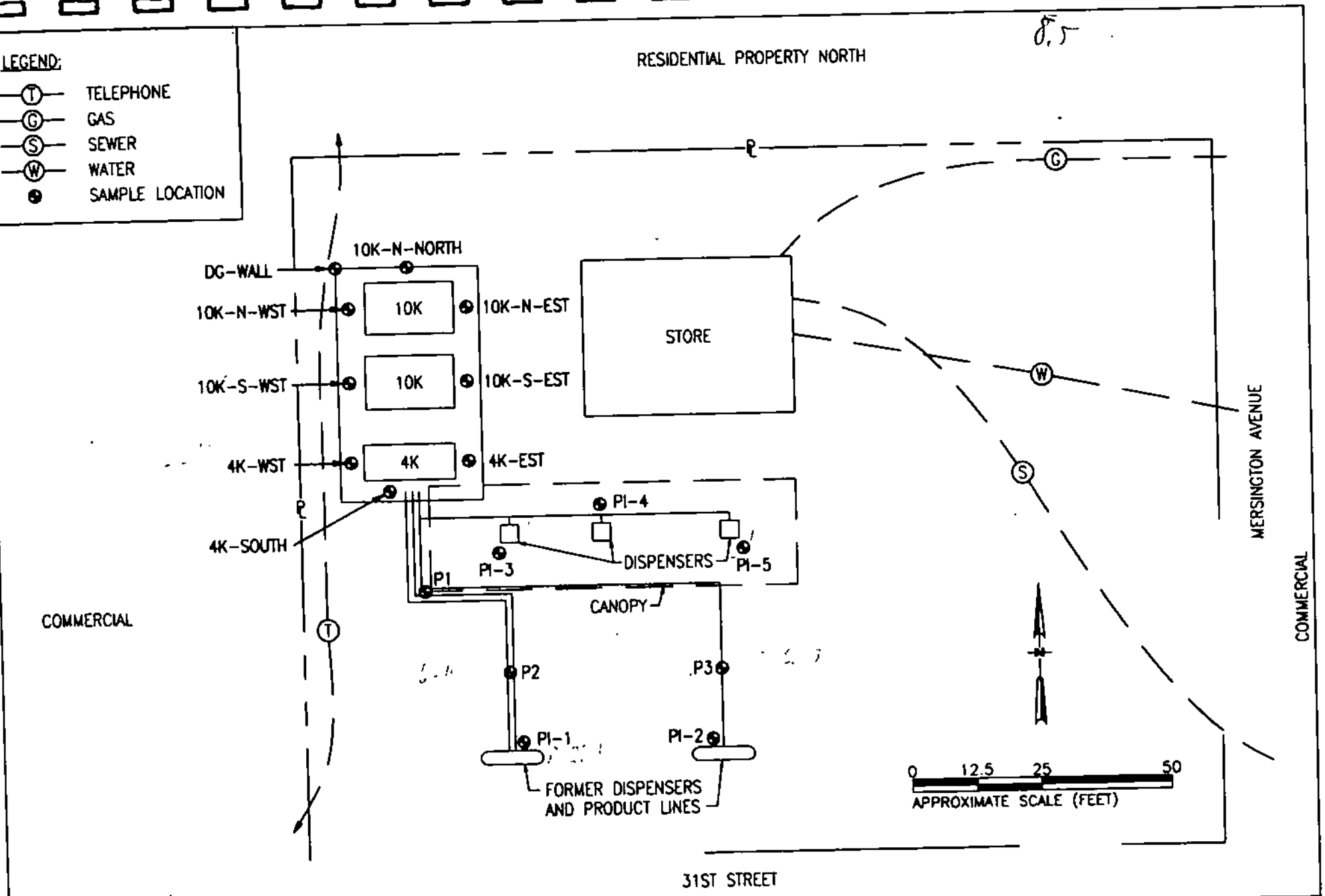
Depth measurements of sample collection points in the UST pits were made to the top of the ground/concrete surface. The extent of the tank pit excavation for the new USTs, and sampling locations are shown in Figure 2. The final excavation for the tank pit holding the replacement USTs was about 44 feet by 29 feet. The depth of the excavation was between 11 to 12 feet bgs.

During the closure activities, MHS analyzed the soil samples collected with a photo-ionization detector (PID) to obtain field-screening data for the impacted soil. PID measurements from the samples used to document closure ranged from 47 to 1,694 ppm. Measurements for soil samples used to document soil impact ranged from 501 to 1,710 ppm.

Photographs taken during the UST closure activities to document UST removal/cleaning and bedrock have been included in the appendices. The bedrock evaluation has also been included in the appendices.

3.0 LAND USE

The facility is located within the city limits of Kansas City, Missouri on the north side of 31st Street. Property located north of the site is residential. The immediate adjacent property northwest of the site however is vacant. East across Mersington Avenue is a commercial facility. Immediately west of the site is an automotive repair shop and south across 31st Street is either city parking (south) or tennis courts (southwest). Further south, past the city parking is a residential area. Generally, east and west along 31st Street are commercial establishments with residential areas located a block north and south of the commercial and business areas.



PROJ.# -	PAGE# 1
SCALE: AS NOTED	DRAWN BY: RAB
FILE: F2	DESIGNED BY: MS
DATE: 12-8-06	APPROVED BY:

MHS ENVIRONMENTAL, INC.

13-A N.W. BARRY ROAD PMB 192
KANSAS CITY, MISSOURI 64155

FIGURE 2
SAMPLE LOCATIONS
3814 E. 31ST STREET
KANSAS CITY, MO
ST 8310

4.0 ANALYTICAL RESULTS

Analytical results from the samples used to characterize impacted soil are identified as Waste 1, Waste 2, Waste 3 and Waste 5. These samples represented impact levels to soil that was transported off-site for disposal and does not represent current conditions of native soil remaining on site. Analytical results from these samples are provided in Table 1. Analytical results from closure samples collected for use to document residual impact (from the UST pit, product lines and dispensers) to the native soil are shown in the closure document forms CR-2. Copies of the analytical reports with chain-of-custody forms for all samples are included in the appendices.

5.0 TANK DISPOSITION

Following removal and cleaning, Tennyson Tank Disposal salvaged the tanks and managed them as salvaged steel. Documentation of cleaning and disposal of the three USTs is included in the appendices.

6.0 WASTE DISPOSAL

Documentation for all impacted soil excavated and disposed at the landfill has been included in the appendices. The total volume of impacted soil disposed at the landfill was about 537 yds^3 (805.43 tons). This included soil excavated during excavation of the tank pit, new product and utility lines. Documentation of the impacted soil disposed at the landfill is included in the appendices.

There wasn't any sludge or rinsate generated during the closure activities. The product remaining in the USTs (approximately 70 gallons) was re-used for it original purpose. No groundwater was encountered during the UST closure.

7.0 CONCLUSIONS

Based on analytical data and other information collected during the UST closure, the following conclusions have been derived for the closure at the site:

- Based on the analytical results from soil samples collected during the UST closure activities, impact has occurred to soil beneath the site as a result of historic fuel retail operations. The extent of impact was not delineated during the UST closure activities. Results show benzene levels beneath the site range from non-detect to 28.4 mg/kg and TPH-GRO from non-detect to 6,450 mg/kg. The high end of these results were obtained from a single the sample identified as PL-1 collected from 2 to 3 feet beneath a former pump island. Additional site assessment is needed to delineate impacts.

- Land use at the site would be non-residential however property north of the site is residential use. Based on surface topography, the north properties are located down gradient of the site.

- Bedrock was present beneath the site a depth of approximately 10 to 11 feet bgs. Based on research bedrock beneath the site is the Raytown Limestone member of the Chanute Shale

- No groundwater or free product was observed during the UST closure.

Table 1
Soil Analytical Results (mg/kg)
Waste & Landfill Characterization Samples

Analyte	Sample Identification					
	DTLs *	Waste 1 9/28/2006	Waste 2 9/28/2006	Waste 3 9/28/2006	Waste5-East** 10/11/2006	Landfill 9/26/2006
Benzene	0.0561	10.3	17.2	10.3	8.43	7.68
Toluene	29.8	65.7	68.1	68.1	130	76.1
Ethylbenzene	39.9	26.3	29.3	22.0	51.1	23.1
Xylenes	170	116	118	105	346	109
1,2-Dibromoethane (EDB)	0.00047	<0.432	<0.414	<0.444	<0.761	NA
1,2-Dichloroethane (EDC)	0.00631	<0.432	<0.414	<0.444	<0.761	NA
Napthalene	1.06	6.76	5.67	4.47	27.4	NA
Methyl tert-butyl ether (MTBE)	0.453	<2.16	<2.07	<2.22	<3.81	NA
tert-Amyl methyl ether (TAME)	5.11	<4.32	<4.14	<4.44	<7.61	NA
tert-Butanol (TBA)	0.563	<108	<103	<111	<190	NA
tert-Butyl ethyl ether (ETBE)	0.11	<4.32	<4.14	<4.44	<7.61	NA
Diisopropyl ether (DIPE)	7.96	<4.32	<4.14	<4.44	<7.61	NA
TPH-GRO	383	592	1,020	558	2,430	205
TPH-DRO	4,140	117	64.8	74.8	552	105
TPH-ORO	50,800	<74.6	<74.9	<74.9	3,530	225
Total Lead	260	NA	NA	NA	21.2	16.3

*Default Target Levels, Table 3-1, MRBCA Process Document, Janary 2004 (Revised March 2, 2005).

**Sample Waste5-East was also analyzed for PAHs (all non-detect).

NA = Not Analyzed.

NOTE: Landfill sample was analyzed using Methods OA1 and OA2.

UNDERGROUND STORAGE TANK CLOSURE NOTICE

SITE NO.:	SUBMITTAL DATE:	PREPARED BY:

Facility Information

Name: Zill Inc.

Address: 3816 East 31st Street KCMO 64123

County: Jackson

Phone number (if applicable):

APPROVED

UST Owner Information

Name:

Address: Imtiez Moknijia

3816 E. 31st St. KCMO 64123

Phone number:

Email: 816 510 0457

Party performing Closure

Name:

Address: Rick's Petro Service

1609 SW 20th Street Blue Springs, Mo 64015

Phone number

Email: 816 536 8029

Contact Person:

CERTIFICATION OF PROPER CLOSURE

I certify that API RP-1604 and Missouri DNR procedures will be followed for safety, excavation, handling and disposal of soils and/or other materials; and that soils from beneath the tanks, distribution lines and pump islands will be analyzed in accordance with the requirements outlined in the UST Closure Guidance Document.

Signature of Party Performing Closure / Owner — 08/18/06 Date

DNR REVIEW

Closure activities may begin three days after contacting the Tanks Section at 573-751-6822

A final closure report shall be submitted to MDNR within 60 days of tank closure.

Signature of Authorized DNR Representative — 8/25/06 Date

RETURN TO:

Missouri Department of Natural Resources, Hazardous Waste Program, Tanks Section, P. O. Box 176, Jefferson City, MO 65102.

UNDERGROUND STORAGE TANK CLOSURE NOTICE

SITE NO.:	SUBMITTAL DATE:	PREPARED BY:

USTs CLOSED

Tank ID	Product Stored	Capacity (gallons)	Installation Date	UST Construction Material	Active	Date Removed from Service (Use)	Proposed Method of Closure*
#1 Unlead		10,000	n/a	steel	☒ Yes ☐ No	removal	
#2 unlead		10,000	n/a	steel	☐ Yes ☐ No ☒ Yes ☐ No ☐ Yes ☐ No	removal	
#3 diesel		4,000	n/a	steel	☐ Yes ☐ No ☐ Yes ☐ No ☒ Yes ☐ No	removal	
					☐ Yes ☐ No		
					☐ Yes ☐ No		
					☐ Yes ☐ No		

* R - Removal, I - In-place.

USER REGISTRATION

Are USTs registered? ☒ YES ☐ NO

Are closed USTs going to be replaced with new USTs? ☒ YES ☐ NO

Mandatory Attachments: A site map showing current and former tank (ASTs and USTs) location, piping, and dispensers.

RETURN TO:

Missouri Department of Natural Resources, Hazardous Waste Program, Tanks Section, P. O. Box 176, Jefferson City, MO 65102.

MISSOURI PST INSURANCE FUND

MATT BLUNT
GOVERNOR

WILLIAMS & COMPANY CONSULTING, INC.
THIRD PARTY ADMINISTRATOR

September 13, 2006

Mr. Imtiaz Moknijia
Zill, Inc.
3816 31st Street
Kansas City, MO 64128

RE: Inner City Service Station, 3814 East 31st Street, Kansas City, MO
Policy 0008310, Claim 62330

Dear Mr. Moknijia:

We have reviewed a cost estimate dated August 5, 2006 submitted on your behalf by Rick's Petro Service. The estimate is for cleanup costs you may incur during UST closure activities at the referenced location. The following cost approval is valid for a period of one year from the date of this letter. Please contact our office if the work will not be completed within this timeframe.

This approval is based upon the removal of petroleum-contaminated fill material from the tank pit and piping runs. Please note that UST closures must follow the guidelines established in the Missouri Risk-Based Corrective Action (MRBCA) Guidance Document.

Your consultant should first determine the appropriate land use designation for the site to determine the appropriate risk-based target levels. Please note that costs for excavation of native soils outside the tank pit and piping runs will not be recognized for reimbursement unless specifically approved by this office in coordination with our field adjuster. If your consultant has questions regarding the procedures, please have them contact this office or the Department of Natural Resources (DNR).

The quantity of contaminated soil must be documented. Fill material that is potentially impacted and non-impacted must be segregated. Non-impacted pit fill material may be replaced in the pit as backfill when pit wall/floor sampling is complete. A sufficient number of soil samples must be collected and analyzed by a laboratory to demonstrate that the level of contamination is such that cleanup is required. Soil samples solely for the purpose of demonstrating the necessity for off-site disposal may be analyzed using the OA1/OA2 analytical methods. All other samples during closure must follow the sampling protocols outlined in Table 5-1 of the MRBCA Guidance Document. To avoid disputes or misunderstandings that may affect reimbursement, please have your contractor coordinate this documentation with our on-site adjuster. In addition, please analyze 30% of the wall and bottom samples with the highest TPH-DRO/ORO levels for PAH's by SW-846 8270C.

The estimated costs are reasonable, except for the hauling of contaminated soils and soil management (stockpiling). Actual and reasonable costs incurred will be recognized as follows:

- Excavation and loading of contaminated soil, costs not to exceed $8.00 to 9.00 per ton
- Replacement with clean backfill, costs not to exceed $10.00 to $13.74 per ton (invoice documenting actual backfill cost is required – *reasonable* consultant markup is allowed)
- Hauling to the Courtney Ridge Landfill, costs not to exceed $6.00 to $8.00 per ton
- Disposal of contaminated soil at the Courtney Ridge Landfill, costs not to exceed $14.51 per ton (based on actual landfill invoices without markup)
- Laboratory analytical costs, based on actual laboratory invoices (without markup)

- Removal and disposal of contaminated water, based on reasonable time and materials basis
- Actual and reasonable time and material costs will be recognized for project management, sampling and reporting.

NOTE: THE BACKUP INVOICE(S) DOCUMENTING THE ACTUAL CONSULTANT'S COST FOR BACKFILL IS REQUIRED

If it is necessary to remove water from the excavation, your contractor must test the water without delay to determine the most economical disposal or treatment alternative. The contractor must document whether the local POTW will accept the water, and under what conditions. The contractor is expected to containerize water on-site if needed, while evaluating water disposal or treatment alternatives. The most economical disposal method is normally disposal at the local POTW, or hauling to the nearest POTW that will accept the water, as far as the nearest major metropolitan area. To obtain full reimbursement, the contractor must demonstrate that the most economical disposal alternative is used, and that subcontractor pricing, as well as contractor pricing and markups are competitive. Such pricing should be reviewed with and documented by our adjuster or this office before proceeding. ***Please note that rental fees for poly tanks or other containers that approach the reasonable purchase price will not be recognized.***

Removal and replacement of paving over the UST pit, pump islands, and/or piping runs is not an eligible expense. In the event that removal and replacement of paving over contaminated soil outside the UST pit area is warranted, those costs are eligible. Reimbursement for paving replacement will be on a depreciated basis, and will take into account the age and condition of the paving removed. Costs for hauling and disposal of the paving are not eligible.

Please coordinate with our adjuster (prior to removing paving) to document the age and condition of any paving for which replacement costs may be eligible. Competitive bids are required to document a fair and reasonable price is being paid. Markup and management costs for paving will not be recognized.

The PSTIF adjuster for this project is Stephanie Harris-Carr. Please contact her at (877) 269-0194 at least five days prior to the start of work, so that he can be on-site during the project. Failure to contact the adjuster to be on site could result in a reduction or denial of benefits. If additional work is required beyond the approved scope of work, you must obtain our cost pre-approval or the additional costs may not be recognized.
The PSTIF reserves the right to deny all or part of the costs based upon our investigation of the tank removal project. It is your responsibility to understand what you must do to document your claim. The claim form, payment request form and regulations are available on the Internet at www.pstif.org.

If you have any questions, please call me at (877) 269-0194.

Sincerely,
WILLIAMS & COMPANY CONSULTING, INC.

J. A. Humenik

Jeffrey A. Humenik, RG
Senior Project Manager

JAH/kbk

C: Tim Chibnall, DNR
Stephanie Harris-Carr, Williams & Company Consulting, Inc
Rick Cherry, Rick's Petro Service

MISSOURI
PST INSURANCE FUND

MATT BLUNT
GOVERNOR

WILLIAMS & COMPANY CONSULTING, INC.
THIRD PARTY ADMINISTRATOR

October 18, 2006

Mr. Imtiaz Moknijia
Zill, Inc.
3816 31st Street
Kansas City, MO 64128

RE: Inner City Service Station, 3814 East 31st Street, Kansas City, MO
Policy 0008310, Claim 62330

Dear Mr. Moknijia:

We have reviewed a cost estimate submitted on your behalf by MHS Environmental, Inc., Inc., in their revised letter dated October 18, 2006. The estimate is additional site characterization, a bedrock evaluation, and reporting.

The estimated costs appear reasonable. Total necessary and reasonable costs **not to exceed $4,910.00 on a time and materials basis** will be recognized for completion of the above-mentioned scope of work. The Missouri Petroleum Storage Tank Insurance Fund (PSTIF) does not recognize markup on costs for analytical laboratory, push-probe or drilling work. The PSTIF reserves the right to deny all or part of the costs based upon our investigation. **It is your responsibility to understand what you must do to document your claim.** The claim form, payment request form and regulations are available on the Internet at www.pstif.org.

The adjuster assigned to this claim is Stephanie Harris-Carr. Please contact her at (877) 269-0194 at least five (5) days prior to the start of field activities.

If you have any questions, please contact our office at (877) 269-0194.

Sincerely,
WILLIAMS & COMPANY CONSULTING, NC.

J. A. Humenik

Jeffrey A. Humenik, RG
Senior Project Manager

JAH/kbk

C: Tim Chibnall, DNR
Stephanie Harris-Carr, Williams & Company Consulting, Inc.
Mark Schultz, MHS Environmental, Inc.

ALLIED WASTE

GENERATOR WASTE PROFILE SHEET

Waste Profile #
F48X612R0

#526

Requested Disposal Facility: Courtney Ridge
an Allied Waste Company

Date: 9-29-06

I. Generator Information

Generator Name: Zill LLC
Generator Site Address: 3814 E 31st Street
City: Kansas City | County: Jackson | State: MO | Zip: 64128
Generator State ID Number: | SIC Code Number:
Generator Mailing Address (if different):
City: | County: | State: | Zip:
Generator Contact Name: IMT/AZ MOKM
Phone Number: 816-510-0457 | Fax Number:

II. Transporter Information

Transporter Name: Rick's Petro Service
Transporter Address: 1609 SW 20th St
City: Blue Springs | County: Jackson | State: MO | Zip: 64015
Transporter Contact Name: Rick Cherry
Phone Number: 816 536-8029 | Fax Number: 816 229 9401
State Transportation Number:

III. Waste Stream Information

Name of Waste: Unleaded Gasoline/Diesel Impacted Soil
Process Generating Waste: Fuel Retail Facility - UST
Type of Waste: ☐ INDUSTRIAL PROCESS WASTE or ☒ POLLUTION CONTROL WASTE
Physical State: ☒ SOLID ☐ SEMI-SOLID ☐ POWDER ☐ LIQUID ☐ OTHER:
Method of Shipment: ☒ BULK ☐ DRUM ☐ BAGGED ☐ OTHER:
Estimated Annual Volume: ☒ CUBIC YARDS: 400 ☐ TONS: ☐ OTHER:
Frequency: ☒ ONE TIME ☐ DAILY ☐ WEEKLY ☐ MONTHLY ☐ OTHER:
Special Handling Instructions: ☐ NO SAMPLE TAKEN

IV. Representative Sample Certification

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(f) guidelines or equivalent rules? ☒ YES or ☐ NO
Sample Date: 9-26-06 | Type of Sample: ☐ COMPOSITE SAMPLE ☒ GRAB SAMPLE
Sampler's Employer: MHS Environmental Inc
Sampler's Name (printed): Mark H. Schulze | Signature: Mark H Schulze

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© Allied Waste, August 2000

ALLIED WASTE

GENERATOR WASTE PROFILE SHEET (continued)

Waste Profile #
F48Y612190

V. Physical Characteristics of Waste

Characteristic Components	% by Weight (range)
1. Soil	≥ 98%
2. Unleaded gas	< 1%
3. Diesel	< 1%

Color:	Odor (describe):	Free Liquids:	% Solids:	pH:	Flash Point:	Phenol
Gray Brown	Slight Pre Hydrocarbons	☐ YES or ☒ NO Content ___ %	100		___ °F	___ ppm

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Required Parameters Provided for this Profile

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ YES or ☒ NO
Does this waste or generating process cause it to exceed OSHA exposure limits from high levels of Hydrogen Sulfide or Hydrogen Cyanide as defined in 40 CFR 261.23?	☐ YES or ☒ NO
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ YES or ☒ NO
Does this waste contain regulated concentrations of listed hazardous waste defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ YES or ☒ NO
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	☐ YES or ☒ NO
Is this a regulated Toxic Material as defined by Federal and/or State regulations?	☐ YES or ☒ NO
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ YES or ☒ NO
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ YES or ☒ NO
Is this waste generated at a Federal Superfund Clean Up Site?	☐ YES or ☒ NO

VI. Generator Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as trade waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the Company has not altered the form or content of this profile sheet as provided by Allied Waste Industries, Inc.

Rick Cherry — AUTHORIZED REPRESENTATIVE NAME AND TITLE (Printed)

Rick's Petro Service — COMPANY NAME

[signature] — AUTHORIZED REPRESENTATIVE SIGNATURE

9/29/06 — DATE

BEST COPY AVAILABLE

VII. Allied Waste Decision

☒ Approved ☐ Rejected Expiration: 1/27/07

Conditions:

The City of Sugar Creek has issued an Approval for: Virgin Gasoline/Diesel Impacted Soil generated by Zill, LLC. (Case # 59-06)
The approval expires: January 27, 2007

Mark Phillips, Special Waste Analyst — Name, Title

[signature] — Signature

10/2/06 — Date

© Allied Waste, August 2000

CITY OF SUGAR CREEK

103 South Sterling • Sugar Creek, Missouri 64054

September 29, 2006

Courtney Ridge Landfill LLC
Nancy Hardin
1701 N. M-291 Hwy
Sugar Creek, Missouri 64058

According to the procedures adopted at the February 24, 1997 council meeting, this letter constitutes approval from the City of Sugar Creek to handle and dispose of special waste, commonly know as VIRGIN GASOLINE/DIESEL IMPACTED SOIL, generated by ZILL, LLC, Case #59-06.

The City of Sugar Creek did not investigate this waste stream beyond the information provided on the application, and therefore it shall be the responsibility of Allied Waste Services of Kansas City to guarantee that the waste stream and handling procedures remain in compliance throughout the term of this permit.

This permit is subject to the following conditions:

1. The disposal of special waste shall be a One Time Event.
2. The term of this permit shall be 120-days and it shall expire on January 27, 2007.
3. The special waste stream characteristics shall not change.
4. The waste stream underlined above shall be subject to audit by the City of Sugar Creek and Courtney Ridge Landfill LLC shall pay all costs related to such audit.

Should you have any questions regarding this permit, please contact my office at 252-4400, ext. 137.

Sincerely,

Elizabeth Arasmith

Elizabeth Arasmith, EIT
Planning Engineer

COURTNEY RIDGE LANDFILL
1701 NORTH M-291 HIGHWAY

SUGAR CREEK, MO 64058
( ) -
TO:

INVOICE

INVOICE NO. 005013 F48
PAGE 1
DATE Oct-15-06
CUSTOMER NO. 008161
SITE NO.
REFERENCE NO.

RICK'S PETRO SERVICE
1609 SW 20TH
ATTN: ACCOUNTS PAYABLE
BLUE SPRINGS, MO 64015

SERVICE DATE	CODE	DESCRIPTION		REFERENCE	QTY		AMOUNT
30 Sep		Balance forward					$50.00
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328265 0	14.14	TN	$168.13
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328265 1	1.00	LD	$5.00
03 Oct	1	FUEL RECOVERY FEE	$7.25	01 - 328265 2	1.00	LD	$7.25
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328266 0	16.95	TN	$201.54
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328266 1	1.00	LD	$5.00
03 Oct	1	FUEL RECOVERY FEE	$8.69	01 - 328266 2	1.00	LD	$8.69
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328273 0	14.25	TN	$169.43
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328273 1	1.00	LD	$5.00
03 Oct	1	FUEL RECOVERY FEE	$7.30	01 - 328273 2	1.00	LD	$7.30
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328275 0	13.69	TN	$162.77
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328275 1	1.00	LD	$5.00
03 Oct	1	FUEL RECOVERY FEE	$7.02	01 - 328275 2	1.00	LD	$7.02
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328294 0	15.72	TN	$186.91
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328294 1	1.00	LD	$5.00
03 Oct	1	FUEL RECOVERY FEE	$8.06	01 - 328294 2	1.00	LD	$8.06
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328298 0	15.93	TN	$189.41
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328298 1	1.00	LD	$5.00
03 Oct	1	FUEL RECOVERY FEE	$8.16	01 - 328298 2	1.00	LD	$8.16
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328303 0	17.92	TN	$213.07
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328303 1	1.00	LD	$5.00
03 Oct	1	FUEL RECOVERY FEE	$9.18	01 - 328303 2	1.00	LD	$9.18
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328309 0	15.90	TN	$189.05
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328309 1	1.00	LD	$5.00
03 Oct	1	FUEL RECOVERY FEE	$8.15	01 - 328309 2	1.00	LD	$8.15
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328322 0	16.17	TN	$192.26
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328322 1	1.00	LD	$5.00

Payment due upon receipt of this invoice. 1.5% per month (18% per annum) late charge on balances over 30 days from date of invoice.
Payments received after invoice date are not reflected.
To ensure proper credit, please include your account number on your check and include the bottom portion of this invoice. When making payment on multiple accounts, please include the account numbers and the amounts of payment.

Account Status

CURRENT	31 - 60 DAYS	61 - 90 DAYS	OVER 90 DAYS

TOTAL THIS INVOICE

PLEASE PAY THIS AMOUNT

We reserve the right to suspend service without notice on any past due account.

Please remit to:

INVOICE NO.
PAGE
DATE
CUSTOMER NO.
SITE NO.
REFERENCE NO.
REMARKS

AMOUNT OF REMITTANCE

PLEASE RETURN THIS PORTION WITH REMITTANCE

Form # 401 Re-order from BPI Print & Promotion Solutions Ph: (519) 681-8444 Fax: (519) 681-1367 (866) 254-9784 e-mail: info@bpiontario.com

COURTNEY RIDGE LANDFILL
1701 NORTH M-291 HIGHWAY

SUGAR CREEK, MO 64058

( ) -

TO:

RICK'S PETRO SERVICE
1609 SW 20TH
ATTN: ACCOUNTS PAYABLE
BLUE SPRINGS, MO 64015

INVOICE

INVOICE NO.	005013	F48
PAGE	3	
DATE	Oct-15-06	
CUSTOMER NO.	008181	
SITE NO.		
REFERENCE NO.		

SERVICE DATE	CODE	DESCRIPTION		REFERENCE	QTY.		AMOUNT
03 Oct	)1	FUEL RECOVERY FEE	$7.93	01 - 328379 2	1.00	LD	$7.93
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328386 0	15.53	TN	$184.65
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328386 1	1.00	LD	$5.00
03 Oct	)1	FUEL RECOVERY FEE	$7.96	01 - 328386 2	1.00	LD	$7.96
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328397 0	14.79	TN	$175.85
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328397 1	1.00	LD	$5.00
03 Oct	)1	FUEL RECOVERY FEE	$7.58	01 - 328397 2	1.00	LD	$7.58
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328407 0	13.36	TN	$158.85
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328407 1	1.00	LD	$5.00
03 Oct	)1	FUEL RECOVERY FEE	$6.85	01 - 328407 2	1.00	LD	$6.85
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328410 0	15.88	TN	$188.81
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328410 1	1.00	LD	$5.00
03 Oct	)1	FUEL RECOVERY FEE	$8.14	01 - 328410 2	1.00	LD	$8.14
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328411 0	13.75	TN	$163.49
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328411 1	1.00	LD	$5.00
03 Oct	)1	FUEL RECOVERY FEE	$7.05	01 - 328411 2	1.00	LD	$7.05
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328428 0	15.25	TN	$181.32
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328428 1	1.00	LD	$5.00
03 Oct	)1	FUEL RECOVERY FEE	$7.81	01 - 328428 2	1.00	LD	$7.82
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328433 0	17.78	TN	$211.40
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328433 1	1.00	LD	$5.00
03 Oct	)1	FUEL RECOVERY FEE	$9.11	01 - 328433 2	1.00	LD	$9.11
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328437 0	15.16	TN	$180.25
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328437 1	1.00	LD	$5.00
03 Oct	)1	FUEL RECOVERY FEE	$7.77	01 - 328437 2	1.00	LD	$7.77
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328440 0	14.96	TN	$177.87
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328440 1	1.00	LD	$5.00

Payment due upon receipt of this invoice. 1.5% per month (18% per annum) late charge on balances over 30 days from date of invoice.
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Account Status

CURRENT	31 - 60 DAYS	61 - 90 DAYS	OVER 90 DAYS

TOTAL THIS INVOICE

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Please remit to:

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AMOUNT OF REMITTANCE

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Form # 401 No. order from BPI Print & Promotion Solutions Tel. (519) 661-8444 Fax. (519) 661-1067 (800) 254-8794 e-mail: info@bpisolutions.com

COURTNEY RIDGE LANDFILL
1701 NORTH M-291 HIGHWAY

SUGAR CREEK, MO 64058
( ) -
TO.

INVOICE

INVOICE NO. 005013 F48
PAGE 2
DATE Oct-15-06
CUSTOMER NO. 008161
SITE NO.
REFERENCE NO.

RICK'S PETRO SERVICE
1609 SW 20TH
ATTN: ACCOUNTS PAYABLE
BLUE SPRINGS, MO 64015

SERVICE DATE	CODE	DESCRIPTION	REFERENCE	QTY	AMOUNT
03 Oct	)1	FUEL RECOVERY FEE	$8.29 01 - 328322 2	1.00 LD	$8.29
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328325 0	14.55 TN	$173.00
03 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328325 1	1.00 LD	$5.00
03 Oct	)1	FUEL RECOVERY FEE	$7.46 01 - 328325 2	1.00 LD	$7.46
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328331 0	18.60 TN	$221.15
03 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328331 1	1.00 LD	$5.00
03 Oct	)1	FUEL RECOVERY FEE	$9.53 01 - 328331 2	1.00 LD	$9.53
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328340 0	14.39 TN	$171.10
03 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328340 1	1.00 LD	$5.00
03 Oct	)1	FUEL RECOVERY FEE	$7 37 01 - 328340 2	1.00 LD	$7.37
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328350 0	15.81 TN	$187.98
03 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328350 1	1.00 LD	$5.00
03 Oct	)1	FUEL RECOVERY FEE	$8.10 01 - 328350 2	1.00 LD	$8.10
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328351 0	16.14 TN	$191.91
03 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328351 1	1.00 LD	$5.00
03 Oct	)1	FUEL RECOVERY FEE	$8.27 01 - 328351 2	1.00 LD	$8.27
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328356 0	18.33 TN	$217.94
03 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328356 1	1.00 LD	$5.00
03 Oct	)1	FUEL RECOVERY FEE	$9.39 01 - 328356 2	1.00 LD	$9.39
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328363 0	15.86 TN	$188.58
03 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328363 1	1.00 LD	$5.00
03 Oct	)1	FUEL RECOVERY FEE	$8.13 01 - 328363 2	1.00 LD	$8.13
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328378 0	14.58 TN	$173.36
03 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328378 1	1.00 LD	$5.00
03 Oct	)1	FUEL RECOVERY FEE	$7.47 01 - 328378 2	1.00 LD	$7.47
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328379 0	15.48 TN	$184.06
03 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328379 1	1 00 LD	$5.00

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Form # 401 Re - order from BFI Print & Promotion Solutions Tel: (519) 681-6444 Fax: (519) 681-1367 (888) 284-8784 e-mail: info@bfisolutions.com

COURTNEY RIDGE LANDFILL
1701 NORTH M-291 HIGHWAY

SUGAR CREEK, MO 64058
( ) -
TO:

INVOICE

INVOICE NO. 005013 F48
PAGE 4
DATE Oct-15-06
CUSTOMER NO. 008161
SITE NO.
REFERENCE NO.

RICK'S PETRO SERVICE
1609 SW 20TH
ATTN: ACCOUNTS PAYABLE
BLUE SPRINGS, MO 64015

SERVICE DATE	CODE	DESCRIPTION		REFERENCE	QTY		AMOUNT
03 Oct	}1	FUEL RECOVERY FEE	$7.67	01 - 328440 2	1.00	LD	$7.67
03 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328442 0	15.23	TN	$181.09
03 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328442 1	1.00	LD	$5.00
03 Oct	}1	FUEL RECOVERY FEE	$7.80	01 - 328442 2	1.00	LD	$7.81
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328482 0	13.35	TN	$158.73
04 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328482 1	1.00	LD	$5.00
04 Oct	}1	FUEL RECOVERY FEE	$8.84	01 - 328482 2	1.00	LD	$8.84
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328483 0	15.00	TN	$178.35
04 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328483 1	1.00	LD	$5.00
04 Oct	}1	FUEL RECOVERY FEE	$7.69	01 - 328483 2	1.00	LD	$7.69
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328484 0	14.58	TN	$173.12
04 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328484 1	1.00	LD	$5.00
04 Oct	}1	FUEL RECOVERY FEE	$7.46	01 - 328484 2	1.00	LD	$7.46
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328487 0	21.57	TN	$256.47
04 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328487 1	1.00	LD	$5.00
04 Oct	}1	FUEL RECOVERY FEE	$11.05	01 - 328487 2	1.00	LD	$11.05
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328502 0	14.54	TN	$172.88
04 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328502 1	1.00	LD	$5.00
04 Oct	}1	FUEL RECOVERY FEE	$7.45	01 - 328502 2	1.00	LD	$7.45
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328505 0	15.46	TN	$183.82
04 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328505 1	1.00	LD	$5.00
04 Oct	}1	FUEL RECOVERY FEE	$7.92	01 - 328505 2	1.00	LD	$7.92
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328509 0	15.98	TN	$190.00
04 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328509 1	1.00	LD	$5.00
04 Oct	}1	FUEL RECOVERY FEE	$8.19	01 - 328509 2	1.00	LD	$8.19
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89	01 - 328512 0	21.50	TN	$255.64
04 Oct	0	ENVIRONMENTAL FEE	$5.00	01 - 328512 1	1.00	LD	$5.00

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TOTAL THIS INVOICE

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Form 1451 - For order from BIS Print & Production Solutions Tel (319) 881-6444 Fax (319) 881-1367 (800) 254-6784 e-mail info@bisolutions.com

COURTNEY RIDGE LANDFILL
1701 NORTH M-291 HIGHWAY

SUGAR CREEK, MO 64058
( ) -
TO

INVOICE

INVOICE NO. 005013 F48
PAGE 5
DATE Oct-15-06
CUSTOMER NO. 008161
SITE NO.
REFERENCE NO.

RICK'S PETRO SERVICE
1609 SW 20TH
ATTN: ACCOUNTS PAYABLE
BLUE SPRINGS, MO 64015

SERVICE DATE	CODE	DESCRIPTION	REFERENCE	QTY	AMOUNT
04 Oct	}1	FUEL RECOVERY FEE	$11.02 01 - 328512 2	1.00 LD	$11.02
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328526 0	14.80 TN	$175.97
04 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328526 1	1.00 LD	$5.00
04 Oct	}1	FUEL RECOVERY FEE	$7.58 01 - 328526 2	1.00 LD	$7.58
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328532 0	13.65 TN	$162.30
04 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328532 1	1.00 LD	$5.00
04 Oct	}1	FUEL RECOVERY FEE	$7.00 01 - 328532 2	1.00 LD	$7.00
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328534 0	14.33 TN	$170.38
04 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328534 1	1.00 LD	$5.00
04 Oct	}1	FUEL RECOVERY FEE	$7.34 01 - 328534 2	1.00 LD	$7.34
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328542 0	19.70 TN	$234.23
04 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328542 1	1.00 LD	$5.00
04 Oct	}1	FUEL RECOVERY FEE	$10.10 01 - 328542 2	1.00 LD	$10.10
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328558 0	15.13 TN	$179.90
04 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328558 1	1.00 LD	$5.00
04 Oct	}1	FUEL RECOVERY FEE	$7.75 01 - 328558 2	1.00 LD	$7.75
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328563 0	13.59 TN	$161.59
04 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328563 1	1.00 LD	$5.00
04 Oct	}1	FUEL RECOVERY FEE	$6.96 01 - 328563 2	1.00 LD	$6.97
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328568 0	14.51 TN	$172.52
04 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328568 1	1.00 LD	$5.00
04 Oct	}1	FUEL RECOVERY FEE	$7.44 01 - 328568 2	1.00 LD	$7.44
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328577 0	19.01 TN	$226.03
04 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328577 1	1.00 LD	$5.00
04 Oct	}1	FUEL RECOVERY FEE	$9.74 01 - 328577 2	1.00 LD	$9.74
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328591 0	12.06 TN	$143.39
04 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328591 1	1.00 LD	$5.00

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AMOUNT OF REMITTANCE

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COURTNEY RIDGE LANDFILL
1701 NORTH M-291 HIGHWAY

SUGAR CREEK, MO 64058
( ) -
TO:

INVOICE

RICK'S PETRO SERVICE
1609 SW 20TH
ATTN: ACCOUNTS PAYABLE
BLUE SPRINGS, MO 64015

INVOICE NO.	005013 F48
PAGE	6
DATE	Oct-15-06
CUSTOMER NO.	006161
SITE NO.	
REFERENCE NO.	$11,950.12

SERVICE DATE	CODE	DESCRIPTION	REFERENCE	QTY	AMOUNT
04 Oct	)1	FUEL RECOVERY FEE	$6.18 01 - 328591 2	1.00 LD	$6.18
04 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 328596 0	11.55 TN	$137.33
04 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 328596 1	1.00 LD	$5.00
04 Oct	)1	FUEL RECOVERY FEE	$5.92 01 - 328596 2	1.00 LD	$5.92
13 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 329864 0	15.37 TN	$182.75
13 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 329864 1	1.00 LD	$5.00
13 Oct	)1	FUEL RECOVERY FEE	$7.88 01 - 329864 2	1.00 LD	$7.88
13 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 329865 0	12.33 TN	$146.60
13 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 329865 1	1.00 LD	$5.00
13 Oct	)1	FUEL RECOVERY FEE	$6.32 01 - 329865 2	1.00 LD	$6.32
13 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 329905 0	17.48 TN	$207.60
13 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 329905 1	1.00 LD	$5.00
13 Oct	)1	FUEL RECOVERY FEE	$8.95 01 - 329905 2	1.00 LD	$8.95
13 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 329928 0	14.39 TN	$171.10
13 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 329928 1	1.00 LD	$5.00
13 Oct	)1	FUEL RECOVERY FEE	$7.37 01 - 329928 2	1.00 LD	$7.37
13 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 329932 0	18.49 TN	$219.85
13 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 329932 1	1.00 LD	$5.00
13 Oct	)1	FUEL RECOVERY FEE	$9.48 01 - 329932 2	1.00 LD	$9.48
13 Oct	VH	SW-CONT SOIL W/FUEL	$11.89 01 - 329958 0	11.00 TN	$130.79
13 Oct	0	ENVIRONMENTAL FEE	$5.00 01 - 329958 1	1.00 LD	$5.00
13 Oct	)1	FUEL RECOVERY FEE	$5.64 01 - 329958 2	1.00 LD	$5.64
15 Oct	Z8	ADMINISTRATION FEE	$1.30 1665	1.00	$1.30
		MISSOURI STATE FEES			$1,699.46

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$12,000.12	$0.00	$0.00	$0.00

TOTAL THIS INVOICE $11,950.12

PLEASE PAY THIS AMOUNT $12,000.12

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COURTNEY RIDGE LANDFILL
1701 NORTH M-291 HIGHWAY

SUGAR CREEK, MO 64058

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INVOICE NO.	005013
PAGE F48	6
DATE	Oct-15-06
CUSTOMER NO.	006161
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REMARKS	

Form # 481 Re-order from BIR Print & Promotion Solutions Tel: (319) 861-6444 Fax: (319) 861-1387 (888) 254-6784 e-mail: info@birsolutions.com

DISPOSAL CERTIFICATE
FOR
UNDERGROUND FUEL TANKS

This 2-10,000 gls / 1-4,000 Dbl gallon storage tank, Serial # None

was removed from 3816 E 31ST facility located at:

The tank was removed on 9/27/06 and transported to

TTD
Langley Recyclers
3501 [redacted] Raytown Road
Kansas City, Missouri

The receiving agency will dispose of this tank by disassembling tank to pieces small enough to be handled as salvage. If any contents are removed, they will then be given to removal contractor for proper disposal.

In regards to the above mentioned abandonment or disposal of tank/tanks, Tennyson Tank Disposal, Inc. assumes no environmental liability for any of the above referenced items

Ricks Petro — Date
Removal Contractor

TENNYSON TANK DISPOSAL — 9/27/06 — [signature]
Receiving Agency — Date

Bedrock Evaluation

Former Inner City Oil (Zill, Inc.)
3814 East 31st Street
Kansas City, MO
ST 8310

The three USTs were closed by removal at the above referenced facility during the week of September 25, 2006. Following removal of the USTs and excavation of the backfill material, it became apparent that the tanks had been installed on bedrock. The presence of bedrock during a UST closure requires that a geologist registered in the State of Missouri conduct a bedrock evaluation.

Based on observations from the sidewalls of the pit, silty clay was present from the ground surface (beneath the cement pavement) to the top of the bedrock. It is probable that it was necessary to remove some top-surface bedrock to obtain the depth needed for installation of the USTs. This is evidenced by the presence of bedrock on the pit sidewalls above the total excavation depth. The depth to the top of the bedrock, as measured on the pit sidewalls varied from 10 to 10.5 feet and was closer to 11 feet along the north wall.

A trackhoe was used to excavate the surface layer of bedrock to a total depth of 11.5 to 12 feet. This was necessary to install the new USTs. An attempt to clear and view the bedrock surface was attempted within the pit by lowering a mini-loader (bobcat type vehicle) into the excavation. The mini-loader was used to scrape the bottom surface and move the loose soil/fractured rock material to the south end of the pit for removal by the trackhoe. Due to the clay present within the fractures of the upper layer of the excavated rock, an overburden-free and clean area of the pit floor was not obtainable. The original pit was enlarged slightly on the south and west sides to accommodate the larger tanks. **Photographs of the bedrock exposed during the expansion of the pit and of the excavation during the UST closure activities are attached to the UST Closure Report as part of this document.** Groundwater was not encountered during the UST closure activities. A small volume of water did enter the pit from the northeast corner. This was water that was trapped within the high-porosity backfill located immediately below the concrete pavement in this area.

The native, unconsolidated soil was described as silty clay, varied in color from brown to dark gray, moist to very moist, medium to stiff consistency and low plasticity. Generally, the thickness of the soil within the tank pit ranged from about 10 to 10.5 feet below ground surface (bgs). The soil was classified as "CL" using the unified classification system indicating low plasticity, inorganic clay.

The top portion of bedrock was fractured and weathered, consisting of limestone. Fractures within this zone had filled with the overlying clay. The fractured portion of bedrock varied slightly in thickness but appeared to be less than 2 feet based on sidewall observations. The competent bedrock consisted of limestone, buff colored, fine-grained to crystalline, slight to no weathering and very strong. Vertical fractures were not observed in the area of the tank pit. Slope of the rock appeared to be slight

and in the north direction. Additional research indicated that the bedrock is likely part of the Raytown Limestone Member of the Chanute Shale Formation, Kansas City Group of the Pennsylvanian System. Generally, the Kansas City Group is composed of alternating limestone and shale members. No karst development was noted at the site.

Groundwater

A well search was requested from the Geological Survey and Resource Assessment Division of the Missouri Department of Natural Resources. The search included a nine square mile area near the site. Ninety-three monitoring wells were identified within the search area. No water supply wells were identified within this same area. Depth of the monitoring wells, when reported, ranged from 7 to 35 feet bgs. Though the specific well logs were not reviewed during the search, it is likely that these monitoring wells were installed above or near the bedrock surface. This indicates the presence of groundwater on top of bedrock in the local area though none was observed beneath the study site. Groundwater on top of bedrock would flow in the direction of the slope of bedrock in the immediate area. A copy of the results of the well search is attached.

Further research pertaining to the presence of groundwater in the site area included discussions with individuals familiar with the local hydrogeology and review of the Groundwater Atlas of the United States for the Kansas City area. Results from the data collected showed that the primary source of groundwater in the Kansas City area is the alluvial aquifer of the Missouri and Kansas Rivers. The City of Kansas City, Missouri supplies drinking water to residents and business within the city limits and surrounding areas; this includes the site area. The city withdraws water from both wells installed within the alluvial aquifer and surface water diversions located north of downtown, approximately three miles north of the site.

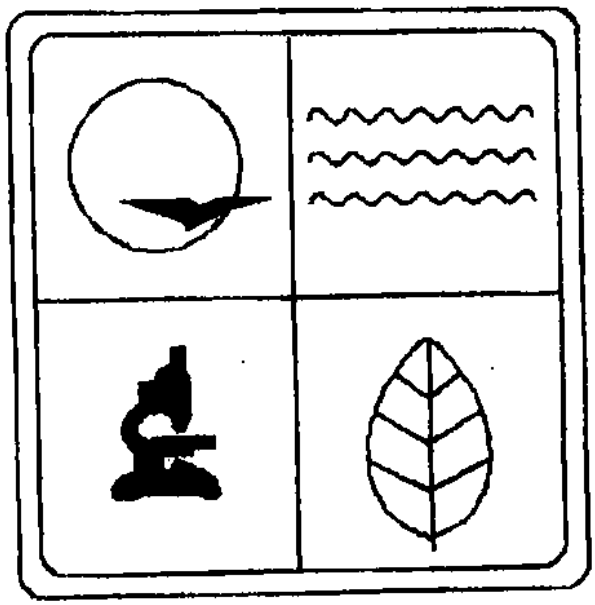
The Western Interior Plains Aquifer System is located beneath the site, sourced in Cambrian and Ordovician rock formations. Groundwater from this system in the Kansas City area however is high in dissolved solids and therefore not suitable for domestic use without expensive treatment. This is why the alluvial aquifer of the Missouri River is used as a supply source. Though water from the alluvial aquifer does require treatment, wells can be installed at relatively shallow depths with sufficient production rates attained as opposed to extensive bedrock drilling and well installation in the Cambrian and Ordovician strata.

The presence of any shallow bedrock wells could not be verified and no supply wells were identified within the area around the site. Given the depth to potable groundwater beneath the site (groundwater was not encountered during the closure activities above bedrock) and the presence of shallow bedrock, impact to a potable groundwater source from the overlying soil does not appear a realistic scenario.

12-8-06

Missouri Department of
NATURAL RESOURCES

FAX Transmittal Cover Sheet



DATE: March 21, 2005

TO: MARK SCHULTZ

CO.: MHS ENV

DEPT:

PHONE: (816)

FAX #: (816) 734-5021

FROM: Sharon Beistel
Wellhead Protection Section
Geological Survey and Resource Assessment Division
Missouri Department of Natural Resources
P.O. Box 250, Rolla, MO 65402
sharon.beistel@dnr.mo.gov

RECYCLED PAPER

PHONE: 573-368-2168

FAX: 573-368-2317

RE: Water Well Search Request

COMMENTS:
WELL SEARCH FOR T49N R33 SEC 15,16,17,20,21,22,27,28,29
ONLY MONITORING WELLS FOUND

Total number of pages sent was 7 (including this cover sheet). If not all pages are received, or if problems are experienced, please call: Sharon **@ 573/ 368-2168**

MO 780-1430 (10-93)

0023060A	M	2518 E 63RD ST KC		SUMMERS
0023061A	M	2518 E 63RD ST KC		SUMMERS
0023062A	M	2518 E 63RD ST KC		SUMMERS
0023222A	M	649 E BANNISTER RD, KC MO	CARTER COMPANIES	CARTER
0024486A	M	5060 OAK ST		PRYOR
0062187A	W		AMOCO OIL CO.	
0062831A	W		AMBASSADOR FOOD	
0107986A	M	3525 GARDNER,KANSAS CITY	G.E. SERVICE CENTER	
0115308A	M	LINWOOD & INDIANA,KANSAS CITY	KANSAS CITY SCHOOL DI	CENTRAL PK IMPRO
0115322A	M	LINWOOD & INDIANA,KANSAS CITY	KANSAS CITY SCHOOL DI	CENTRAL PK IMPRO
0115368A	M	LINWOOD & INDIANA,KANSAS CITY	KANSAS CITY SCHOOL DI	CENTRAL PK IMPRO
0115370A	M	LINWOOD & INDIANA , KANSAS CITY	KANSAS CITY SCHOOL DI	CENTRAL PK IMPRO
0121016A	M	3201 GILLHAM PLAZA,KANSAS CITY	JIFFY LUBE MW-1B	JIFFY LUBE
0121017A	M	3201 GILHAM PLAZA,KANSAS CITY	JIFFY LUBE MW-2B	JIFFY LUBE
0121024A	M	3201 GILHAM PLAZA,KANSAS CITY	JIFFY LUBE MW-3B	JIFFY LUBE
0121215A	M	2405 GRAND AVE SUITE 200 KC	CROWN CENTER REDEVE	
0121216A	M	2405 GRAND AVE SUITE 200 KC	CROWN CENTER REDEVE	
0121217A	M	2405 GRAND AVE SUITE 200 KC	CROWN CENTER REDEVE	
0121286A	M	1380 BRUSH CREEK,KANSAS CITY	SOUTHLAND CORP.	J'S PAWN & LOAN
0121287A	M	1380 BRUSH CREEK,KANSAS CITY	SOUTHLAND CORP.	J'S PAWN & LOAN
0121288A	M	1380 BRUSH CREEK,KANSAS CITY	SOUTHLAND CORP.	J'S PAWN & LOAN
0122887A	M	3215 MAIN,KANSAS CITY	AMOCO STATION # 5219	
0145399A	M		BEDROCK PARTNERS	BUKOWSKI
0145400A	M		BEDROCK PARTNERS	BUKOWSKI
0145401A	M		BEDROCK PARTNERS	BUKOWSKI
0145402A	M		BEDROCK PARTNERS	BUKOWSKI
0145403A	M	1 E 45TH STREET, K.C., MO 64111	BEDROCK PARTNERS, L.P	BUKOWSKI
0146349A	M	2921 MCGEE TRAFFIC WAY	HALLMARK CARDS INC	
0146350A	M	2921 MCGEE TRAFFICWAY	HALLMARK CARDS	
0146351A	M	2921 MCGEE TRAFFICWAY	HALLMARK CARDS	
0146353A	M	2921 MCGEE TRAFFICWAY	HALLMARK CARDS	
0160836A	M			SMITH
0160838A	M			SMITH

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4915 W 88TH ST	PRAIRIE VILLAGE	M	14	SE	SE	SE	28	49	33	840
4915 W 88TH ST	PRAIRIE VILLAGE	M	13	SE	SE	SE	28	49	33	840
4915 W 88TH ST	PRAIRIE VILLAGE	M	11.9	SE	SE	SE	28	49	33	840
100 NW PARKWAY	KANSAS CITY	M	14	SW	NE	SE	29	49	33	860
5824 CHERRY ST	KANSAS CITY	M	13.5	SE	SE	SW	29	49	33	850
8700 INDIAN CREEK	OVERLAND PARK	M	13		NE	NE	21	49	33	0
3269 ROANOKE RD	KANSAS CITY		10		SE	SW	16	49	33	0
3525 GARDNER	KANSAS CITY	M	24		SE	NW	27	49	33	0
1211 MCGEE ST.	KANSAS CITY	M	16			SE	15	49	33	0
1211 MCGEE ST.	KANSAS CITY	M	16			SE	15	49	33	0
1211 MCGEE ST.	KANSAS CITY	M	16			SE	15	49	33	0
1211 MCGEE ST.	KANSAS CITY	M	15			SE	15	49	33	0
3201 GILLHAM PLAZA	KANSAS CITY	M	25	SW	NW	SE	17	49	33	0
3201 GILLHAM PLAZA	KANSAS CITY	M	24	SW	NW	SE	17	49	33	0
3201 GILLHAM PLAZA	KANSAS CITY	M	23	SW	NW	SE	17	49	33	0
2837 MAIN ST	KANSAS CITY	M	10.5	SW	SW	NE	17	49	33	
2837 MAIN ST	KANSAS CITY	M	10.5	SW	NE	NW	17	49	33	
2837 MAIN ST	KANSAS CITY	M	13.4	SW	NE	NW	17	49	33	
PO BOX 711	DALLAS	M	15			NW	28	49	33	800
PO BOX 711	DALLAS	M	16			NW	28	49	33	800
PO BOX 711	DALLAS	M	16			NW	28	49	33	800
AMOCO OIL CO. KC	KANSAS CITY	M	7	SW	NE	SW	17	49	33	900
2200 ROSS AVE SUITE 4200	DALLAS	M	24				29	49	33	0
2200 ROSS AVE SUITE 4200	DALLAS	M	20				29	49	33	0
2200 ROSS AVE SUITE 4200	DALLAS	M	21				29	49	33	0
2200 ROSS AVE SUITE 4200	DALLAS	M	15				29	49	33	0
2200 ROSS AVENUE	DALLAS	M	14	NW	SE	NW	29	49	33	0
2405 GRAND ST STE 200	KANSAS CITY	M	17		SW	NE	17	49	33	0
2405 GRAND ST STE 200	KANSAS CITY	M	18		SW	NE	17	49	33	0
2405 GRAND ST STE 200	KANSAS CITY	M	16		SW	NE	17	49	33	0
2405 GRAND ST STE 200	KANSAS CITY	M	15			NE	17	49	33	0
2601 SWOPE PKWY	KANSAS CITY	M	10				27	49	33	0
2601 SWOPE PKWY	KANSAS CITY	M	10				27	49	33	0

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0161648A	M			SMITH
0163945A	M		JEWEL'S PHILLIPS 66 SER	
0163946A	M		JEWEL'S PHILLIPS 66 SER	
0163947A	M		JEWEL'S PHILLIPS 66 SER	
0163948A	M		JEWEL'S PHILLIPS 66 SER	
0163949A	M		JEWEL'S PHILLIPS 66 SER	
0163950A	M		JEWEL'S PHILLIPS 66 SER	
0163951A	M		JEWEL'S PHILLIPS 66 SER	
0163952A	M		JEWEL'S PHILLIPS 66 SER	
0206675A	M	3716 E 39TH ST KANSAS CITY MO	COASTAL MART INC	COASTAL MART
0206676A	M	3716 E 39TH ST KANSAS CITY MO	COSTAL MART INC	COASTAL MART
0206677A	M	3716 E 39TH STREET	COSTAL MART INC	COSTAL MART
0207300A	M	4201 BLUE PKWY KC MW2	CITY OF KC PKS REC & BL	ENFIELD
0235229A	M	3915 GILLHAM RD	KANSAS CITY PARKS & RE	
0235230A	M	3915 GILLHAM RD KC	KANSAS CITY PARKS & RE	ENFIELD
0267024A	M	3849 WARWICK BLVD KANSAS CITY	CEC REALTY INC	HATHHORN
0267025A	M	3840 WARWICK BLVD KANSAS CITY	CEC REALTY INC	HATHHORN
0267026A	M	3840 WARWICK BLVD KANSAS CITY	CEC REALTY INC	HATHHORN
0267027A	M	3840 WARWICK BLVD KANSAS CITY	CEC REALTY INC	HATHHORN
0267028A	M	3840 WARWICK BLVD KANSAS CITY	CEC REALTY INC	HATHHORN
0283308A	M	615 E LINWOOD, KC		CHAUDHRI
0283309A	M	615 E LINWOOD, KC		CHAUDHRI
0283310A	M	615 E LINWOOD, KC		CHAUDHRI
0283311A	M	615 E LINWOOD, KC		CHAUDHRI
0283312A	M	615 E LINWOOD, KC		CHAUDHRI
0283313A	M	615 E LINWOOD, KC		CHAUDHRI
0283314A	M	615 E LINWOOD, KC		CHAUDHRI
0283315A	M	615 E LINWOOD, KC		CHAUDHRI
0283316A	M	615 E LINWOOD, KC		CHAUDHRI
0283318A	M	615 E LINWOOD, KC		CHAUDHRI
0283319A	M	615 E LINWOOD, KC		CHAUDHRI
0284686A	M	5051 MAIN ST		SUHR
0284687A	M	5051 MAIN ST		SUHR

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2601 SWOPE PKWY	KANSAS CITY	M	10				27	49	33	0
2601 SWOPE PARKWAY	KANSAS CITY	M	20	NW	SW	NW	27	49	33	0
2601 SWOPE PARKWAY	KANSAS CITY	M	35	NW	SW	NW	27	49	33	0
2601 SWOPE PARKWAY	KANSAS CITY	M	35	NW	SW	SW	27	49	33	0
2601 SWOPE PARKWAY	KANSAS CITY	M	35	NW	NW	NW	27	49	33	0
2601 SWOPE PARKWAY	KANSAS CITY	M	35	NW	SW	NW	27	49	33	0
2601 SWOPE PARKWAY	KANSAS CITY	M	35	NW	SW	NW	27	49	33	0
2601 SWOPE PARKWAY	KANSAS CITY	M	35	NW	SW	NW	27	49	33	0
2601 SWOPE PARKWAY	KANSAS CITY	M	35	NW	SW	NW	27	49	33	0
COASTAL TOWER 9 GREEN	HOUSTON	M	15	SE	SW	NE	22	49	33	905
COASTAL TOWER 9 GREEN	HOUSTON	M	15	SE	SW	NE	22	49	33	902
COSTAL TOWER 9 GREENW	HOUSTON	M	12	SE	SW	NE	22	49	33	905
4600 E 63RD ST	KANSAS CITY	M	25.5			SW	29	49	33	0
C/O RICHARD ENFIELD	KANSAS CITY	M					20	49	33	
4600 E 63RD ST	KANSAS CITY	M					20	49	33	
4901 BRISTOL AV	KANSAS CITY	M	18	SW	SE	NW	20	49	33	
4901 BRISTOL AV	KANSAS CITY	M	15	SE	SE	NW	20	49	33	
4901 BRISTOL AV	KANSAS CITY	M	16	SE	SE	NW	20	49	33	
4901 BRISTOL AV	KANSAS CITY	M	15	SE	SE	NW	20	49	33	
4901 BRISTOL AV	KANSAS CITY	M	19	SW	SE	NW	20	49	33	
709 E LINWOOD	KANSAS CITY	M	20	SW	NE	SE	17	49	33	945
709 E LINWOOD	KANSAS CITY	M	16	SW	NE	SE	17	49	33	945
709 E LINWOOD	KANSAS CITY	M	15	SW	NE	SE	17	49	33	945
709 E LINWOOD	KANSAS CITY	M	15	SW	NE	SE	17	49	33	945
709 E LINWOOD	KANSAS CITY	M	16	SW	NE	SE	17	49	33	945
709 E LINWOOD	KANSAS CITY	M	15	SW	NE	SE	17	49	33	945
709 E LINWOOD	KANSAS CITY	M	18	SW	NE	SE	17	49	33	945
709 E LINWOOD	KANSAS CITY	M	18	SW	NE	SE	17	49	33	945
709 E LINWOOD	KANSAS CITY	M	15	SW	NE	SE	17	49	33	945
709 E LINWOOD	KANSAS CITY	M	16	SW	NE	SE	17	49	33	945
709 E LINWOOD	KANSAS CITY	M	16	SW	NE	SE	17	49	33	945
3807 W 57TH TERRACE	FAIRWAY	M		SW	SE	SW	29	49	33	890
3807 W 57TH TERRACE	FAIRWAY	M		SW	SE	SW	29	49	33	890

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0284688A	M	5051 MAIN ST		SUHR
0284691A	M	5051 MAIN ST		SUHR
0284692A	M	5051 MAIN ST KANSAS CITY		SUHR
0284693A	M	501 MAIN ST KANSAS CITY		SUHR
0284695A	M	501 MAIN ST KANSAS CITY		SUHR
0284699A	M	3400 LINWOOD BLVD KC	KC PUBLIC SCHOOL DIST	LAVER
0285118A	M	4632 PASEO BLVD KC	B P PRODUCTS OF N AME	TUNNICLIFF
0285128A	M	4632 PASEO BLVE KC	B P PRODUCTS OF N AME	TUNNICLIFF
0285130A	M	4632 PASEO BLVE KC	B P PRODUCTS OF N AME	TUNNICLIFF
0285131A	M	4632 PASEO BLVD KC	B P PRODUCTS OF N AME	TUNNICLIFF
0303246A	M	3400 LINWOOD BLVD KC	KC PUBLIC SCHOOL DIST	LAVER
0303247A	M	3400 LINWOOD BLVD KC	KC PUBLIC SCHOOL DIST	LAVER
0303335A	M	3400 LINWOOD BLVD KC	KC PUBLIC SCHOOL DIST	LAVER
0314652A	M	5060 OAK ST		PRYOR
0314653A	m	5060 OAK ST		PRYOR
0315441A	M	615 E LINWOOD		CHAUDHRI
0315442A	M	615 E LINWOOD		CHAUDHRI
0315443A	M	615 E LINWOOD		CHAUDHRI
0315444A	M	615 E LINWOOD		CHAUDHRI
0315564A	M	5060 OAK ST		PRYOR
0315577A	m	5060 OAK ST		PRYOR
0315589A	M	5060 OAK ST		PRYOR
0315590A	m	5060 OAK ST		PRYOR
0315598A	m	5060 OAK ST		PRYOR
0315599A	m	5060 OAK ST		PRYOR
0315424A	m	615 E LINWOOD		CHAUDHRI
0315425A	M	615 E LINWOOD		CHAUDHRI

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3807 W 57TH TERRACE	FAIRWAY	M		SW	SE	SW	29	49	33	890
3807 W 57TH TERRACE	FAIRWAY	M		SW	SE	SW	29	49	33	890
3807 W 57TH TERRACE	FAIRWAY	M		SW	SE	SW	29	49	33	890
3807 W 57TH TERRACE	FAIRWAY	M		SW	SE	SW	29	49	33	890
3807 W 57TH TERRACE	FAIRWAY	M		SW	SE	SW	29	49	33	890
800 E 21ST ST	KANSAS CITY	M	20.5	SW	SW	NE	15	49	33	930
2240 BLUESTONE DRIVE	ST CHARLES	M	20.3	SE	SW	NW	28	49	33	
2240 BLUESTONE DRIVE	ST CHARLES	M	20.3	SE	SW	NW	28	49	33	
2240 BLUESTONE DRIVE	ST CHARLES	M	21.5	SE	SW	NW	28	49	33	
2240 BLUESTONE DRIVE	ST CHARLES	M	19.5	SW	SW	NW	28	49	33	
800 E 21ST ST	KANSAS CITY	M	15.5	SW	SW	NE	15	49	33	930
800 E 21ST ST	KANSAS CITY	M	20.5	SW	SW	NE	15	49	33	930
800 E 21ST ST	KANSAS CITY	M	20.5	SW	SW	NE	15	49	33	930
5824 CHERRY ST	KANSAS CITY	M	15	SE	SE	SW	29	49	33	850
5824 CHERRY ST	KANSAS CITY	M	13.3	SE	SE	SW	29	49	33	850
709 E LINWOOD	KANSAS CITY	M	15.6	SW	NE	SE	17	49	33	945
709 E LINWOOD	KANSAS CITY	M	19	SW	NE	SE	17	49	33	945
709 E LINWOOD	KANSAS CITY	M	20	SW	NE	SE	17	49	33	945
709 E LINWOOD	KANSAS CITY	M	20	SW	NE	SE	17	49	33	945
5824 CHERRY ST	KANSAS CITY	M	14.3	SE	SE	SW	29	49	33	850
5824 CHERRY ST	KANSAS CITY	M	14.3	SE	SE	SW	29	49	33	850
5824 CHERRY ST	KANSAS CITY	M	12	SE	SE	SW	29	49	33	
5824 CHERRY ST	KANSAS CITY	M	12.5	SE	SE	SW	29	49	33	
5824 CHERRY ST	KANSAS CITY	M	11.5	SE	SE	SW	29	49	33	
5824 CHERRY ST	KANSAS CITY	M	16.3	SE	SE	SW	29	49	33	850
709 E LINWOOD	KANSAS CITY	M	16.3	SW	NE	SE	17	49	33	945
709 E LINWOOD	KANSAS CITY	M	20.3	SW	NE	SE	17	49	33	945

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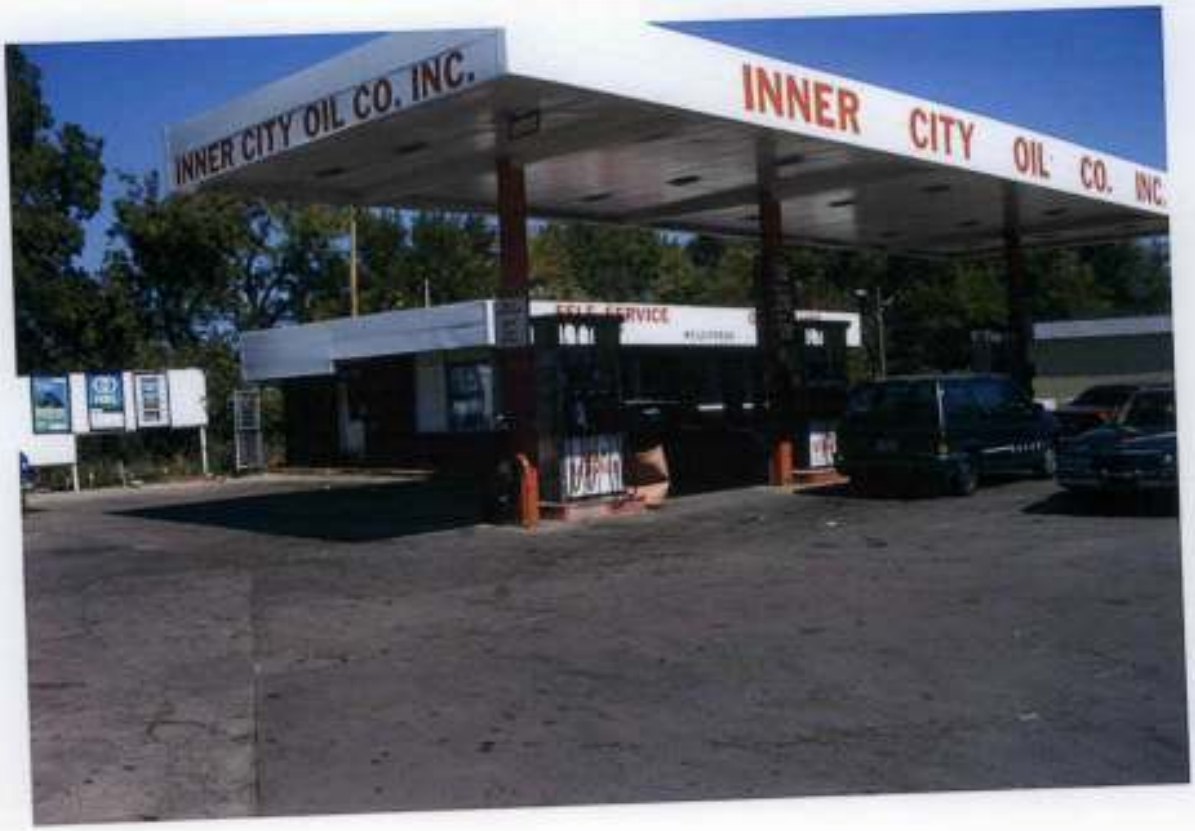
TOTAL P.07

UST REMOVAL

The UST area prior to closure activities.

UST REMOVAL



The site before and at the start of the UST closure activities.

UST REMOVAL

Uncovering and removal of the first (north) 10,000-gallon UST.

UST REMOVAL

The north 10,000-gallon UST after cleaning (the south 10,000-gallon UST in background).

The north 10,000-gallon UST loaded for transport off-site.

UST REMOVAL

The south 10,000-gallon UST following removal.

The south 10,000-gallon UST cleaned and loaded for transport off-site.

UST REMOVAL

The 4.000-gallon UST removed and after cleaning.

UST REMOVAL

The east wall of the UST pit during removal of loose soil of the floor.

UST REMOVAL

The west wall of the UST pit showing bedrock near the base during removal of loose soil on the floor.

UST REMOVAL

The north wall of the UST pit showing equipment used during removal of loose soil on the floor.

CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.

☐ 600 E. 17th St. S.
Newton, IA 50208
Phone: 641-792-8451
Fax: 641-792-7989

☐ 3012 Ansborough Ave.
Waterloo, IA 50701
Phone: 319-235-4440
Fax: 319-235-2480
www.keystonelabs.com

☒ 1304 Adams
Kansas City, KS 66103
Phone: 913-321-7856
Fax: 913-321-7937

PAGE 1 OF 1

PRINT OR TYPE INFORMATION BELOW

SAMPLER: Mark H Schulze
SITE NAME: Upper City - 31st
ADDRESS: 31st & Cleveland
CITY/ST/ZIP: Kansas City, MO
PHONE:

REPORT TO:
NAME: Mark H Schulze
COMPANY NAME: MKS Environmental Inc
ADDRESS: 13-A NW Barry Rd PMB 192
CITY/ST/ZIP: Kansas City, MO 64155
PHONE: 816-734-5021
FAX:

BILL TO:
NAME: Mark H Schulze
COMPANY NAME: same
ADDRESS:
CITY/ST/ZIP:
PHONE:
Keystone Quote No.: (If Applicable)

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED: OA-1 (BTEX)	OA-2 (TPH)	Total Lead	LAB USE ONLY: LABORATORY SAMPLE NUMBER
	9-26-06	1410hr	Landfill	2	S&L	G	X	X	X	360E01164-2

LABORATORY WORK ORDER NO.: 360E01164
SAMPLE TEMPERATURE UPON RECEIPT: ON ICE °C
SAMPLE CONDITION COMMENTS:

Relinquished by: (Signature) Mark H Schulze	Date 9/26/06 Time 1550hr	Received by: (Signature)	Date Time	Turn-Around: ☐ Standard ☒ Rush 1-2 Days (Contact Lab Prior to Submission)
Relinquished by: (Signature)	Date Time	Received for Lab by: (Signature)	Date 9/26/06 Time 15:50	Remarks:

Original - Return with Report • Yellow - Lab Copy • Pink - Sampler Copy

FORM: CCR 7-97

Keystone LABORATORIES, INC.

ACCREDITED IN ACCORDANCE WITH nelac

MEMBER ACIL

ANALYTICAL REPORT

September 29, 2006

Work Order: 36I0164

Report To	Work Order Information
Mark Schulze MHS Environmental, Inc 13-A NW Barry Rd. PMB-192 Kansas City, MO 64155	Date Received: 09/26/2006 3:50PM Collector: Mark H. Schulze Collector Phone: (816) 734-5021 PO Number: Inner City - 31st

Project: UST Testing

Project Number: Inner City - 31st & Cleveland, KCMO

Analyte	Result		MRL	Batch	Method	Analyst	Analyzed	Qualifier	Lab
3610164-01 Landfill					Matrix:Soil		Collected: 09/26/06 14:10		
Determination of Conventional Chemistry Parameters									
% Solids	78.5	%	0.1	1162805	% calculation	AKM	09/29/06 8:54		NT
Determination of Extractable Petroleum Hydrocarbons									
TEH, as kerosene	<5	mg/kg	5	1162726	Iowa OA-2	SMG	09/28/06 11:08		NT
TEH, as mineral spirits	<5	mg/kg	5	1162726	Iowa OA-2	SMG	09/28/06 11:08		NT
TEH, as hydraulic fluid	<5	mg/kg	5	1162726	Iowa OA-2	SMG	09/28/06 11:08		NT
TEH, as gasoline	205	mg/kg	5	1162726	Iowa OA-2	SMG	09/28/06 11:08		NT
TEH, as #2 diesel fuel	105	mg/kg	5	1162726	Iowa OA-2	SMG	09/28/06 11:08		NT
TEH, as waste oil	225	mg/kg	5	1162726	Iowa OA-2	SMG	09/28/06 11:08		NT
Total Extractable Hydrocarbons	535	mg/kg	5	1162726	Iowa OA-2	SMG	09/28/06 11:08		NT
Surrogate: Pentacosane	*74.4*	%			*50-137*	SMG	09/28/06 11:08		NT
Determination of Total Metals									
Lead, total	16.3	mg/kg	3.6	1162806	EPA 6010B	RVV	09/28/06 15:16		NT
Determination of Volatile Petroleum Hydrocarbons									
Benzene	7.68	mg/kg	0.20	1162723	Iowa OA-1	RSW	09/27/06 20:33		NT
Toluene	76.1	mg/kg	0.20	1162723	Iowa OA-1	RSW	09/27/06 20:33		NT
Ethylbenzene	23.1	mg/kg	0.20	1162723	Iowa OA-1	RSW	09/27/06 20:33		NT
Xylenes, total	109	mg/kg	0.40	1162723	Iowa OA-1	RSW	09/27/06 20:33		NT
Surrogate: Chlorobenzene	*121*	%			*50-134*	RSW	09/27/06 20:33		NT

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

MHS Environmental, Inc
13-A NW Barry Rd, PMB-192
Kansas City, MO 64155

Work Order: 36I0164

Determination of Volatile Petroleum Hydrocarbons - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1162723 - EPA 5030 Soil GC										
Blank (1162723-BLK1)				Prepared & Analyzed: 09/27/06						
Surrogate: Chlorobenzene	*6070*		*mg/kg*	*5290*		*115*	*50-134*			
Benzene	ND	0.20	"							
Toluene	ND	0.20	"							
Ethylbenzene	ND	0.20	"							
Xylenes, total	ND	0.40	"							
LCS (1162723-BS1)				Prepared & Analyzed: 09/27/06						
Surrogate: Chlorobenzene	*5000*		*mg/kg*	*5290*		*94.5*	*50-134*			
Benzene	14.46	0.20	"	15.50		93.3	61-137		20	
Toluene	13.97	0.20	"	16.05		87.0	54-132		20	
Ethylbenzene	11.80	0.20	"	15.75		74.9	51-128		20	
Xylenes, total	26.17	0.40	"	32.80		79.8	51-132		20	
Matrix Spike (1162723-MS1)		Source: 1611151-01		Prepared & Analyzed: 09/27/06						
Surrogate: Chlorobenzene	*5720*		*mg/kg*	*5290*		*108*	*50-134*			
Benzene	17.79	0.20	"	15.23	ND	117	55-128		13	
Toluene	17.03	0.20	"	15.77	ND	108	50-121		10	
Ethylbenzene	14.70	0.20	"	15.47	ND	95.0	50-118		10	
Xylenes, total	32.37	0.40	"	32.22	ND	100	50-122		10	
Matrix Spike Dup (1162723-MSD1)		Source: 1611151-01		Prepared & Analyzed: 09/27/06						
Surrogate: Chlorobenzene	*6250*		*mg/kg*	*5290*		*118*	*50-134*			
Benzene	17.60	0.20	"	15.41	ND	114	55-128	1.07	13	
Toluene	16.45	0.20	"	15.95	ND	103	50-121	3.46	10	
Ethylbenzene	13.99	0.20	"	15.66	ND	89.3	50-118	4.95	10	
Xylenes, total	31.00	0.40	"	32.60	ND	95.1	50-122	4.32	10	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

MHS Environmental, Inc
13-A NW Barry Rd, PMB-192
Kansas City, MO 64155

Work Order: 36I0164

Determination of Extractable Petroleum Hydrocarbons - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1I62726 - 3545 OA-2 PFE										
Blank (1I62726-BLK1)				Prepared: 09/27/06 Analyzed: 09/28/06						
Surrogate: Pentacosane	*3.55*		*mg/kg*	*3.12*		*114*	*50-137*			
TEH, as kerosene	ND	5	"							
TEH, as mineral spirits	ND	5	"							
TEH, as hydraulic fluid	ND	5	"							
TEH, as gasoline	ND	5	"							
TEH, as #2 diesel fuel	ND	5	"							
TEH, as waste oil	ND	5	"							
Total Extractable Hydrocarbons	ND	5	"							
LCS (1I62726-BS1)				Prepared: 09/27/06 Analyzed: 09/28/06						
Surrogate: Pentacosane	*2.73*		*mg/kg*	*3.12*		*87.5*	*50-137*			
TEH, as #2 diesel fuel	480.4	5	"	499.6		96.2	58-111		10	
Matrix Spike (1I62726-MS1)	Source: 16I1151-01			Prepared: 09/27/06 Analyzed: 09/28/06						
Surrogate: Pentacosane	*3.09*		*mg/kg*	*3.12*		*99.0*	*50-137*			
TEH, as #2 diesel fuel	386.0	5	"	498.9	ND	77.4	50-111		27	
Matrix Spike Dup (1I62726-MSD1)	Source: 16I1151-01			Prepared: 09/27/06 Analyzed: 09/28/06						
Surrogate: Pentacosane	*3.15*		*mg/kg*	*3.11*		*101*	*50-137*			
TEH, as #2 diesel fuel	380.3	5	"	497.7	ND	76.4	50-111	1.49	27	
Reference (1I62726-SRM1)				Prepared: 09/27/06 Analyzed: 09/28/06						
Surrogate: Pentacosane	*2.78*		*mg/kg*	*3.12*		*89.1*	*50-137*			
TEH, as #2 diesel fuel	431.4	5	"	499.6		86.3	70-130			

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MHS Environmental, Inc
13-A NW Barry Rd, PMB-192
Kansas City, MO 64155

Work Order: 3610164

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1162805 - Wet Chem Preparation										
Duplicate (1162805-DUP1)		Source: 3610164-01		Prepared: 09/28/06 Analyzed: 09/29/06						
% Solids	80.0	0.1	%		78.5			1.89	20	

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MHS Environmental, Inc
13-A NW Barry Rd. PMB-192
Kansas City, MO 64155

Work Order: 36I0164

Determination of Total Metals - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1162806 - EPA 3050B Solid Dig										
Blank (1162806-BLK1)				Prepared & Analyzed: 09/28/06						
Lead, total	ND	0.05	mg/kg							
LCS (1162806-BS1)				Prepared & Analyzed: 09/28/06						
Lead, total	2.00	0.05	mg/kg	2.000		100	87-115		20	
Matrix Spike (1162806-MS1)		Source: 36I0164-01		Prepared & Analyzed: 09/28/06						
Lead, total	140	3.7	mg/kg	147.1	16.3	84.1	68-111		22	
Matrix Spike Dup (1162806-MSD1)		Source: 36I0164-01		Prepared & Analyzed: 09/28/06						
Lead, total	135	3.6	mg/kg	143.9	16.3	82.5	68-111	3.64	22	
Post Spike (1162806-PS1)		Source: 36I0164-01		Prepared & Analyzed: 09/28/06						
Lead, total	145	3.6	mg/kg	146.0	16.3	88.2	60-133		20	

REC= Recovery; RPD= Relative Percent Difference

Notes and Definitions

Laboratory Location and Certifications

NT: Newton, IA: Kansas E-10287; Iowa 095; New Jersey (NELAC) 53001
KC:Kansas City, KS: Kansas (NELAC) E-10110; Missouri 00140
WL:Waterloo, IA: Iowa 051

End of Report

Keystone Laboratories, Inc.

Jeffrey King, Ph.D.
President

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CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.

☐ 600 E. 17th St. S.
Newton, IA 50208
Phone: 641-792-8451
Fax: 641-792-7989

☐ 3012 Ansborough Ave.
Waterloo, IA 50701
Phone: 319-235-4440
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www.keystonelabs.com

☐ 1304 Adams
Kansas City, KS 66103
Phone: 913-321-7856
Fax: 913-321-7937

PAGE 1 OF 1

PRINT OR TYPE INFORMATION BELOW

SAMPLER: MARK H SCHULZE
SITE NAME: INNER CITY 31ST
ADDRESS: 3814 E 31ST ST
CITY/ST/ZIP: KANSAS CITY, MO
PHONE:

REPORT TO:
NAME: MARK H SCHULZE
COMPANY NAME: MHS ENVIRONMENTAL, INC
ADDRESS: 13-A NW BARRY RD, PMB 192
CITY/ST/ZIP: KANSAS CITY, MO 64155
PHONE: 816 734-5021
FAX:

BILL TO:
NAME: MARK H SCHULZE
COMPANY NAME: SAME
ADDRESS:
CITY/ST/ZIP:
PHONE:
Keystone Quote No.: (If Applicable)

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED: BTEX	Naphthalene	Oxygenates	EDB / EDC	GRO	DRO			LABORATORY SAMPLE NUMBER
	9-28-06	1100hr	WASTE 1	5	Soil	G	X	X	X	X	X	X			36I0183-01
	9-28-06	1410hr	WASTE 2	5	Soil	G	X	X	X	X	X	X			-02

LAB USE ONLY

LABORATORY WORK ORDER NO.: 36I0183

SAMPLE TEMPERATURE UPON RECEIPT: Cool °C

SAMPLE CONDITION COMMENTS:

Relinquished by: (Signature)	Date	Received by: (Signature)	Date	Turn-Around:
Mark H Schulze	9-28-06		9/28	☐ Standard ☒ Rush 24-48 hrs
Relinquished by: (Signature)	Time 1445hr	Received for Lab by: (Signature)	Time 14:45	Contact Lab Prior to Submission
	Date		Date	Remarks:
	Time		Time	

Original - Return with Report • Yellow - Lab Copy • Pink - Sampler Copy

FORM: CCR 7-97

Keystone LABORATORIES, INC.

ACCREDITED IN ACCORDANCE WITH nelac

MEMBER ACIL

ANALYTICAL REPORT

October 09, 2006

Work Order: 3610183

Report To	Work Order Information
Mark Schulze MHS Environmental, Inc 13-A NW Barry Rd. PMB-192 Kansas City, MO 64155	Date Received: 09/28/2006 2:45PM Collector: Mark Schulze Collector Phone: (816) 734-5021 PO Number: Inner City 31st

Project: Missouri RBCA

Project Number: Inner City - 3814 E. 31st St., KCMO

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier	Lab
3610183-01 Waste 1				Matrix:Soil		Collected: 09/28/06 11:00		
Determination of Conventional Chemistry Parameters								
% Solids	81.5 %	0.1	1162934	% calculation	AKM	09/29/06 14:53		NT
Determination of Extractable Petroleum Hydrocarbons								
TPH-DRO (C10-C21)	117 mg/kg dry	74.6	1162936	EPA 8270C	EPP	10/01/06 18:46		NT
TPH-ORO (C21-C35)	<74.6 mg/kg dry	74.6	1162936	EPA 8270C	EPP	10/01/06 18:46		NT
Surrogate: Nitrobenzene-d5	*77.6 %*			*60-140*	EPP	10/01/06 18:46		NT
Surrogate: 2-Fluorobiphenyl	*75.7 %*			*60-136*	EPP	10/01/06 18:46		NT
Surrogate: Terphenyl-d14	*85.3 %*			*60-140*	EPP	10/01/06 18:46		NT
Determination of Total Petroleum Hydrocarbons								
TPH-GRO (C6-C10)	592 mg/kg dry	43.2	1J60217	EPA 8260B	SAI	09/30/06 22:49		NT
Determination of Volatile Organic Compounds								
1,2-Dibromoethane	<0.432 mg/kg dry	0.432	1J60217	EPA 8260B	SAI	09/30/06 22:49		NT
Methyl-t-butyl Ether (MTBE)	<2.16 mg/kg dry	2.16	1J60217	EPA 8260B	SAI	09/30/06 22:49		NT
Benzene	10.3 mg/kg dry	0.432	1J60217	EPA 8260B	SAI	09/30/06 22:49		NT
1,2-Dichloroethane	<0.432 mg/kg dry	0.432	1J60217	EPA 8260B	SAI	09/30/06 22:49		NT
Toluene	85.7 mg/kg dry	0.432	1J60217	EPA 8260B	SAI	09/30/06 22:49		NT
Ethylbenzene	26.3 mg/kg dry	0.432	1J60217	EPA 8260B	SAI	09/30/06 22:49		NT
Xylenes, total	116 mg/kg dry	0.863	1J60217	EPA 8260B	SAI	09/30/06 22:49		NT
Naphthalene	6.76 mg/kg dry	0.432	1J60217	EPA 8260B	SAI	09/30/06 22:49		NT
Ethyl-tert-Butyl Ether (ETBE)	<4.32 mg/kg dry	4.32	1J60217	EPA 8260B	SAI	09/30/06 22:49		NT
Di-iso-Propyl Ether (DIPE)	<4.32 mg/kg dry	4.32	1J60217	EPA 8260B	SAI	09/30/06 22:49		NT
tert-Amyl Methyl Ether (TAME)	<4.32 mg/kg dry	4.32	1J60217	EPA 8260B	SAI	09/30/06 22:49		NT
tert-Butyl Alcohol (TBA)	<108 mg/kg dry	108	1J60217	EPA 8260B	SAI	09/30/06 22:49		NT
Surrogate: Dibromofluoromethane	*99.0 %*			*70-135*	SAI	09/30/06 22:49		NT
Surrogate: 1,2-Dichloroethane-d4	*116 %*			*68-132*	SAI	09/30/06 22:49		NT
Surrogate: Toluene-d8	*97.7 %*			*73-123*	SAI	09/30/06 22:49		NT
Surrogate: 4-Bromofluorobenzene	*111 %*			*72-127*	SAI	09/30/06 22:49		NT

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MHS Environmental, Inc
13-A NW Barry Rd, PMB-192
Kansas City, MO 64155

October 09, 2006

Work Order: 3610183

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier	Lab
3610183-02 Waste 2				Matrix:Soil		Collected: 09/28/06 14:10		
Determination of Conventional Chemistry Parameters								
% Solids	**77.3 %**	0.1	1162934	% calculation	AKM	09/29/06 14:53		NT
Determination of Extractable Petroleum Hydrocarbons								
TPH-DRO (C10-C21)	**64.8 mg/kg dry**	49.9	1162936	EPA 8270C	EPP	10/01/06 19:22		NT
TPH-ORO (C21-C35)	<74.9 mg/kg dry	74.9	1162936	EPA 8270C	EPP	10/01/06 19:22		NT
Surrogate: Nitrobenzene-d5	*68.7 %*			*60-140*	EPP	10/01/06 19:22		NT
Surrogate: 2-Fluorobiphenyl	*79.4 %*			*60-136*	EPP	10/01/06 19:22		NT
Surrogate: Terphenyl-dl4	*74.0 %*			*60-140*	EPP	10/01/06 19:22		NT
Determination of Total Petroleum Hydrocarbons								
TPH-GRO (C6-C10)	**1020 mg/kg dry**	41.4	1J60217	EPA 8260B	SAI	09/30/06 23:32		NT
Determination of Volatile Organic Compounds								
1,2-Dibromoethane	<0.414 mg/kg dry	0.414	1J60217	EPA 8260B	SAI	09/30/06 23:32		NT
Methyl-t-butyl Ether (MTBE)	<2.07 mg/kg dry	2.07	1J60217	EPA 8260B	SAI	09/30/06 23:32		NT
Benzene	**17.2 mg/kg dry**	0.414	1J60217	EPA 8260B	SAI	09/30/06 23:32		NT
1,2-Dichloroethane	<0.414 mg/kg dry	0.414	1J60217	EPA 8260B	SAI	09/30/06 23:32		NT
Toluene	**88.1 mg/kg dry**	0.414	1J60217	EPA 8260B	SAI	09/30/06 23:32		NT
Ethylbenzene	**29.3 mg/kg dry**	0.414	1J60217	EPA 8260B	SAI	09/30/06 23:32		NT
Xylenes, total	**118 mg/kg dry**	0.828	1J60217	EPA 8260B	SAI	09/30/06 23:32		NT
Naphthalene	**5.67 mg/kg dry**	0.414	1J60217	EPA 8260B	SAI	09/30/06 23:32		NT
Ethyl-tert-Butyl Ether (ETBE)	<4.14 mg/kg dry	4.14	1J60217	EPA 8260B	SAI	09/30/06 23:32		NT
Di-iso-Propyl Ether (DIPE)	<4.14 mg/kg dry	4.14	1J60217	EPA 8260B	SAI	09/30/06 23:32		NT
tert-Amyl Methyl Ether (TAME)	<4.14 mg/kg dry	4.14	1J60217	EPA 8260B	SAI	09/30/06 23:32		NT
tert-Butyl Alcohol (TBA)	<103 mg/kg dry	103	1J60217	EPA 8260B	SAI	09/30/06 23:32		NT
Surrogate: Dibromofluoromethane	*103 %*			*70-135*	SAI	09/30/06 23:32		NT
Surrogate: 1,2-Dichloroethane-d4	*117 %*			*68-132*	SAI	09/30/06 23:32		NT
Surrogate: Toluene-d8	*97.3 %*			*73-123*	SAI	09/30/06 23:32		NT
Surrogate: 4-Bromofluorobenzene	*113 %*			*72-127*	SAI	09/30/06 23:32		NT

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MHS Environmental, Inc
13-A NW Barry Rd. PMB-192
Kansas City, MO 64155

Work Order: 36I0183

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J60217 - EPA 5030B										
Blank (1J60217-BLK1)			Prepared: 09/29/06 Analyzed: 09/30/06							
Surrogate: Dibromofluoromethane	*0.106*		*mg/kg wet*	*0.1000*		*106*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.101*		"	*0.1000*		*101*	*68-132*			
Surrogate: Toluene-d8	*0.0884*		"	*0.1000*		*88.4*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.102*		"	*0.1000*		*102*	*72-127*			
1,2-Dibromoethane	ND	0.200	"							
Methyl-t-butyl Ether (MTBE)	ND	1.00	"							
Benzene	ND	0.200	"							
1,2-Dichloroethane	ND	0.200	"							
Toluene	ND	0.200	"							
Ethylbenzene	ND	0.200	"							
Xylenes, total	ND	0.400	"							
Naphthalene	ND	0.200	"							
Ethyl-tert-Butyl Ether (ETBE)	ND	2.00	"							
Di-iso-Propyl Ether (DIPE)	ND	2.00	"							
tert-Amyl Methyl Ether (TAME)	ND	2.00	"							
tert-Butyl Alcohol (TBA)	ND	50.0	"							
LCS (1J60217-BS1)			Prepared: 09/29/06 Analyzed: 09/30/06							
Surrogate: Dibromofluoromethane	*0.109*		*mg/kg wet*	*0.1000*		*109*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.106*		"	*0.1000*		*106*	*68-132*			
Surrogate: Toluene-d8	*0.0978*		"	*0.1000*		*97.8*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.105*		"	*0.1000*		*105*	*72-127*			
1,2-Dibromoethane	8.566	0.200	"	9.828		87.2	60-140		30	
Methyl-t-butyl Ether (MTBE)	8.250	1.00	"	9.436		87.4	52-145		18	
Benzene	9.736	0.200	"	9.884		98.5	61-140		23	
1,2-Dichloroethane	7.616	0.200	"	8.456		90.1	71-135		20	
Toluene	9.168	0.200	"	9.268		98.9	76-140		17	
Ethylbenzene	11.31	0.200	"	9.464		120	72-140		24	
Xylenes, total	22.10	0.400	"	18.96		117	76-132		23	
Naphthalene	4.966	0.200	"	5.096		97.4	50-148		22	

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MHS Environmental, Inc
13-A NW Barry Rd, PMB-192
Kansas City, MO 64155

Work Order: 36I0183

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J60217 - EPA 5030B										
LCS (1J60217-BS1)				Prepared: 09/29/06 Analyzed: 09/30/06						
Ethyl-tert-Butyl Ether (ETBE)	7.578	2.00	mg/kg wet	8.148		93.0	60-140		30	
Di-iso-Propyl Ether (DIPE)	8.470	2.00	"	8.540		99.2	60-140		30	
tert-Amyl Methyl Ether (TAME)	7.036	2.00	"	8.092		87.0	60-140		30	
tert-Butyl Alcohol (TBA)	152.4	50.0	"	144.3		106	60-140		30	
Matrix Spike (1J60217-MS1)			Source: 1610977-05	Prepared: 09/29/06 Analyzed: 09/30/06						
Surrogate: Dibromofluoromethane	*0.101*		*mg/kg wet*	*0.1000*		*101*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.106*		"	*0.1000*		*106*	*68-132*			
Surrogate: Toluene-d8	*0.0949*		"	*0.1000*		*94.9*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.102*		"	*0.1000*		*102*	*72-127*			
1,2-Dibromoethane	8.664	0.200	"	9.828	ND	88.2	62-133		23	
Methyl-t-butyl Ether (MTBE)	8.856	1.00	"	9.436	ND	93.9	50-150		23	
Benzene	10.32	0.200	"	9.884	ND	104	60-140		27	
1,2-Dichloroethane	8.068	0.200	"	8.456	ND	95.4	65-138		23	
Toluene	9.602	0.200	"	9.268	ND	104	63-140		29	
Ethylbenzene	12.35	0.200	"	9.464	ND	130	56-150		29	
Xylenes, total	24.01	0.400	"	18.96	ND	127	57-142		28	
Naphthalene	5.546	0.200	"	5.096	ND	109	50-150		30	
Ethyl-tert-Butyl Ether (ETBE)	8.274	2.00	"	8.148	ND	102	60-140		30	
Di-iso-Propyl Ether (DIPE)	9.034	2.00	"	8.540	ND	106	60-140		30	
tert-Amyl Methyl Ether (TAME)	7.552	2.00	"	8.092	ND	93.3	60-140		30	
tert-Butyl Alcohol (TBA)	166.4	50.0	"	144.3	ND	115	60-140		30	
Matrix Spike Dup (1J60217-MSD1)			Source: 1610977-05	Prepared: 09/29/06 Analyzed: 09/30/06						
Surrogate: Dibromofluoromethane	*0.103*		*mg/kg wet*	*0.0998*		*103*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.117*		"	*0.0998*		*117*	*68-132*			
Surrogate: Toluene-d8	*0.0916*		"	*0.0998*		*91.8*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.102*		"	*0.0998*		*102*	*72-127*			
1,2-Dibromoethane	7.776	0.200	"	9.808	ND	79.3	62-133	10.8	23	
Methyl-t-butyl Ether (MTBE)	8.190	0.998	"	9.417	ND	87.0	50-150	7.81	23	
Benzene	9.982	0.200	"	9.864	ND	101	60-140	3.33	27	
1,2-Dichloroethane	7.623	0.200	"	8.439	ND	90.3	65-138	5.67	23	
Toluene	8.321	0.200	"	9.250	ND	90.0	63-140	14.3	29	
Ethylbenzene	11.55	0.200	"	9.445	ND	122	56-150	6.69	29	

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MHS Environmental, Inc
13-A NW Barry Rd, PMB-192
Kansas City, MO 64155

Work Order: 36I0183

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J60217 - EPA 5030B										
Matrix Spike Dup (1J60217-MSD1)		Source: 16I0977-05		Prepared: 09/29/06 Analyzed: 09/30/06						
Xylenes, total	22.91	0.399	mg/kg wet	18.92	ND	121	57-142	4.69	28	
Naphthalene	4.998	0.200	"	5.086	ND	98.3	50-150	10.4	30	
Ethyl-tert-Butyl Ether (ETBE)	7.218	2.00	"	8.132	ND	88.8	60-140	13.6	30	
Di-iso-Propyl Ether (DIPE)	8.148	2.00	"	8.523	ND	95.6	60-140	10.3	30	
tert-Amyl Methyl Ether (TAME)	7.531	2.00	"	8.076	ND	93.3	60-140	0.278	30	
tert-Butyl Alcohol (TBA)	145.1	49.9	"	144.1	ND	101	60-140	13.7	30	

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MHS Environmental, Inc
13-A NW Barry Rd, PMB-192
Kansas City, MO 64155

Work Order: 36I0183

Determination of Total Petroleum Hydrocarbons - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J60217 - EPA 5030B										
Blank (1J60217-BLK1)				Prepared: 09/29/06 Analyzed: 09/30/06						
TPH-GRO (C6-C10)	ND	20.0	mg/kg wet							

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MHS Environmental, Inc
13-A NW Barry Rd. PMB-192
Kansas City, MO 64155

Work Order: 36I0183

Determination of Extractable Petroleum Hydrocarbons - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1162936 - 3545 BNA PFE										
Blank (1162936-BLK1)				Prepared: 09/29/06 Analyzed: 10/02/06						
Surrogate: Nitrobenzene-d5	*1.94*		*mg/kg wet*	*3.04*		*63.8*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2.02*		"	*3.00*		*67.3*	*60-136*			
Surrogate: Terphenyl-dl4	*2.28*		"	*3.07*		*74.3*	*60-140*			
TPH-DRO (C10-C21)	ND	15.0	"							
TPH-ORO (C21-C35)	ND	15.0	"							
LCS (1162936-BS1)				Prepared: 09/29/06 Analyzed: 10/02/06						
Surrogate: Nitrobenzene-d5	*2.45*		*mg/kg wet*	*3.04*		*80.6*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2.19*		"	*3.00*		*73.0*	*60-136*			
Surrogate: Terphenyl-dl4	*2.28*		"	*3.07*		*74.3*	*60-140*			
TPH-DRO (C10-C21)	33.87	15.0	"	38.33		88.4	70-130		30	
Matrix Spike (1162936-MS1)		Source: 16I1327-01		Prepared: 09/29/06 Analyzed: 10/01/06						*S-BN*
Surrogate: Nitrobenzene-d5	*10.9*		*mg/kg dry*	*20.38*		*53.5*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*12.8*		"	*20.10*		*63.7*	*60-136*			
Surrogate: Terphenyl-dl4	*13.6*		"	*20.56*		*66.1*	*60-140*			
TPH-DRO (C10-C21)	214.5	74.6	"	256.7	74.8	54.4	70-130		30	QM-07
Matrix Spike Dup (1162936-MSD1)		Source: 16I1327-01		Prepared: 09/29/06 Analyzed: 10/01/06						*S-BN*
Surrogate: Nitrobenzene-d5	*10.9*		*mg/kg dry*	*20.41*		*53.4*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*13.7*		"	*20.13*		*68.1*	*60-136*			
Surrogate: Terphenyl-dl4	*15.7*		"	*20.59*		*76.3*	*60-140*			
TPH-DRO (C10-C21)	216.6	74.8	"	257.1	74.8	55.2	70-130	0.974	30	QM-07
Reference (1162936-SRM1)				Prepared: 09/29/06 Analyzed: 10/01/06						
Surrogate: Nitrobenzene-d5	*2.82*		*mg/kg wet*	*3.04*		*92.8*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2.86*		"	*3.00*		*95.3*	*60-136*			
Surrogate: Terphenyl-dl4	*2.66*		"	*3.07*		*86.6*	*60-140*			
TPH-DRO (C10-C21)	45.47	15.0	"	38.33		119	70-130			

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MHS Environmental, Inc
13-A NW Barry Rd, PMB-192
Kansas City, MO 64155

October 09, 2006

Work Order: 3610183

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1162934 - Wet Chem Preparation										
Duplicate (1162934-DUP1)	Source: 1611327-01			Prepared & Analyzed: 09/29/06						
% Solids	73.9	0.1	%		74.3			0.540	20	
Duplicate (1162934-DUP2)	Source: 1610920-01			Prepared & Analyzed: 09/29/06						
% Solids	83.4	0.1	%		84.6			1.43	20	

REC= Recovery; RPD= Relative Percent Difference

Notes and Definitions

Laboratory Location and Certifications

NT: Newton, IA: Kansas E-10287; Iowa 095; New Jersey (NELAC) 53001
KC:Kansas City, KS: Kansas (NELAC) E-10110; Missouri 00140
WL:Waterloo, IA: Iowa 051

QM-07 The spike recovery and/or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

S-BN Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.

End of Report

Keystone Laboratories, Inc.

Jeffrey King, Ph.D.
President

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CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.

☐ 600 E. 17th St. S.
Newton, IA 50208
Phone: 641-792-8451
Fax: 641-792-7989

☐ 3012 Ansborough Ave.
Waterloo, IA 50701
Phone: 319-235-4440
Fax: 319-235-2480
www.keystonelabs.com

☒ 1304 Adams
Kansas City, KS 66103
Phone: 913-321-7856
Fax: 913-321-7937

PAGE 1 OF 1

PRINT OR TYPE INFORMATION BELOW
SAMPLER: Mark H Schulze
SITE NAME: Inner City. 31st
ADDRESS: 3814 E 31st St
CITY/ST/ZIP: Kansas City, Mo
PHONE:

REPORT TO:
NAME: Mark H Schulze
COMPANY NAME: MHS Environmental, Inc
ADDRESS: 13-A NW Barry Rd PMB 192
CITY/ST/ZIP: Kansas City, MO 64155
PHONE: 816 734 502
FAX:

BILL TO:
NAME: Mark H Schulze
COMPANY NAME: same
ADDRESS:
CITY/ST/ZIP:
PHONE:
Keystone Quote No.: (If Applicable)

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED: BTEX	Naphthalene	Oxygenates	EDB/EDC	GRO	DRO			LAB USE ONLY: LABORATORY SAMPLE NUMBER
	4-28-06	1445hr	Waste 3	5	Soil	G	X	X	X	X	X	X			36I0184.01

LABORATORY WORK ORDER NO.: 36I0184
SAMPLE TEMPERATURE UPON RECEIPT: ONICE °C
SAMPLE CONDITION/COMMENTS:

Relinquished by: (Signature) Mark H Schulze	Date 4-28-06	Received by: (Signature)	Date 4/28	Turn-Around: ☒ Standard	☐ Rush _____ Contact Lab Prior to Submission
	Time 1445hr		Time 14:45		
Relinquished by: (Signature)	Date	Received for Lab by: (Signature)	Date	Remarks:	
	Time		Time		

Original - Return with Report • Yellow - Lab Copy • Pink - Sampler Copy

FORM: CCR 7-97

Keystone LABORATORIES, INC.

ACCREDITED IN ACCORDANCE WITH nelac

MEMBER ACIL

ANALYTICAL REPORT

October 09, 2006

Work Order: 36I0184

Report To

Mark Schulze
MHS Environmental, Inc
13-A NW Barry Rd, PMB-192
Kansas City, MO 64155

Work Order Information

Date Received: 09/28/2006 2:45PM
Collector: Mark Schulze
Collector Phone: (816) 734-5021
PO Number: Inner City 31st

Project: Missouri RBCA

Project Number: Inner City - 3814 E. 31st St., KCMO

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier	Lab
3610184-01 Waste 3				Matrix:Soil		Collected: 09/28/06 14:45		
Determination of Conventional Chemistry Parameters								
% Solids	74.3 %	0.1	1I62934	% calculation	AKM	09/29/06 14:53		NT
Determination of Extractable Petroleum Hydrocarbons								
TPH-DRO (C10-C21)	74.8 mg/kg dry	49.9	1I62936	EPA 8270C	EPP	10/01/06 19:58		NT
TPH-ORO (C21-C35)	<74.9 mg/kg dry	74.9	1I62936	EPA 8270C	EPP	10/01/06 19:58		NT
Surrogate: Nitrobenzene-d5	*65.8 %*			*60-140*	EPP	10/01/06 19:58		NT
Surrogate: 2-Fluorobiphenyl	*77.4 %*			*60-136*	EPP	10/01/06 19:58		NT
Surrogate: Terphenyl-dl4	%			*60-140*	EPP	10/01/06 19:58	S-BN	NT
Determination of Total Petroleum Hydrocarbons								
TPH-GRO (C6-C10)	556 mg/kg dry	44.4	1J60217	EPA 8260B	SAI	10/01/06 0:15		NT
Determination of Volatile Organic Compounds								
1,2-Dibromoethane	<0.444 mg/kg dry	0.444	1J60217	EPA 8260B	SAI	10/01/06 0:15		NT
Methyl-t-butyl Ether (MTBE)	<2.22 mg/kg dry	2.22	1J60217	EPA 8260B	SAI	10/01/06 0:15		NT
Benzene	10.3 mg/kg dry	0.444	1J60217	EPA 8260B	SAI	10/01/06 0:15		NT
1,2-Dichloroethane	<0.444 mg/kg dry	0.444	1J60217	EPA 8260B	SAI	10/01/06 0:15		NT
Toluene	66.1 mg/kg dry	0.444	1J60217	EPA 8260B	SAI	10/01/06 0:15		NT
Ethylbenzene	22.0 mg/kg dry	0.444	1J60217	EPA 8260B	SAI	10/01/06 0:15		NT
Xylenes, total	105 mg/kg dry	0.888	1J60217	EPA 8260B	SAI	10/01/06 0:15		NT
Naphthalene	4.47 mg/kg dry	0.444	1J60217	EPA 8260B	SAI	10/01/06 0:15		NT
Ethyl-tert-Butyl Ether (ETBE)	<4.44 mg/kg dry	4.44	1J60217	EPA 8260B	SAI	10/01/06 0:15		NT
Di-iso-Propyl Ether (DIPE)	<4.44 mg/kg dry	4.44	1J60217	EPA 8260B	SAI	10/01/06 0:15		NT
tert-Amyl Methyl Ether (TAME)	<4.44 mg/kg dry	4.44	1J60217	EPA 8260B	SAI	10/01/06 0:15		NT
tert-Butyl Alcohol (TBA)	<111 mg/kg dry	111	1J60217	EPA 8260B	SAI	10/01/06 0:15		NT
Surrogate: Dibromofluoromethane	*111 %*			*70-135*	SAI	10/01/06 0:15		NT
Surrogate: 1,2-Dichloroethane-d4	*120 %*			*68-132*	SAI	10/01/06 0:15		NT
Surrogate: Toluene-d8	*97.1 %*			*73-123*	SAI	10/01/06 0:15		NT
Surrogate: 4-Bromofluorobenzene	*106 %*			*72-127*	SAI	10/01/06 0:15		NT

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MHS Environmental, Inc
13-A NW Barry Rd, PMB-192
Kansas City, MO 64155

Work Order: 3610184

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J60217 - EPA 5030B										
Blank (1J60217-BLK1)				Prepared: 09/29/06 Analyzed: 09/30/06						
Surrogate: Dibromofluoromethane	*0.106*		*mg/kg wet*	*0.1000*		*106*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.101*		"	*0.1000*		*101*	*68-132*			
Surrogate: Toluene-d8	*0.0884*		"	*0.1000*		*88.4*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.102*		"	*0.1000*		*102*	*72-127*			
1,2-Dibromoethane	ND	0.200	"							
Methyl-t-butyl Ether (MTBE)	ND	1.00	"							
Benzene	ND	0.200	"							
1,2-Dichloroethane	ND	0.200	"							
Toluene	ND	0.200	"							
Ethylbenzene	ND	0.200	"							
Xylenes, total	ND	0.400	"							
Naphthalene	ND	0.200	"							
Ethyl-tert-Butyl Ether (ETBE)	ND	2.00	"							
Di-iso-Propyl Ether (DIPE)	ND	2.00	"							
tert-Amyl Methyl Ether (TAME)	ND	2.00	"							
tert-Butyl Alcohol (TBA)	ND	50.0	"							
LCS (1J60217-BS1)				Prepared: 09/29/06 Analyzed: 09/30/06						
Surrogate: Dibromofluoromethane	*0.109*		*mg/kg wet*	*0.1000*		*109*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.106*		"	*0.1000*		*106*	*68-132*			
Surrogate: Toluene-d8	*0.0978*		"	*0.1000*		*97.8*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.105*		"	*0.1000*		*105*	*72-127*			
1,2-Dibromoethane	8.566	0.200	"	9.828		87.2	60-140		30	
Methyl-t-butyl Ether (MTBE)	8.250	1.00	"	9.436		87.4	52-145		18	
Benzene	9.736	0.200	"	9.884		98.5	61-140		23	
1,2-Dichloroethane	7.616	0.200	"	8.456		90.1	71-135		20	
Toluene	9.168	0.200	"	9.268		98.9	76-140		17	
Ethylbenzene	11.31	0.200	"	9.464		120	72-140		24	
Xylenes, total	22.10	0.400	"	18.96		117	76-132		23	
Naphthalene	4.966	0.200	"	5.096		97.4	50-148		22	

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MHS Environmental, Inc
13-A NW Barry Rd. PMB-192
Kansas City, MO 64155

October 09, 2006

Work Order: 36I0184

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J60217 - EPA 5030B										
LCS (1J60217-BS1)				Prepared: 09/29/06 Analyzed: 09/30/06						
Ethyl-tert-Butyl Ether (ETBE)	7.578	2.00	mg/kg wet	8.148		93.0	60-140		30	
Di-iso-Propyl Ether (DIPE)	8.470	2.00	"	8.540		99.2	60-140		30	
tert-Amyl Methyl Ether (TAME)	7.036	2.00	"	8.092		87.0	60-140		30	
tert-Butyl Alcohol (TBA)	152.4	50.0	"	144.3		106	60-140		30	
Matrix Spike (1J60217-MS1)				Source: 1610977-05 Prepared: 09/29/06 Analyzed: 09/30/06						
Surrogate: Dibromofluoromethane	*0.101*		*mg/kg wet*	*0.1000*		*101*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.106*		"	*0.1000*		*106*	*68-132*			
Surrogate: Toluene-d8	*0.0949*		"	*0.1000*		*94.9*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.102*		"	*0.1000*		*102*	*72-127*			
1,2-Dibromoethane	8.664	0.200	"	9.828	ND	88.2	62-133		23	
Methyl-t-butyl Ether (MTBE)	8.856	1.00	"	9.436	ND	93.9	50-150		23	
Benzene	10.32	0.200	"	9.884	ND	104	60-140		27	
1,2-Dichloroethane	8.068	0.200	"	8.456	ND	95.4	65-138		23	
Toluene	9.602	0.200	"	9.268	ND	104	63-140		29	
Ethylbenzene	12.35	0.200	"	9.464	ND	130	56-150		29	
Xylenes, total	24.01	0.400	"	18.96	ND	127	57-142		28	
Naphthalene	5.546	0.200	"	5.096	ND	109	50-150		30	
Ethyl-tert-Butyl Ether (ETBE)	8.274	2.00	"	8.148	ND	102	60-140		30	
Di-iso-Propyl Ether (DIPE)	9.034	2.00	"	8.540	ND	106	60-140		30	
tert-Amyl Methyl Ether (TAME)	7.552	2.00	"	8.092	ND	93.3	60-140		30	
tert-Butyl Alcohol (TBA)	166.4	50.0	"	144.3	ND	115	60-140		30	
Matrix Spike Dup (1J60217-MSD1)				Source: 1610977-05 Prepared: 09/29/06 Analyzed: 09/30/06						
Surrogate: Dibromofluoromethane	*0.103*		*mg/kg wet*	*0.0998*		*103*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.117*		"	*0.0998*		*117*	*68-132*			
Surrogate: Toluene-d8	*0.0916*		"	*0.0998*		*91.8*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.102*		"	*0.0998*		*102*	*72-127*			
1,2-Dibromoethane	7.776	0.200	"	9.808	ND	79.3	62-133	10.8	23	
Methyl-t-butyl Ether (MTBE)	8.190	0.998	"	9.417	ND	87.0	50-150	7.81	23	
Benzene	9.982	0.200	"	9.864	ND	101	60-140	3.33	27	
1,2-Dichloroethane	7.623	0.200	"	8.439	ND	90.3	65-138	5.67	23	
Toluene	8.321	0.200	"	9.250	ND	90.0	63-140	14.3	29	
Ethylbenzene	11.55	0.200	"	9.445	ND	122	56-150	6.69	29	

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MHS Environmental, Inc
13-A NW Barry Rd, PMB-192
Kansas City, MO 64155

Work Order: 3610184

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J60217 - EPA 5030B										
Matrix Spike Dup (1J60217-MSD1)	Source: 1610977-05			Prepared: 09/29/06 Analyzed: 09/30/06						
Xylenes, total	22.91	0.399	mg/kg wet	18.92	ND	121	57-142	4.69	28	
Naphthalene	4.998	0.200	"	5.086	ND	98.3	50-150	10.4	30	
Ethyl-tert-Butyl Ether (ETBE)	7.218	2.00	"	8.132	ND	88.8	60-140	13.6	30	
Di-iso-Propyl Ether (DIPE)	8.148	2.00	"	8.523	ND	95.6	60-140	10.3	30	
tert-Amyl Methyl Ether (TAME)	7.531	2.00	"	8.076	ND	93.3	60-140	0.278	30	
tert-Butyl Alcohol (TBA)	145.1	49.9	"	144.1	ND	101	60-140	13.7	30	

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MHS Environmental, Inc
13-A NW Barry Rd, PMB-192
Kansas City, MO 64155

Work Order: 36I0184

Determination of Total Petroleum Hydrocarbons - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J60217 - EPA 5030B										
Blank (1J60217-BLK1)				Prepared: 09/29/06 Analyzed: 09/30/06						
TPH-GRO (C6-C10)	ND	20.0	mg/kg wet							

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MRL= Method Reporting Limit.

MHS Environmental, Inc
13-A NW Barry Rd, PMB-192
Kansas City, MO 64155

Work Order: 36I0184

Determination of Extractable Petroleum Hydrocarbons - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1162936 - 3545 BNA PFE										
Blank (1162936-BLK1)				Prepared: 09/29/06 Analyzed: 10/02/06						
Surrogate: Nitrobenzene-d5	*1.94*		*mg/kg wet*	*3.04*		*63.8*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2.02*		"	*3.00*		*67.3*	*60-136*			
Surrogate: Terphenyl-dl4	*2.28*		"	*3.07*		*74.3*	*60-140*			
TPH-DRO (C10-C21)	ND	15.0	"							
TPH-ORO (C21-C35)	ND	15.0	"							
LCS (1162936-BS1)				Prepared: 09/29/06 Analyzed: 10/02/06						
Surrogate: Nitrobenzene-d5	*2.45*		*mg/kg wet*	*3.04*		*80.6*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2.19*		"	*3.00*		*73.0*	*60-136*			
Surrogate: Terphenyl-dl4	*2.28*		"	*3.07*		*74.3*	*60-140*			
TPH-DRO (C10-C21)	33.87	15.0	"	38.33		88.4	70-130		30	
Matrix Spike (1162936-MS1)	Source: 36I0184-01			Prepared: 09/29/06 Analyzed: 10/01/06						*S-BN*
Surrogate: Nitrobenzene-d5	*10.9*		*mg/kg dry*	*20.38*		*53.5*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*12.8*		"	*20.10*		*63.7*	*60-136*			
Surrogate: Terphenyl-dl4	*13.6*		"	*20.56*		*66.1*	*60-140*			
TPH-DRO (C10-C21)	214.5	74.6	"	256.7	74.8	54.4	70-130		30	QM-07
Matrix Spike Dup (1162936-MSD1)	Source: 36I0184-01			Prepared: 09/29/06 Analyzed: 10/01/06						*S-BN*
Surrogate: Nitrobenzene-d5	*10.9*		*mg/kg dry*	*20.41*		*53.4*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*13.7*		"	*20.13*		*68.1*	*60-136*			
Surrogate: Terphenyl-dl4	*15.7*		"	*20.59*		*76.3*	*60-140*			
TPH-DRO (C10-C21)	216.6	74.8	"	257.1	74.8	55.2	70-130	0.974	30	QM-07
Reference (1162936-SRM1)				Prepared: 09/29/06 Analyzed: 10/01/06						
Surrogate: Nitrobenzene-d5	*2.82*		*mg/kg wet*	*3.04*		*92.8*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2.86*		"	*3.00*		*95.3*	*60-136*			
Surrogate: Terphenyl-dl4	*2.66*		"	*3.07*		*86.6*	*60-140*			
TPH-DRO (C10-C21)	45.47	15.0	"	38.33		119	70-130			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

MHS Environmental, Inc
13-A NW Barry Rd, PMB-192
Kansas City, MO 64155

Work Order: 36I0184

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1162934 - Wet Chem Preparation										
Duplicate (1162934-DUP1)	Source: 36I0184-01			Prepared & Analyzed: 09/29/06						
% Solids	73.9	0.1	%		74.3			0.540	20	
Duplicate (1162934-DUP2)	Source: 1610920-01			Prepared & Analyzed: 09/29/06						
% Solids	83.4	0.1	%		84.6			1.43	20	

REC= Recovery; RPD= Relative Percent Difference

Notes and Definitions

Laboratory Location and Certifications

NT: Newton, IA: Kansas E-10287; Iowa 095; New Jersey (NELAC) 53001
KC:Kansas City, KS: Kansas (NELAC) E-10110; Missouri 00140
WL:Waterloo, IA: Iowa 051

QM-07 The spike recovery and/or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

S-BN Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.

S-BN Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.

End of Report

Keystone Laboratories, Inc.

Jeffrey King, Ph.D.
President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

CHAIN OF CUSTODY RECORD

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PAGE 1 OF 1

PRINT OR TYPE INFORMATION BELOW
SAMPLER: MARK H SCHULZE
SITE NAME: INNER CITY - 31ST
ADDRESS: 3814 E 31ST ST
CITY/ST/ZIP: KANSAS CITY MO
PHONE:

REPORT TO:
NAME: MARK H SCHULZE
COMPANY NAME: MHS ENVIRONMENTAL INC
ADDRESS: 13-A NW BARRY RD, PMB 192
CITY/ST/ZIP: KANSAS CITY, MO 64155
PHONE: 816-734-5021
FAX:

BILL TO:
NAME: MARK H SCHULZE
COMPANY NAME: SAME
ADDRESS:
CITY/ST/ZIP:
PHONE:
Keystone Quote No.: (If Applicable)

LAB USE ONLY
LABORATORY WORK ORDER NO. 16I1328
SAMPLE TEMPERATURE UPON RECEIPT: [illegible] °C
SAMPLE CONDITION/COMMENTS

CLIENT SAMPLE NUMBER	DATE 9-28-06 (all) MHS 9-28-06	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	BTEX	Naphthalene	Oxygenates	EDB / EDC	GRO	DRO	Total Lead	PAHs*	SAMPLE CONDITION/COMMENTS	LABORATORY SAMPLE NUMBER
	9-28-06	1500hr	DG - WALL	5	Soil	G	X	X	X	X	X	X	X			01
	9-28-06	1130hr	10K - North - East	5	Soil	G	X	X	X	X	X	X	X			02
	9-28-06	1145hr	10K - North - WST	5	Soil	G	X	X	X	X	X	X	X			03
	9-28-06	1230hr	10K - South - East	5	Soil	G	X	X	X	X	X	X	X			04
	9-28-06	1300hr	10K - South - WST	5	Soil	G	X	X	X	X	X	X	X			05
	9-28-06	1315hr	4K - East	5	Soil	G	X	X	X	X	X	X	X			06
	9-28-06	1400hr	4K - WST	5	Soil	G	X	X	X	X	X	X	X			07
	9-28-06	1420hr	10K - North - North	5	Soil	G	X	X	X	X	X	X	X			08
	9-28-06	1505hr	4K - South	5	Soil	G	X	X	X	X	X	X	X			09

Relinquished by: (Signature)	Date	Received by: (Signature)	Date	Turn-Around:
Mark H Schulze	9-28-06 Time 1450hr		Time	☒ Standard ☐ Rush ____ Contact Lab Prior to Submission
Relinquished by: (Signature)	Date Time	Received for Lab by: (Signature) [signature]	Date 9/28/06 Time 14:45	Remarks: * PAHs only on samples w/ highest DRO Detections [signature] 9-29-06 12:58

Original - Return with Report • Yellow - Lab Copy • Pink - Sampler Copy

FORM: CCR 7-97

Keystone
LABORATORIES, INC.

ACCREDITED IN ACCORDANCE WITH nelac

MEMBER ACIL

13 October 2006

Mark Schulze
MHS Environmental, Inc.
13-A NW Barry Rd. PMB-192
Kansas City, MO 64155

RE: Missouri RBCA UST
Inner City 31st

Enclosed are the results of analyses for samples received by the laboratory on 09/29/06 12:58. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

Sincerely,

Jeffrey King, Ph.D.
Laboratory Director

Phone 641-792-8451
600 East 17th Street South
Newton, IA 50208
Fax 641-792-7989

Keystone LABORATORIES, INC.

ACCREDITED IN ACCORDANCE WITH nelac

MEMBER ACIL

MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DG-Wall	1611328-01	Soil	09/28/06 15:00	09/29/06 12:58
10K-North-East	1611328-02	Soil	09/28/06 11:30	09/29/06 12:58
10K-North-Wst	1611328-03	Soil	09/28/06 11:45	09/29/06 12:58
10K-South-East	1611328-04	Soil	09/28/06 11:45	09/29/06 12:58
10K-South-Wst	1611328-05	Soil	09/28/06 13:00	09/29/06 12:58
4K-East	1611328-06	Soil	09/28/06 13:00	09/29/06 12:58
4K-Wst	1611328-07	Soil	09/28/06 14:00	09/29/06 12:58
10K-North-North	1611328-08	Soil	09/28/06 14:20	09/29/06 12:58
4K-South	1611328-09	Soil	09/28/06 15:05	09/29/06 12:58

Keystone Laboratories, Inc. - Newton — *The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jeffrey King

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	10/13/06 14:52

DG-Wall
1611328-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.001	mg/kg dry	1	1J60224	09/29/06	10/01/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	ND	0.005	"	"	"	"	"	"	
Benzene	**0.012**	0.001	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.001	"	"	"	"	"	"	
Toluene	**0.018**	0.001	"	"	"	"	"	"	
Ethylbenzene	**0.004**	0.001	"	"	"	"	"	"	
Xylenes, total	**0.014**	0.002	"	"	"	"	"	"	
Naphthalene	ND	0.001	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	0.010	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	0.010	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	0.010	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	0.250	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*120 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*95.3 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	0.5	0.1	mg/kg dry	1	1J60224	"	10/01/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	ND	15.0	mg/kg dry	1	1J61045	10/10/06	10/12/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	15.0	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*48.4 %*	*60-140*		"	"	"	"	S-07
Surrogate: 2-Fluorobiphenyl		*38.6 %*	*60-136*		"	"	"	"	S-07
Surrogate: Terphenyl-d14		*70.3 %*	*60-140*		"	"	"	"	

Keystone Laboratories, Inc. - Newton

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Jeffrey King

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

DG-Wall
1611328-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	79.1	0.1	%	1	1162934	09/29/06	09/29/06	% calculation	
Determination of Total Metals									
Lead, total	15.7	3.8	mg/kg dry	1	1J60308	10/03/06	10/05/06	EPA 6010B	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

10K-North-East
16I1328-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.001	mg/kg dry	1	1J60224	09/29/06	10/02/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	ND	0.005	"	"	"	"	"	"	
Benzene	**0.003**	0.001	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.001	"	"	"	"	"	"	
Toluene	**0.010**	0.001	"	"	"	"	"	"	
Ethylbenzene	**0.002**	0.001	"	"	"	"	"	"	
Xylenes, total	**0.008**	0.002	"	"	"	"	"	"	
Naphthalene	ND	0.001	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	0.010	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	0.010	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	0.010	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	0.250	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*122 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	0.2	0.1	mg/kg dry	1	1J60224	"	10/02/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	ND	15.0	mg/kg dry	1	1J61045	10/10/06	10/12/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	15.0	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*48.5 %*	*60-140*		"	"	"	"	S-07
Surrogate: 2-Fluorobiphenyl		*35.8 %*	*60-136*		"	"	"	"	S-07
Surrogate: Terphenyl-d14		*69.3 %*	*60-140*		"	"	"	"	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

10K-North-East
16I1328-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	79.8	0.1	%	1	1162934	09/29/06	09/29/06	% calculation	
Determination of Total Metals									
Lead, total	17.4	3.7	mg/kg dry	1	1J60308	10/03/06	10/05/06	EPA 6010B	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

10K-North-Wst
1611328-03 (Soil)

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.122	mg/kg dry	50	1J60217	09/29/06	09/30/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	ND	0.610	"	"	"	"	"	"	
Benzene	**2.30**	0.122	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.122	"	"	"	"	"	"	
Toluene	**2.05**	0.122	"	"	"	"	"	"	
Ethylbenzene	**0.231**	0.122	"	"	"	"	"	"	
Xylenes, total	**0.464**	0.244	"	"	"	"	"	"	
Naphthalene	ND	0.122	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	1.22	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	1.22	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	1.22	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	30.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*92.6 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*122 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	ND	12.2	mg/kg dry	50	1J60217	"	09/30/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	ND	43.6	mg/kg dry	1	1J61045	10/10/06	10/13/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	43.6	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*68.6 %*	*60-140*		"	"	"	"	S-BN
Surrogate: 2-Fluorobiphenyl		*56.9 %*	*60-136*		"	"	"	"	
Surrogate: Terphenyl-d14		*71.6 %*	*60-140*		"	"	"	"	

Keystone Laboratories, Inc. - Newton

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Jeffrey King

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

10K-North-Wst
1611328-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	68.4	0.1	%	1	1162934	09/29/06	09/29/06	% calculation	
Determination of Total Metals									
Lead, total	17.9	5.8	mg/kg dry	1	1J60308	10/03/06	10/05/06	EPA 6010B	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	Reported: 10/13/06 14:52

10K-South-East
1611328-04 (Soil)

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.001	mg/kg dry	1	1J60224	09/29/06	10/02/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	ND	0.005	"	"	"	"	"	"	
Benzene	**0.017**	0.001	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.001	"	"	"	"	"	"	
Toluene	**0.019**	0.001	"	"	"	"	"	"	
Ethylbenzene	**0.001**	0.001	"	"	"	"	"	"	
Xylenes, total	**0.005**	0.002	"	"	"	"	"	"	
Naphthalene	ND	0.001	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	0.010	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	0.010	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	0.010	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	0.250	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*118 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*88.5 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	**0.2**	0.1	mg/kg dry	1	1J60224	"	10/02/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	ND	15.0	mg/kg dry	1	1J61045	10/10/06	10/12/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	15.0	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*43.2 %*	*60-140*		"	"	"	"	*S-07*
Surrogate: 2-Fluorobiphenyl		*36.5 %*	*60-136*		"	"	"	"	*S-07*
Surrogate: Terphenyl-dl4		*60.6 %*	*60-140*		"	"	"	"	

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

10K-South-East
1611328-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	79.8	0.1	%	1	1162934	09/29/06	09/29/06	% calculation	
Determination of Total Metals									
Lead, total	14.3	3.6	mg/kg dry	1	1J60308	10/03/06	10/05/06	EPA 6010B	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

10K-South-Wst
16I1328-05 (Soil)

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.001	mg/kg dry	1	1J60224	09/29/06	10/02/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	**0.018**	0.005	"	"	"	"	"	"	
Benzene	**0.004**	0.001	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.001	"	"	"	"	"	"	
Toluene	**0.012**	0.001	"	"	"	"	"	"	
Ethylbenzene	**0.002**	0.001	"	"	"	"	"	"	
Xylenes, total	**0.009**	0.002	"	"	"	"	"	"	
Naphthalene	ND	0.001	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	0.010	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	0.010	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	0.010	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	0.250	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*121 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*91.1 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.8 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	**0.2**	0.1	mg/kg dry	1	1J60224	"	10/02/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	ND	15.0	mg/kg dry	1	1J61045	10/10/06	10/12/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	15.0	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*40.4 %*	*60-140*		"	"	"	"	*S-07*
Surrogate: 2-Fluorobiphenyl		*34.0 %*	*60-136*		"	"	"	"	*S-07*
Surrogate: Terphenyl-d14		*64.2 %*	*60-140*		"	"	"	"	

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

10K-South-Wst
1611328-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	81.6	0.1	%	1	1162934	09/29/06	09/29/06	% calculation	
Determination of Total Metals									
Lead, total	10.2	3.9	mg/kg dry	1	1J60308	10/03/06	10/05/06	EPA 6010B	

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	10/13/06 14:52

4K-East
1611328-06 (Soil)

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.0008	mg/kg dry	1	1J60224	09/29/06	10/02/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	**0.007**	0.004	"	"	"	"	"	"	
Benzene	**0.139**	0.0008	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0008	"	"	"	"	"	"	
Toluene	**0.058**	0.0008	"	"	"	"	"	"	
Ethylbenzene	**0.021**	0.0008	"	"	"	"	"	"	
Xylenes, total	**0.108**	0.002	"	"	"	"	"	"	
Naphthalene	**0.022**	0.0008	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	0.008	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	0.008	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	0.008	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	0.199	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*142 %*	*68-132*		"	"	"	"	*S-04*
Surrogate: Toluene-d8		*93.5 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	**9.2**	0.08	mg/kg dry	1	1J60224	"	10/02/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	ND	29.5	mg/kg dry	1	1J61045	10/10/06	10/13/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	29.5	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*62.8 %*	*60-140*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*53.3 %*	*60-136*		"	"	"	"	*S-BN*
Surrogate: Terphenyl-dl4		*77.8 %*	*60-140*		"	"	"	"	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

4K-East
16I1328-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	78.0	0.1	%	1	1162934	09/29/06	09/29/06	% calculation	
Determination of Total Metals									
Lead, total	13.1	3.8	mg/kg dry	1	1J60308	10/03/06	10/05/06	EPA 6010B	

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4K-Wst
16I1328-07 (Soil)

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.078	mg/kg dry	50	1J60217	09/29/06	09/30/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	ND	0.392	"	"	"	"	"	"	
Benzene	**2.18**	0.078	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.078	"	"	"	"	"	"	
Toluene	**1.07**	0.078	"	"	"	"	"	"	
Ethylbenzene	**0.741**	0.078	"	"	"	"	"	"	
Xylenes, total	**0.839**	0.157	"	"	"	"	"	"	
Naphthalene	ND	0.078	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	0.784	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	0.784	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	0.784	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	19.6	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*121 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*98.6 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	ND	7.8	mg/kg dry	50	1J60217		"	09/30/06	EPA 8260B
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	ND	29.7	mg/kg dry	1	1J61045	10/10/06	10/13/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	29.7	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*63.0 %*	*60-140*		"	"	"	"	*S-BN*
Surrogate: 2-Fluorobiphenyl		*54.4 %*	*60-136*		"	"	"	"	
Surrogate: Terphenyl-d14		*76.8 %*	*60-140*		"	"	"	"	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

4K-Wst
16I1328-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	77.4	0.1	%	1	1162934	09/29/06	09/29/06	% calculation	
Determination of Total Metals									
Lead, total	7.7	3.7	mg/kg dry	1	1160308	10/03/06	10/05/06	EPA 6010B	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	Reported: 10/13/06 14:52

10K-North-North
16I1328-08 (Soil)

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.0008	mg/kg dry	1	1J60224	09/29/06	10/02/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	ND	0.004	"	"	"	"	"	"	
Benzene	**0.050**	0.0008	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0008	"	"	"	"	"	"	
Toluene	**0.048**	0.0008	"	"	"	"	"	"	
Ethylbenzene	**0.004**	0.0008	"	"	"	"	"	"	
Xylenes, total	**0.013**	0.002	"	"	"	"	"	"	
Naphthalene	ND	0.0008	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	0.008	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	0.008	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	0.008	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	0.205	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*129 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*94.2 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	**0.3**	0.08	mg/kg dry	1	1J60224	"	10/02/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	ND	15.0	mg/kg dry	1	1J61045	10/10/06	10/12/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	15.0	"	"	"	"	"	"	S-07
Surrogate: Nitrobenzene-d5		*57.3 %*	*60-140*		"	"	"	"	S-07
Surrogate: 2-Fluorobiphenyl		*53.8 %*	*60-136*		"	"	"	"	
Surrogate: Terphenyl-d14		*75.7 %*	*60-140*		"	"	"	"	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

10K-North-North
1611328-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	79.1	0.1	%	1	1162934	09/29/06	09/29/06	% calculation	
Determination of Total Metals									
Lead, total	11.8	3.9	mg/kg dry	1	1J60308	10/03/06	10/05/06	EPA 6010B	

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4K-South
1611328-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.0008	mg/kg dry	1	1J60224	09/29/06	10/02/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	**0.004**	0.004	"	"	"	"	"	"	
Benzene	**0.004**	0.0008	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0008	"	"	"	"	"	"	
Toluene	**0.010**	0.0008	"	"	"	"	"	"	
Ethylbenzene	**0.002**	0.0008	"	"	"	"	"	"	
Xylenes, total	**0.007**	0.002	"	"	"	"	"	"	
Naphthalene	ND	0.0008	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	0.008	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	0.008	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	0.008	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	0.208	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*70-135*		"	"	"	"	*S-04*
Surrogate: 1,2-Dichloroethane-d4		*136 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	0.4	0.08	mg/kg dry	1	1J60224	"	10/02/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	ND	15.0	mg/kg dry	1	1J61045	10/10/06	10/12/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	15.0	"	"	"	"	"	"	*S-BN*
Surrogate: Nitrobenzene-d5		*50.1 %*	*60-140*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*60.3 %*	*60-136*		"	"	"	"	
Surrogate: Terphenyl-d14		*73.7 %*	*60-140*		"	"	"	"	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

4K-South
16I1328-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	82.3	0.1	%	1	1162934	09/29/06	09/29/06	% calculation	
Determination of Total Metals									
Lead, total	11.4	3.6	mg/kg dry	1	1J60308	10/03/06	10/05/06	EPA 6010B	

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	10/13/06 14:52

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16J0212 - 1J60217										
Calibration Check (16J0212-CCV1)			Prepared: 09/29/06 Analyzed: 09/30/06							
1,2-Dibromoethane	73.26		mg/kg wet	82.00		89.3	80-120			
Methyl-t-butyl Ether (MTBE)	77.19		"	73.00		106	80-120			
Benzene	73.30		"	82.50		88.8	80-120			
1,2-Dichloroethane	62.99		"	72.50		86.9	80-120			
Toluene	60.55		"	65.00		93.2	80-120			
Ethylbenzene	88.47		"	74.00		120	80-120			
Xylenes, total	175.8		"	150.0		117	80-120			
Naphthalene	51.26		"	48.80		105	80-120			
Ethyl-tert-Butyl Ether (ETBE)	59.59		"	59.50		100	80-120			
Di-iso-Propyl Ether (DIPE)	65.37		"	61.00		107	80-120			
tert-Amyl Methyl Ether (TAME)	52.74		"	57.00		92.5	80-120			
tert-Butyl Alcohol (TBA)	1199		"	1200		99.9	80-120			
Surrogate: Dibromofluoromethane	*53.4*		"	*50.00*		*107*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*53.8*		"	*50.00*		*108*	*80-120*			
Surrogate: Toluene-d8	*47.6*		"	*50.00*		*95.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*51.0*		"	*50.00*		*102*	*80-120*			
Batch 16J0219 - 1J60224										
Calibration Check (16J0219-CCV1)			Prepared: 09/29/06 Analyzed: 10/01/06							
1,2-Dibromoethane	66.15		mg/kg wet	82.00		80.7	80-120			
Methyl-t-butyl Ether (MTBE)	71.06		"	73.00		97.3	80-120			
Benzene	76.79		"	82.50		93.1	80-120			
1,2-Dichloroethane	67.04		"	72.50		92.5	80-120			
Toluene	57.14		"	65.00		87.9	80-120			
Ethylbenzene	78.82		"	74.00		107	80-120			
Xylenes, total	162.2		"	150.0		108	80-120			
Naphthalene	51.51		"	48.80		106	80-120			
Ethyl-tert-Butyl Ether (ETBE)	57.92		"	59.50		97.3	80-120			
Di-iso-Propyl Ether (DIPE)	59.39		"	61.00		97.4	80-120			
tert-Amyl Methyl Ether (TAME)	50.69		"	57.00		88.9	80-120			
tert-Butyl Alcohol (TBA)	1168		"	1200		97.3	80-120			
Surrogate: Dibromofluoromethane	*54.9*		"	*50.00*		*110*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*54.2*		"	*50.00*		*108*	*80-120*			
Surrogate: Toluene-d8	*45.6*		"	*50.00*		*91.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*51.2*		"	*50.00*		*102*	*80-120*			

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J60217 - EPA 5030B										
Blank (1J60217-BLK1)				Prepared: 09/29/06 Analyzed: 09/30/06						
1,2-Dibromoethane	ND	0.200	mg/kg wet							
Methyl-t-butyl Ether (MTBE)	ND	1.00	"							
Benzene	ND	0.200	"							
1,2-Dichloroethane	ND	0.200	"							
Toluene	ND	0.200	"							
Ethylbenzene	ND	0.200	"							
Xylenes, total	ND	0.400	"							
Naphthalene	ND	0.200	"							
Ethyl-tert-Butyl Ether (ETBE)	ND	2.00	"							
Di-iso-Propyl Ether (DIPE)	ND	2.00	"							
tert-Amyl Methyl Ether (TAME)	ND	2.00	"							
tert-Butyl Alcohol (TBA)	ND	50.0	"							
Surrogate: Dibromofluoromethane	*0.106*		"	*0.1000*		*106*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.101*		"	*0.1000*		*101*	*68-132*			
Surrogate: Toluene-d8	*0.0884*		"	*0.1000*		*88.4*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.102*		"	*0.1000*		*102*	*72-127*			
LCS (1J60217-BS1)				Prepared: 09/29/06 Analyzed: 09/30/06						
1,2-Dibromoethane	8.566	0.200	mg/kg wet	9.828		87.2	60-140			30
Methyl-t-butyl Ether (MTBE)	8.250	1.00	"	9.436		87.4	52-145			18
Benzene	9.736	0.200	"	9.884		98.5	61-140			23
1,2-Dichloroethane	7.616	0.200	"	8.456		90.1	71-135			20
Toluene	9.168	0.200	"	9.268		98.9	76-140			17
Ethylbenzene	11.31	0.200	"	9.464		120	72-140			24
Xylenes, total	22.10	0.400	"	18.96		117	76-132			23
Naphthalene	4.966	0.200	"	5.096		97.4	50-148			22
Ethyl-tert-Butyl Ether (ETBE)	7.578	2.00	"	8.148		93.0	60-140			30
Di-iso-Propyl Ether (DIPE)	8.470	2.00	"	8.540		99.2	60-140			30
tert-Amyl Methyl Ether (TAME)	7.036	2.00	"	8.092		87.0	60-140			30
tert-Butyl Alcohol (TBA)	152.4	50.0	"	144.3		106	60-140			30
Surrogate: Dibromofluoromethane	*0.109*		"	*0.1000*		*109*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.106*		"	*0.1000*		*106*	*68-132*			
Surrogate: Toluene-d8	*0.0978*		"	*0.1000*		*97.8*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.105*		"	*0.1000*		*105*	*72-127*			

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st	**Reported:**
Kansas City MO, 64155	Project Manager: Mark Schulze	10/13/06 14:52

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J60217 - EPA 5030B										
Matrix Spike (1J60217-MS1)	Source: 1610977-05			Prepared: 09/29/06 Analyzed: 09/30/06						
1,2-Dibromoethane	8.664	0.200	mg/kg wet	9.828	ND	88.2	62-133		23	
Methyl-t-butyl Ether (MTBE)	8.856	1.00	"	9.436	ND	93.9	50-150		23	
Benzene	10.32	0.200	"	9.884	ND	104	60-140		27	
1,2-Dichloroethane	8.068	0.200	"	8.456	ND	95.4	65-138		23	
Toluene	9.602	0.200	"	9.268	ND	104	63-140		29	
Ethylbenzene	12.35	0.200	"	9.464	ND	130	56-150		29	
Xylenes, total	24.01	0.400	"	18.96	ND	127	57-142		28	
Naphthalene	5.546	0.200	"	5.096	ND	109	50-150		30	
Ethyl-tert-Butyl Ether (ETBE)	8.274	2.00	"	8.148	ND	102	60-140		30	
Di-iso-Propyl Ether (DIPE)	9.034	2.00	"	8.540	ND	106	60-140		30	
tert-Amyl Methyl Ether (TAME)	7.552	2.00	"	8.092	ND	93.3	60-140		30	
tert-Butyl Alcohol (TBA)	166.4	50.0	"	144.3	ND	115	60-140		30	
Surrogate: Dibromofluoromethane	*0.101*		"	*0.1000*		*101*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.106*		"	*0.1000*		*106*	*68-132*			
Surrogate: Toluene-d8	*0.0949*		"	*0.1000*		*94.9*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.102*		"	*0.1000*		*102*	*72-127*			
Matrix Spike Dup (1J60217-MSD1)	Source: 1610977-05			Prepared: 09/29/06 Analyzed: 09/30/06						
1,2-Dibromoethane	7.776	0.200	mg/kg wet	9.808	ND	79.3	62-133	10.8	23	
Methyl-t-butyl Ether (MTBE)	8.190	0.998	"	9.417	ND	87.0	50-150	7.81	23	
Benzene	9.982	0.200	"	9.864	ND	101	60-140	3.33	27	
1,2-Dichloroethane	7.623	0.200	"	8.439	ND	90.3	65-138	5.67	23	
Toluene	8.321	0.200	"	9.250	ND	90.0	63-140	14.3	29	
Ethylbenzene	11.55	0.200	"	9.445	ND	122	56-150	6.69	29	
Xylenes, total	22.91	0.399	"	18.92	ND	121	57-142	4.69	28	
Naphthalene	4.998	0.200	"	5.086	ND	98.3	50-150	10.4	30	
Ethyl-tert-Butyl Ether (ETBE)	7.218	2.00	"	8.132	ND	88.8	60-140	13.6	30	
Di-iso-Propyl Ether (DIPE)	8.148	2.00	"	8.523	ND	95.6	60-140	10.3	30	
tert-Amyl Methyl Ether (TAME)	7.531	2.00	"	8.076	ND	93.3	60-140	0.278	30	
tert-Butyl Alcohol (TBA)	145.1	49.9	"	144.1	ND	101	60-140	13.7	30	
Surrogate: Dibromofluoromethane	*0.103*		"	*0.0998*		*103*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.117*		"	*0.0998*		*117*	*68-132*			
Surrogate: Toluene-d8	*0.0916*		"	*0.0998*		*91.8*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.102*		"	*0.0998*		*102*	*72-127*			

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	Reported: 10/13/06 14:52

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J60224 - EPA 5030B										
Blank (1J60224-BLK1)				Prepared: 09/29/06 Analyzed: 10/01/06						
1,2-Dibromoethane	ND	0.001	mg/kg wet							
Methyl-t-butyl Ether (MTBE)	ND	0.005	"							
Benzene	ND	0.001	"							
1,2-Dichloroethane	ND	0.001	"							
Toluene	ND	0.001	"							
Ethylbenzene	ND	0.001	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.001	"							
Ethyl-tert-Butyl Ether (ETBE)	ND	0.010	"							
Di-iso-Propyl Ether (DIPE)	ND	0.010	"							
tert-Amyl Methyl Ether (TAME)	ND	0.010	"							
tert-Butyl Alcohol (TBA)	ND	0.250	"							
Surrogate: Dibromofluoromethane	*0.0521*		"	*0.0500*		*104*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.0517*		"	*0.0500*		*103*	*68-132*			
Surrogate: Toluene-d8	*0.0499*		"	*0.0500*		*99.8*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.0500*		"	*0.0500*		*100*	*72-127*			
LCS (1J60224-BS1)				Prepared: 09/29/06 Analyzed: 10/01/06						
1,2-Dibromoethane	0.0585	0.001	mg/kg wet	0.0702		83.3	60-140			30
Methyl-t-butyl Ether (MTBE)	0.0782	0.005	"	0.0674		116	52-145			18
Benzene	0.0732	0.001	"	0.0706		104	61-140			23
1,2-Dichloroethane	0.0648	0.001	"	0.0604		107	71-135			20
Toluene	0.0640	0.001	"	0.0662		96.7	76-140			17
Ethylbenzene	0.0783	0.001	"	0.0676		116	72-140			24
Xylenes, total	0.1641	0.002	"	0.1354		121	76-132			23
Naphthalene	0.0435	0.001	"	0.0364		120	50-148			22
Ethyl-tert-Butyl Ether (ETBE)	0.0666	0.010	"	0.0582		114	60-140			30
Di-iso-Propyl Ether (DIPE)	0.0684	0.010	"	0.0610		112	60-140			30
tert-Amyl Methyl Ether (TAME)	0.0568	0.010	"	0.0578		98.3	60-140			30
tert-Butyl Alcohol (TBA)	1.342	0.250	"	1.031		130	60-140			30
Surrogate: Dibromofluoromethane	*0.0560*		"	*0.0500*		*112*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.0531*		"	*0.0500*		*106*	*68-132*			
Surrogate: Toluene-d8	*0.0451*		"	*0.0500*		*90.2*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.0552*		"	*0.0500*		*110*	*72-127*			

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	10/13/06 14:52

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J60224 - EPA 5030B										
Matrix Spike (1J60224-MS1)	Source: 16I0977-01			Prepared: 09/29/06 Analyzed: 10/01/06						
1,2-Dibromoethane	0.2309	0.005	mg/kg wet	0.3311	ND	69.7	62-133		23	
Methyl-t-butyl Ether (MTBE)	0.3011	0.024	"	0.3179	ND	94.7	50-150		23	
Benzene	0.1821	0.005	"	0.3330	ND	54.7	60-140		27	QM-05
1,2-Dichloroethane	0.2745	0.005	"	0.2849	ND	96.3	65-138		23	
Toluene	0.1007	0.005	"	0.3123	ND	32.2	63-140		29	QM-05
Ethylbenzene	0.2117	0.005	"	0.3189	ND	66.4	56-150		29	
Xylenes, total	0.3004	0.009	"	0.6387	ND	47.0	57-142		28	QM-05
Naphthalene	0.0081	0.005	"	0.1717	ND	4.72	50-150		30	QM-05
Ethyl-tert-Butyl Ether (ETBE)	0.2782	0.047	"	0.2745	ND	101	60-140		30	
Di-iso-Propyl Ether (DIPE)	0.2846	0.047	"	0.2877	ND	98.9	60-140		30	
tert-Amyl Methyl Ether (TAME)	0.2449	0.047	"	0.2726	ND	89.8	60-140		30	
tert-Butyl Alcohol (TBA)	5.609	1.18	"	4.863	ND	115	60-140		30	
Surrogate: Dibromofluoromethane	*0.262*		"	*0.2358*		*111*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.249*		"	*0.2358*		*106*	*68-132*			
Surrogate: Toluene-d8	*0.225*		"	*0.2358*		*95.4*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.251*		"	*0.2358*		*106*	*72-127*			
Matrix Spike Dup (1J60224-MSD1)	Source: 16I0977-01			Prepared: 09/29/06 Analyzed: 10/01/06						
1,2-Dibromoethane	0.2900	0.005	mg/kg wet	0.3375	ND	85.9	62-133	22.7	23	
Methyl-t-butyl Ether (MTBE)	0.3353	0.024	"	0.3240	ND	103	50-150	10.7	23	
Benzene	0.1751	0.005	"	0.3394	ND	51.6	60-140	3.92	27	QM-05
1,2-Dichloroethane	0.2977	0.005	"	0.2904	ND	103	65-138	8.11	23	
Toluene	0.1095	0.005	"	0.3183	ND	34.4	63-140	8.37	29	QM-05
Ethylbenzene	0.2112	0.005	"	0.3250	ND	65.0	56-150	0.236	29	
Xylenes, total	0.3236	0.010	"	0.6510	ND	49.7	57-142	7.44	28	QM-05
Naphthalene	ND	0.005	"	0.1750	ND		50-150		30	QM-05
Ethyl-tert-Butyl Ether (ETBE)	0.2965	0.048	"	0.2798	ND	106	60-140	6.37	30	
Di-iso-Propyl Ether (DIPE)	0.3121	0.048	"	0.2933	ND	106	60-140	9.22	30	
tert-Amyl Methyl Ether (TAME)	0.2693	0.048	"	0.2779	ND	96.9	60-140	9.49	30	
tert-Butyl Alcohol (TBA)	5.977	1.20	"	4.957	ND	121	60-140	6.35	30	
Surrogate: Dibromofluoromethane	*0.265*		"	*0.2404*		*110*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.265*		"	*0.2404*		*110*	*68-132*			
Surrogate: Toluene-d8	*0.237*		"	*0.2404*		*98.6*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.249*		"	*0.2404*		*104*	*72-127*			

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

Determination of Total Petroleum Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16J0212 - 1J60217										
Calibration Check (16J0212-CCV2)				Prepared: 09/29/06 Analyzed: 10/01/06						
TPH-GRO (C6-C10)	464.1		mg/kg wet	500.0		92.8	80-120			
Batch 1J60217 - EPA 5030B										
Blank (1J60217-BLK1)				Prepared: 09/29/06 Analyzed: 09/30/06						
TPH-GRO (C6-C10)	ND	20.0	mg/kg wet							
Batch 1J60224 - EPA 5030B										
Blank (1J60224-BLK1)				Prepared: 09/29/06 Analyzed: 10/01/06						
TPH-GRO (C6-C10)	ND	0.1	mg/kg wet							

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	Reported: 10/13/06 14:52

Determination of Extractable Petroleum Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16J1303 - 1J61045										
Calibration Check (16J1303-CCV1)			Prepared & Analyzed: 10/12/06							
TPH-DRO (C10-C21)	1258		mg/kg wet	1210		104	80-120			
Surrogate: Nitrobenzene-d5	*38.8*		"	*41.15*		*94.3*	*80-120*			
Surrogate: 2-Fluorobiphenyl	*41.1*		"	*41.20*		*99.8*	*80-120*			
Surrogate: Terphenyl-dl4	*41.5*		"	*41.11*		*101*	*80-120*			
Batch 1J61045 - 3545 BNA PFE										
Blank (1J61045-BLK1)			Prepared: 10/10/06 Analyzed: 10/12/06							
TPH-DRO (C10-C21)	ND	15.0	mg/kg wet							
TPH-ORO (C21-C35)	ND	15.0	"							
Surrogate: Nitrobenzene-d5	*1.90*		"	*3.00*		*63.3*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2.23*		"	*3.02*		*73.8*	*60-136*			
Surrogate: Terphenyl-dl4	*2.38*		"	*3.00*		*79.3*	*60-140*			
LCS (1J61045-BS1)			Prepared: 10/10/06 Analyzed: 10/12/06							
TPH-DRO (C10-C21)	43.47	15.0	mg/kg wet	38.33		113	70-130		30	
Surrogate: Nitrobenzene-d5	*1.86*		"	*3.00*		*62.0*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2.75*		"	*3.02*		*91.1*	*60-136*			
Surrogate: Terphenyl-dl4	*2.60*		"	*3.00*		*86.7*	*60-140*			
Matrix Spike (1J61045-MS1)		Source: 1611328-01		Prepared: 10/10/06 Analyzed: 10/12/06						
TPH-DRO (C10-C21)	49.90	15.0	mg/kg dry	48.43	ND	103	70-130		30	
Surrogate: Nitrobenzene-d5	*2.08*		"	*3.79*		*54.9*	*60-140*			*S-BN*
Surrogate: 2-Fluorobiphenyl	*2.39*		"	*3.81*		*62.7*	*60-136*			
Surrogate: Terphenyl-dl4	*2.74*		"	*3.79*		*72.3*	*60-140*			
Matrix Spike Dup (1J61045-MSD1)		Source: 1611328-01		Prepared: 10/10/06 Analyzed: 10/12/06						
TPH-DRO (C10-C21)	51.87	15.0	mg/kg dry	48.38	ND	107	70-130	3.87	30	
Surrogate: Nitrobenzene-d5	*2.10*		"	*3.79*		*55.4*	*60-140*			*S-BN*
Surrogate: 2-Fluorobiphenyl	*2.49*		"	*3.81*		*65.4*	*60-136*			
Surrogate: Terphenyl-dl4	*2.45*		"	*3.79*		*64.6*	*60-140*			

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

Determination of Extractable Petroleum Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J61045 - 3545 BNA PFE										
Reference (1J61045-SRM1)				Prepared: 10/10/06 Analyzed: 10/13/06						
TPH-DRO (C10-C21)	51.27	15.0	mg/kg wet	38.33		134	70-130			QR-05
Surrogate: Nitrobenzene-d5	*2.46*		"	*3.00*		*82.0*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*4.03*		"	*3.02*		*133*	*60-136*			
Surrogate: Terphenyl-d14	*2.63*		"	*3.00*		*87.7*	*60-140*			

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13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st	**Reported:**
Kansas City MO, 64155	Project Manager: Mark Schulze	10/13/06 14:52

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1162934 - Wet Chem Preparation										
Duplicate (1162934-DUP1)		**Source: 16I1327-01**		Prepared & Analyzed: 09/29/06						
% Solids	73.9	0.1	%		74.3			0.540	20	
Duplicate (1162934-DUP2)		**Source: 16I0920-01**		Prepared & Analyzed: 09/29/06						
% Solids	83.4	0.1	%		84.6			1.43	20	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16J0505 - 1J60308										
Calibration Blank (16J0505-CCB1)				Prepared & Analyzed: 10/05/06						
Lead, total	0.001		mg/l	0.000						
Calibration Blank (16J0505-CCB2)				Prepared & Analyzed: 10/05/06						
Lead, total	-0.004		mg/l	0.000						
Calibration Blank (16J0505-CCB3)				Prepared & Analyzed: 10/05/06						
Lead, total	0.00		mg/l	0.000						
Calibration Blank (16J0505-CCB4)				Prepared & Analyzed: 10/05/06						
Lead, total	-0.002		mg/l	0.000						
Calibration Blank (16J0505-CCB5)				Prepared & Analyzed: 10/05/06						
Lead, total	-0.002		mg/l	0.000						
Calibration Check (16J0505-CCV1)				Prepared & Analyzed: 10/05/06						
Lead, total	0.984		mg/l	1.000		98.4	90-110			
Calibration Check (16J0505-CCV2)				Prepared & Analyzed: 10/05/06						
Lead, total	0.980		mg/l	1.000		98.0	90-110			
Calibration Check (16J0505-CCV3)				Prepared & Analyzed: 10/05/06						
Lead, total	0.967		mg/l	1.000		96.7	90-110			
Calibration Check (16J0505-CCV4)				Prepared & Analyzed: 10/05/06						
Lead, total	0.956		mg/l	1.000		95.6	90-110			
Calibration Check (16J0505-CCV5)				Prepared & Analyzed: 10/05/06						
Lead, total	0.961		mg/l	1.000		96.1	90-110			

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13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	10/13/06 14:52

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16J0505 - 1J60308										
High Cal Check (16J0505-HCV2)				Prepared & Analyzed: 10/05/06						
Lead, total	18.5		mg/l	20.00		92.5	90-110			
Initial Cal Blank (16J0505-ICB1)				Prepared & Analyzed: 10/05/06						
Lead, total	-0.0006		mg/l	0.000						
Initial Cal Check (16J0505-ICV1)				Prepared & Analyzed: 10/05/06						
Lead, total	0.961		mg/l	1.000		96.1	90-110			
Secondary Cal Check (16J0505-SCV1)				Prepared & Analyzed: 10/05/06						
Lead, total	0.497		mg/l	0.500		99.4	90-110			
Batch 1J60308 - EPA 3050B Solid Dig										
Blank (1J60308-BLK1)				Prepared: 10/03/06 Analyzed: 10/05/06						
Lead, total	ND	0.05	mg/kg wet							
LCS (1J60308-BS1)				Prepared: 10/03/06 Analyzed: 10/05/06						
Lead, total	1.9	0.05	mg/kg wet	2.00		95.0	87-115		20	
Matrix Spike (1J60308-MS1)	Source: 1611328-09			Prepared: 10/03/06 Analyzed: 10/05/06						
Lead, total	154	3.5	mg/kg dry	172.3	11.4	82.8	68-111		22	
Matrix Spike Dup (1J60308-MSD1)	Source: 1611328-09			Prepared: 10/03/06 Analyzed: 10/05/06						
Lead, total	156	3.6	mg/kg dry	173.6	11.4	83.3	68-111	1.29	22	
Post Spike (1J60308-PS1)	Source: 1611328-09			Prepared: 10/03/06 Analyzed: 10/05/06						
Lead, total	160	3.6	mg/kg dry	173.6	11.4	85.6	60-133		20	

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st Project Manager: Mark Schulze	**Reported:** 10/13/06 14:52

Notes and Definitions

S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
S-07	The surrogate recovery for this sample is outside of established control limits
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect
QR-05	The reference standard was outside of established control limits. The batch was accepted based on acceptable LCS, MS/MSD and RPD results.
QM-05	The spike recovery and/or RPD was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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CHAIN OF CUSTODY RECORD

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PAGE ____ OF ____

PRINT OR TYPE INFORMATION BELOW

SAMPLER: Mark H Schulze
SITE NAME: Inner City- 31st
ADDRESS: 3814 E 31st
CITY/ST/ZIP: Kansas City, MO
PHONE:

REPORT TO:
NAME: Mark H Schulze
COMPANY NAME: MHS Environmental, Inc
ADDRESS: 13-A NW Barry Rd, PMB192
CITY/ST/ZIP: Kansas City, MO 64155
PHONE: 816-734-5021
FAX:

BILL TO:
NAME: Mark H Schulze
COMPANY NAME: Same
ADDRESS:
CITY/ST/ZIP:
PHONE:

Keystone Quote No.: (If Applicable)

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION (MHS)	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	BTEX	Naphthalene	Oxygenates	EDB/EDC	GRO	DRO	Lead	PAHs*	LABORATORY SAMPLE NUMBER
	10/11/06	1030hr	P-1	5	Soil	G	X	X	X	X	X	X	X		01
	10/11/06	1045hr	P-2	5	Soil	G	X	X	X	X	X	X	X		02
	10/11/06	1100hr	P-3	5	Soil	G	X	X	X	X	X	X	X		03
	10/11/06	1130hr	WASTE 5 - EAST	5	Soil	G	X	X	X	X	X	X	X		04

ANALYSES REQUIRED

LAB USE ONLY

LABORATORY WORK ORDER NO.: 16J0573

SAMPLE TEMPERATURE UPON RECEIPT: ONICE

SAMPLE CONDITION COMMENTS:

Relinquished by: (Signature)	Date	Received by: (Signature)	Date
Mark H Schulze	10-11-06		
	Time 1410hr		Time
Relinquished by: (Signature)	Date	Received for Lab by: (Signature)	Date 10/11/06
	Time		Time 14:10

Turn-Around: ☑ Standard ☐ Rush ____ Contact Lab Prior to Submission

Remarks: PAH Analysis on highest DRO Detection of P1, P2 or P3

Original - Return with Report • Yellow - Lab Copy • Pink - Sampler Copy

FORM: CCR 7-97

10/12/06 1:36

Keystone
LABORATORIES, INC.

ACCREDITED IN ACCORDANCE WITH nelac

MEMBER ACIL

07 November 2006

Mark Schulze
MHS Environmental, Inc.
13-A NW Barry Rd. PMB-192
Kansas City, MO 64155

RE: Missouri RBCA UST
Inner City-31st

Enclosed are the results of analyses for samples received by the laboratory on 10/12/06 13:36. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

Sincerely,

Jeffrey King, Ph.D.
Laboratory Director

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Newton, IA 50208
Fax 641-792-7989

Keystone
LABORATORIES, INC.

ACCREDITED IN ACCORDANCE WITH nelac

MEMBER ACIL

MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City-31st Project Manager: Mark Schulze	**Reported:** 11/07/06 15:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P-1	16J0573-01	Soil	10/11/06 10:30	10/12/06 13:36
P-2	16J0573-02	Soil	10/11/06 10:45	10/12/06 13:36
P-3	16J0573-03	Soil	10/11/06 11:00	10/12/06 13:36
Waste5-East	16J0573-04	Soil	10/11/06 11:30	10/12/06 13:36

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City-31st Project Manager: Mark Schulze	Reported: 11/07/06 15:43

P-1
16J0573-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.083	mg/kg dry	50	1J61705	10/13/06	10/14/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	ND	0.415	"	"	"	"	"	"	
Benzene	1.98	0.083	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.083	"	"	"	"	"	"	
Toluene	ND	0.083	"	"	"	"	"	"	
Ethylbenzene	2.85	0.083	"	"	"	"	"	"	
Xylenes, total	6.36	0.166	"	"	"	"	"	"	
Naphthalene	1.08	0.083	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	0.829	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	0.829	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	0.829	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	20.7	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*		*70-135*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.4 %*		*68-132*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*73-123*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*		*72-127*	"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	132	8.3	mg/kg dry	50	1J61705	"	10/14/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	33.2	15.0	mg/kg dry	1	1J62423	10/24/06	10/30/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	15.0	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*78.4 %*		*60-140*	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*61.7 %*		*60-136*	"	"	"	"	
Surrogate: Terphenyl-dl4		*112 %*		*60-140*	"	"	"	"	

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Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City-31st Project Manager: Mark Schulze	**Reported:** 11/07/06 15:43

P-1

16J0573-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	81.7	0.1	%	1	1J61326	10/13/06	10/13/06	% calculation	
Determination of Total Metals									
Lead, total	14.8	3.8	mg/kg dry	1	1J61602	10/16/06	10/17/06	EPA 6010B	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City-31st Project Manager: Mark Schulze	Reported: 11/07/06 15:43

P-2
16J0573-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	1.56	mg/kg dry	1000	1J61726	10/16/06	10/17/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	ND	7.82	"	"	"	"	"	"	
Benzene	11.5	1.56	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.56	"	"	"	"	"	"	
Toluene	244	1.56	"	"	"	"	"	"	
Ethylbenzene	96.6	1.56	"	"	"	"	"	"	
Xylenes, total	626	3.13	"	"	"	"	"	"	
Naphthalene	45.5	1.56	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	15.6	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	15.6	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	15.6	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	391	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*96.7 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	**5410**	156	mg/kg dry	1000	1J61726	"	10/17/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	**194**	75.0	mg/kg dry	5	1J62423	10/24/06	10/30/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	75.0	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*60.7 %*	*60-140*		"	"	"	"	*S-BN*
Surrogate: 2-Fluorobiphenyl		*48.8 %*	*60-136*		"	"	"	"	
Surrogate: Terphenyl-dl4		*79.8 %*	*60-140*		"	"	"	"	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City-31st Project Manager: Mark Schulze	**Reported:** 11/07/06 15:43

P-2

16J0573-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	80.2	0.1	%	1	1J61326	10/13/06	10/13/06	% calculation	
Determination of Total Metals									
Lead, total	17.6	3.8	mg/kg dry	1	1J61602	10/16/06	10/17/06	EPA 6010B	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City-31st Project Manager: Mark Schulze	**Reported:** 11/07/06 15:43

P-3

16J0573-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.086	mg/kg dry	50	1J61705	10/13/06	10/14/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	ND	0.428	"	"	"	"	"	"	
Benzene	1.85	0.086	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.086	"	"	"	"	"	"	
Toluene	0.540	0.086	"	"	"	"	"	"	
Ethylbenzene	11.3	0.086	"	"	"	"	"	"	
Xylenes, total	12.3	0.171	"	"	"	"	"	"	
Naphthalene	8.62	0.086	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	0.856	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	0.856	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	0.856	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	21.4	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.5 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.7 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	673	8.6	mg/kg dry	50	1J61705	"	10/14/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	280	150	mg/kg dry	10	1J62423	10/24/06	10/30/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	150	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*0 %*	*60-140*		"	"	"	"	S-06
Surrogate: 2-Fluorobiphenyl		*52.6 %*	*60-136*		"	"	"	"	S-06
Surrogate: Terphenyl-dl4		*110 %*	*60-140*		"	"	"	"	

Keystone Laboratories, Inc. - Newton

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P-3

16J0573-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	77.8	0.1	%	1	1361326	10/13/06	10/13/06	% calculation	
Determination of Total Metals									
Lead, total	18.9	3.6	mg/kg dry	1	1361602	10/16/06	10/17/06	EPA 6010B	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City-31st Project Manager: Mark Schulze	**Reported:** 11/07/06 15:43

Waste5-East
16J0573-04 (Soil)

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.761	mg/kg dry	500	1J61726	10/16/06	10/17/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	ND	3.81	"	"	"	"	"	"	
Benzene	8.43	0.761	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.761	"	"	"	"	"	"	
Toluene	130	0.761	"	"	"	"	"	"	
Ethylbenzene	51.1	0.761	"	"	"	"	"	"	
Xylenes, total	346	1.52	"	"	"	"	"	"	
Naphthalene	27.4	0.761	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	7.61	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	7.61	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	7.61	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	190	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*98.9 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	2430	76.1	mg/kg dry	500	1J61726	"	10/17/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	552	300	mg/kg dry	20	1J62423	10/24/06	10/30/06	EPA 8270C	
TPH-ORO (C21-C35)	3530	300	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*76.3 %*	*60-140*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*63.3 %*	*60-136*		"	"	"	"	S-BN
Surrogate: Terphenyl-dl4		*172 %*	*60-140*		"	"	"	"	

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City-31st Project Manager: Mark Schulze	**Reported:** 11/07/06 15:43

Waste5-East
16J0573-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Polynuclear Aromatic Hydrocarbons									
Naphthalene	ND	6600	ug/kg dry	20	1J62423	10/24/06	10/30/06	EPA 8270C	
Acenaphthene	ND	6600	"	"	"	"	"	"	
Fluorene	ND	6600	"	"	"	"	"	"	
Anthracene	ND	6600	"	"	"	"	"	"	
Fluoranthene	ND	6600	"	"	"	"	"	"	
Pyrene	ND	6600	"	"	"	"	"	"	
Benzo(a)anthracene	ND	6600	"	"	"	"	"	"	
Chrysene	ND	6600	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	6600	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	6600	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	6600	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	6600	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*76.4 %*	*60-140*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*63.4 %*	*60-136*		"	"	"	"	
Surrogate: Terphenyl-dl4		*172 %*	*60-140*		"	"	"	"	*S-06*
Determination of Conventional Chemistry Parameters									
% Solids	80.8	0.1	%	1	1J61326	10/13/06	10/13/06	% calculation	
Determination of Total Metals									
Lead, total	21.2	3.8	mg/kg dry	1	1J61602	10/16/06	10/17/06	EPA 6010B	

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City-31st Project Manager: Mark Schulze	Reported: 11/07/06 15:43

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J61705 - EPA 5030B										
Blank (1J61705-BLK1) Prepared & Analyzed: 10/13/06										
1,2-Dibromoethane	ND	0.100	mg/kg wet							
Methyl-t-butyl Ether (MTBE)	ND	0.500	"							
Benzene	ND	0.100	"							
1,2-Dichloroethane	ND	0.100	"							
Toluene	ND	0.100	"							
Ethylbenzene	ND	0.100	"							
Xylenes, total	ND	0.200	"							
Naphthalene	ND	0.100	"							
Ethyl-tert-Butyl Ether (ETBE)	ND	1.00	"							
Di-iso-Propyl Ether (DIPE)	ND	1.00	"							
tert-Amyl Methyl Ether (TAME)	ND	1.00	"							
tert-Butyl Alcohol (TBA)	ND	25.0	"							
Surrogate: Dibromofluoromethane	*0.101*		"	*0.1000*		*101*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.0993*		"	*0.1000*		*99.3*	*68-132*			
Surrogate: Toluene-d8	*0.103*		"	*0.1000*		*103*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.117*		"	*0.1000*		*117*	*72-127*			
LCS (1J61705-BS1) Prepared & Analyzed: 10/13/06										
1,2-Dibromoethane	8.932	0.100	mg/kg wet	9.828		90.9	60-140		30	
Methyl-t-butyl Ether (MTBE)	8.761	0.500	"	9.436		92.8	52-145		18	
Benzene	9.834	0.100	"	9.884		99.5	61-140		23	
1,2-Dichloroethane	8.176	0.100	"	8.456		96.7	71-135		20	
Toluene	9.335	0.100	"	9.268		101	76-140		17	
Ethylbenzene	9.913	0.100	"	9.464		105	72-140		24	
Xylenes, total	19.08	0.200	"	18.96		101	76-132		23	
Naphthalene	5.418	0.100	"	5.096		106	50-148		22	
Ethyl-tert-Butyl Ether (ETBE)	7.967	1.00	"	8.148		97.8	60-140		30	
Di-iso-Propyl Ether (DIPE)	8.862	1.00	"	8.540		104	60-140		30	
tert-Amyl Methyl Ether (TAME)	7.456	1.00	"	8.092		92.1	60-140		30	
tert-Butyl Alcohol (TBA)	115.2	25.0	"	144.3		79.8	60-140		30	
Surrogate: Dibromofluoromethane	*0.101*		"	*0.1000*		*101*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.0970*		"	*0.1000*		*97.0*	*68-132*			
Surrogate: Toluene-d8	*0.101*		"	*0.1000*		*101*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.104*		"	*0.1000*		*104*	*72-127*			

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City-31st Project Manager: Mark Schulze	**Reported:** 11/07/06 15:43

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J61705 - EPA 5030B										
Matrix Spike (1J61705-MS1)	Source: 16J0257-22RE1 Prepared & Analyzed: 10/13/06									
1,2-Dibromoethane	8.371	0.197	mg/kg wet	9.692	ND	86.4	62-133		23	
Methyl-t-butyl Ether (MTBE)	7.858	0.986	"	9.306	ND	84.4	50-150		23	
Benzene	10.38	0.197	"	9.748	0.309	103	60-140		27	
1,2-Dichloroethane	8.371	0.197	"	8.339	ND	100	65-138		23	
Toluene	42.55	0.197	"	9.140	28.8	150	63-140		29	QM-05
Ethylbenzene	24.65	0.197	"	9.333	12.5	130	56-150		29	
Xylenes, total	86.28	0.394	"	18.69	53.7	174	57-142		28	QM-05
Naphthalene	10.30	0.197	"	5.026	3.30	139	50-150		30	
Ethyl-tert-Butyl Ether (ETBE)	7.256	1.97	"	8.036	ND	90.3	60-140		30	
Di-iso-Propyl Ether (DIPE)	8.533	1.97	"	8.422	ND	101	60-140		30	
tert-Amyl Methyl Ether (TAME)	6.968	1.97	"	7.980	ND	87.3	60-140		30	
tert-Butyl Alcohol (TBA)	112.0	49.3	"	142.3	ND	78.7	60-140		30	
Surrogate: Dibromofluoromethane	*0.0979*		"	*0.0986*		*99.3*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.0984*		"	*0.0986*		*99.8*	*68-132*			
Surrogate: Toluene-d8	*0.0983*		"	*0.0986*		*99.7*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.0939*		"	*0.0986*		*95.2*	*72-127*			
Matrix Spike Dup (1J61705-MSD1)	Source: 16J0257-22RE1 Prepared & Analyzed: 10/13/06									
1,2-Dibromoethane	8.053	0.197	mg/kg wet	9.673	ND	83.3	62-133	3.87	23	
Methyl-t-butyl Ether (MTBE)	7.423	0.984	"	9.287	ND	79.9	50-150	5.69	23	
Benzene	9.642	0.197	"	9.728	0.309	95.9	60-140	7.37	27	
1,2-Dichloroethane	7.783	0.197	"	8.323	ND	93.5	65-138	7.28	23	
Toluene	32.31	0.197	"	9.122	28.8	38.5	63-140	27.4	29	QM-05
Ethylbenzene	19.04	0.197	"	9.315	12.5	70.2	56-150	25.7	29	
Xylenes, total	63.17	0.394	"	18.66	53.7	50.8	57-142	30.9	28	QM-05
Naphthalene	7.898	0.197	"	5.016	3.30	91.7	50-150	26.4	30	
Ethyl-tert-Butyl Ether (ETBE)	6.969	1.97	"	8.020	ND	86.9	60-140	4.04	30	
Di-iso-Propyl Ether (DIPE)	8.012	1.97	"	8.406	ND	95.3	60-140	6.30	30	
tert-Amyl Methyl Ether (TAME)	6.524	1.97	"	7.965	ND	81.9	60-140	6.58	30	
tert-Butyl Alcohol (TBA)	99.58	49.2	"	142.1	ND	70.1	60-140	11.7	30	
Surrogate: Dibromofluoromethane	*0.0985*		"	*0.0984*		*100*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.0964*		"	*0.0984*		*98.0*	*68-132*			
Surrogate: Toluene-d8	*0.101*		"	*0.0984*		*103*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.0946*		"	*0.0984*		*96.1*	*72-127*			

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City-31st Project Manager: Mark Schulze	Reported: 11/07/06 15:43

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J61726 - EPA 5030B										
Blank (1J61726-BLK1)				Prepared & Analyzed: 10/16/06						
1,2-Dibromoethane	ND	0.100	mg/kg wet							
Methyl-t-butyl Ether (MTBE)	ND	0.500	"							
Benzene	ND	0.100	"							
1,2-Dichloroethane	ND	0.100	"							
Toluene	ND	0.100	"							
Ethylbenzene	ND	0.100	"							
Xylenes, total	ND	0.200	"							
Naphthalene	ND	0.100	"							
Ethyl-tert-Butyl Ether (ETBE)	ND	1.00	"							
Di-iso-Propyl Ether (DIPE)	ND	1.00	"							
tert-Amyl Methyl Ether (TAME)	ND	1.00	"							
tert-Butyl Alcohol (TBA)	ND	25.0	"							
Surrogate: Dibromofluoromethane	*0.103*		"	*0.1000*		*103*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.103*		"	*0.1000*		*103*	*68-132*			
Surrogate: Toluene-d8	*0.100*		"	*0.1000*		*100*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.0970*		"	*0.1000*		*97.0*	*72-127*			
LCS (1J61726-BS1)				Prepared & Analyzed: 10/16/06						
1,2-Dibromoethane	1.468	0.100	mg/kg wet	9.828		14.9	60-140	30	QL-03	
Methyl-t-butyl Ether (MTBE)	1.441	0.500	"	9.436		15.3	52-145	18	QL-03	
Benzene	1.625	0.100	"	9.884		16.4	61-140	23	QL-03	
1,2-Dichloroethane	1.330	0.100	"	8.456		15.7	71-135	20	QL-03	
Toluene	1.384	0.100	"	9.268		14.9	76-140	17	QL-03	
Ethylbenzene	1.466	0.100	"	9.464		15.5	72-140	24	QL-03	
Xylenes, total	2.911	0.200	"	18.96		15.4	76-132	23	QL-03	
Naphthalene	1.029	0.100	"	5.096		20.2	50-148	22	QL-03	
Ethyl-tert-Butyl Ether (ETBE)	1.197	1.00	"	8.148		14.7	60-140	30	QL-03	
Di-iso-Propyl Ether (DIPE)	1.155	1.00	"	8.540		13.5	60-140	30	QL-03	
tert-Amyl Methyl Ether (TAME)	1.145	1.00	"	8.092		14.1	60-140	30	QL-03	
tert-Butyl Alcohol (TBA)	24.05	25.0	"	144.3		16.7	60-140	30	QL-03	
Surrogate: Dibromofluoromethane	*0.102*		"	*0.1000*		*102*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.102*		"	*0.1000*		*102*	*68-132*			
Surrogate: Toluene-d8	*0.0982*		"	*0.1000*		*98.2*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.0991*		"	*0.1000*		*99.1*	*72-127*			

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City-31st Project Manager: Mark Schulze	**Reported:** 11/07/06 15:43

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J61726 - EPA 5030B										
Matrix Spike (1J61726-MS1)	Source: 16J0341-02			Prepared & Analyzed: 10/16/06						
1,2-Dibromoethane	9.602	0.103	mg/kg wet	10.13	ND	94.8	62-133		23	
Methyl-t-butyl Ether (MTBE)	8.798	0.515	"	9.728	ND	90.4	50-150		23	
Benzene	9.899	0.103	"	10.19	ND	97.1	60-140		27	
1,2-Dichloroethane	8.457	0.103	"	8.718	ND	97.0	65-138		23	
Toluene	8.937	0.103	"	9.555	ND	93.5	63-140		29	
Ethylbenzene	9.043	0.103	"	9.757	ND	92.7	56-150		29	
Xylenes, total	17.91	0.206	"	19.54	ND	91.7	57-142		28	
Naphthalene	5.199	0.103	"	5.254	ND	99.0	50-150		30	
Ethyl-tert-Butyl Ether (ETBE)	7.986	1.03	"	8.400	ND	95.1	60-140		30	
Di-iso-Propyl Ether (DIPE)	7.713	1.03	"	8.804	ND	87.6	60-140		30	
tert-Amyl Methyl Ether (TAME)	7.952	1.03	"	8.342	ND	95.3	60-140		30	
tert-Butyl Alcohol (TBA)	167.2	25.8	"	148.8	ND	112	60-140		30	
Surrogate: Dibromofluoromethane	*0.105*		"	*0.1031*		*102*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.102*		"	*0.1031*		*98.9*	*68-132*			
Surrogate: Toluene-d8	*0.100*		"	*0.1031*		*97.0*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.102*		"	*0.1031*		*98.9*	*72-127*			
Matrix Spike Dup (1J61726-MSD1)	Source: 16J0341-02			Prepared & Analyzed: 10/16/06						
1,2-Dibromoethane	9.494	0.101	mg/kg wet	9.887	ND	96.0	62-133	1.13	23	
Methyl-t-butyl Ether (MTBE)	8.681	0.503	"	9.493	ND	91.4	50-150	1.34	23	
Benzene	10.01	0.101	"	9.944	ND	101	60-140	1.12	27	
1,2-Dichloroethane	8.354	0.101	"	8.507	ND	98.2	65-138	1.23	23	
Toluene	9.185	0.101	"	9.324	ND	98.5	63-140	2.74	29	
Ethylbenzene	9.209	0.101	"	9.521	ND	96.7	56-150	1.82	29	
Xylenes, total	18.13	0.201	"	19.07	ND	95.1	57-142	1.22	28	
Naphthalene	5.623	0.101	"	5.127	ND	110	50-150	7.84	30	
Ethyl-tert-Butyl Ether (ETBE)	7.925	1.01	"	8.197	ND	96.7	60-140	0.767	30	
Di-iso-Propyl Ether (DIPE)	7.801	1.01	"	8.592	ND	90.8	60-140	1.13	30	
tert-Amyl Methyl Ether (TAME)	7.825	1.01	"	8.141	ND	96.1	60-140	1.61	30	
tert-Butyl Alcohol (TBA)	126.9	25.2	"	145.2	ND	87.4	60-140	27.4	30	
Surrogate: Dibromofluoromethane	*0.101*		"	*0.1006*		*100*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.0990*		"	*0.1006*		*98.4*	*68-132*			
Surrogate: Toluene-d8	*0.101*		"	*0.1006*		*100*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.0990*		"	*0.1006*		*98.4*	*72-127*			

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City-31st Project Manager: Mark Schulze	**Reported:** 11/07/06 15:43

Determination of Total Petroleum Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16J1702 - 1J61705										
Calibration Check (16J1702-CCV2)				Prepared & Analyzed: 10/13/06						
TPH-GRO (C6-C10)	565.5		mg/kg wet	500.0		113	80-120			
Batch 16J1714 - 1J61726										
Calibration Check (16J1714-CCV2)				Prepared & Analyzed: 10/16/06						
TPH-GRO (C6-C10)	469.0		mg/kg wet	500.0		93.8	80-120			
Batch 1J61705 - EPA 5030B										
Blank (1J61705-BLK1)				Prepared & Analyzed: 10/13/06						
TPH-GRO (C6-C10)	ND	10.0	mg/kg wet							
Batch 1J61726 - EPA 5030B										
Blank (1J61726-BLK1)				Prepared & Analyzed: 10/16/06						
TPH-GRO (C6-C10)	ND	10.0	mg/kg wet							

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City-31st Project Manager: Mark Schulze	**Reported:** 11/07/06 15:43

Determination of Extractable Petroleum Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16J3101 - 1J62423										
Calibration Check (16J3101-CCV1)				Prepared: 10/29/06 Analyzed: 10/30/06						
TPH-DRO (C10-C21)	1148		mg/kg wet	1210		94.9	80-120			
Surrogate: Nitrobenzene-d5	*47.6*		"	*41.15*		*116*	*80-120*			
Surrogate: 2-Fluorobiphenyl	*38.8*		"	*41.20*		*94.2*	*80-120*			
Surrogate: Terphenyl-dl4	*43.0*		"	*41.11*		*105*	*80-120*			
Batch 1J62423 - 3545 BNA PFE										
Blank (1J62423-BLK1)				Prepared: 10/24/06 Analyzed: 10/30/06						
TPH-DRO (C10-C21)	ND	15.0	mg/kg wet							
TPH-ORO (C21-C35)	ND	15.0	"							
Surrogate: Nitrobenzene-d5	*2.33*		"	*3.04*		*76.6*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2.05*		"	*3.00*		*68.3*	*60-136*			
Surrogate: Terphenyl-dl4	*5.99*		"	*3.07*		*195*	*60-140*			
LCS (1J62423-BS1)				Prepared: 10/24/06 Analyzed: 10/30/06						
TPH-DRO (C10-C21)	33.67	15.0	mg/kg wet	38.33		87.8	70-130		30	
Surrogate: Nitrobenzene-d5	*2.20*		"	*3.04*		*72.4*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2.11*		"	*3.00*		*70.3*	*60-136*			
Surrogate: Terphenyl-dl4	*4.35*		"	*3.07*		*142*	*60-140*			*S-BN*
Reference (1J62423-SRM1)				Prepared: 10/24/06 Analyzed: 10/30/06						
TPH-DRO (C10-C21)	64.80	15.0	mg/kg wet	38.33		169	70-130			QR-06
Surrogate: Nitrobenzene-d5	*3.82*		"	*3.04*		*126*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*3.36*		"	*3.00*		*112*	*60-136*			
Surrogate: Terphenyl-dl4	*4.46*		"	*3.07*		*145*	*60-140*			*S-BN*

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City-31st	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	11/07/06 15:43

Determination of Polynuclear Aromatic Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16J3101 - 1J62423										
Calibration Check (16J3101-CCV1)				Prepared: 10/29/06 Analyzed: 10/30/06						
Naphthalene	38.27		ug/kg wet	45.00		85.0	80-120			
Acenaphthene	39.21		"	45.00		87.1	80-120			
Fluorene	42.98		"	45.00		95.5	80-120			
Anthracene	44.21		"	45.00		98.2	80-120			
Fluoranthene	41.86		"	45.00		93.0	80-120			
Pyrene	47.09		"	45.00		105	80-120			
Benzo(a)anthracene	35.52		"	45.00		78.9	80-120			QR-06
Chrysene	35.51		"	45.00		78.9	80-120			QR-06
Benzo(b)Fluoranthene	41.49		"	45.00		92.2	80-120			
Benzo(k)Fluoranthene	38.28		"	45.00		85.1	80-120			
Benzo(a)Pyrene	37.95		"	45.00		84.3	80-120			
Dibenzo(a,h)anthracene	35.72		"	45.00		79.4	80-120			QR-06
Surrogate: Nitrobenzene-d5	*47.6*		"	*41.15*		*116*	*80-120*			
Surrogate: 2-Fluorobiphenyl	*38.8*		"	*41.20*		*94.2*	*80-120*			
Surrogate: Terphenyl-dl4	*43.0*		"	*41.11*		*105*	*80-120*			
Batch 1J62423 - 3545 BNA PFE										
Blank (1J62423-BLK1)				Prepared: 10/24/06 Analyzed: 10/30/06						
Naphthalene	ND	330	ug/kg wet							
Acenaphthene	ND	330	"							
Fluorene	ND	330	"							
Anthracene	ND	330	"							
Fluoranthene	ND	330	"							
Pyrene	ND	330	"							
Benzo(a)anthracene	ND	330	"							
Chrysene	ND	330	"							
Benzo(b)Fluoranthene	ND	330	"							
Benzo(k)Fluoranthene	ND	330	"							
Benzo(a)Pyrene	ND	330	"							
Dibenzo(a,h)anthracene	ND	330	"							
Surrogate: Nitrobenzene-d5	*2330*		"	*3043*		*76.6*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2050*		"	*3002*		*68.3*	*60-136*			
Surrogate: Terphenyl-dl4	*5990*		"	*3070*		*195*	*60-140*			*S-09*

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City-31st	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	11/07/06 15:43

Determination of Polynuclear Aromatic Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J62423 - 3545 BNA PFE										
LCS (1J62423-BS1)				Prepared: 10/24/06 Analyzed: 10/30/06						
Naphthalene	596.3	330	ug/kg wet	920.0		64.8	60-120		40	
Acenaphthene	545.3	330	"	920.0		59.3	60-133		20	QS-03
Fluorene	546.0	330	"	920.0		59.3	60-132		20	QS-03
Anthracene	691.3	330	"	920.0		75.1	60-129		40	
Fluoranthene	719.7	330	"	920.0		78.2	60-130		40	
Pyrene	814.0	330	"	920.0		88.5	60-121		40	
Chrysene	785.7	330	"	920.0		85.4	60-119		20	
Benzo(b)Fluoranthene	832.0	330	"	920.0		90.4	60-140		40	
Benzo(k)Fluoranthene	767.3	330	"	920.0		83.4	60-140		40	
Benzo(a)Pyrene	648.3	330	"	920.0		70.5	60-135		20	
Surrogate: Nitrobenzene-d5	*2200*		"	*3043*		*72.3*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2110*		"	*3002*		*70.3*	*60-136*			
Surrogate: Terphenyl-dl4	*4350*		"	*3070*		*142*	*60-140*			*S-BN*
Reference (1J62423-SRM1)				Prepared: 10/24/06 Analyzed: 10/30/06						
Naphthalene	998.0	330	ug/kg wet	920.0		108	70-130			
Acenaphthene	810.7	330	"	920.0		88.1	70-130			
Fluorene	715.7	330	"	920.0		77.8	70-130			
Anthracene	777.0	330	"	920.0		84.5	70-130			
Fluoranthene	759.3	330	"	920.0		82.5	70-130			
Pyrene	739.7	330	"	920.0		80.4	70-130			
Benzo(a)anthracene	926.3	330	"	920.0		101	70-130			
Chrysene	871.7	330	"	920.0		94.8	70-130			
Benzo(b)Fluoranthene	884.7	330	"	920.0		96.2	70-130			
Benzo(k)Fluoranthene	743.3	330	"	920.0		80.8	70-130			
Benzo(a)Pyrene	631.7	330	"	920.0		68.7	70-130			QR-06
Dibenzo(a,h)anthracene	479.3	330	"	920.0		52.1	70-130			QR-06
Surrogate: Nitrobenzene-d5	*3820*		"	*3043*		*126*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*3360*		"	*3002*		*112*	*60-136*			
Surrogate: Terphenyl-dl4	*4460*		"	*3070*		*145*	*60-140*			*S-BN*

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City-31st	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	11/07/06 15:43

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J61326 - Wet Chem Preparation										
Duplicate (1J61326-DUP1)		**Source: 16J0573-04**		Prepared & Analyzed: 10/13/06						
% Solids	80.7	0.1	%		80.8			0.124	20	
Duplicate (1J61326-DUP2)		**Source: 16J0651-01**		Prepared & Analyzed: 10/13/06						
% Solids	1.20	0.1	%		1.2			0.00	20	

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City-31st Project Manager: Mark Schulze	**Reported:** 11/07/06 15:43

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16J1704 - 1J61720										
Calibration Blank (16J1704-CCB1)				Prepared & Analyzed: 10/17/06						
Lead, total	-0.002		mg/l	0.000						
Calibration Blank (16J1704-CCB2)				Prepared & Analyzed: 10/17/06						
Lead, total	-0.0009		mg/l	0.000						
Calibration Blank (16J1704-CCB3)				Prepared & Analyzed: 10/17/06						
Lead, total	0.003		mg/l	0.000						
Calibration Check (16J1704-CCV1)				Prepared & Analyzed: 10/17/06						
Lead, total	1.04		mg/l	1.000		104	90-110			
Calibration Check (16J1704-CCV2)				Prepared & Analyzed: 10/17/06						
Lead, total	1.03		mg/l	1.000		103	90-110			
Calibration Check (16J1704-CCV3)				Prepared & Analyzed: 10/17/06						
Lead, total	1.04		mg/l	1.000		104	90-110			
High Cal Check (16J1704-HCV2)				Prepared & Analyzed: 10/17/06						
Lead, total	19.7		mg/l	20.00		98.5	90-110			
Initial Cal Blank (16J1704-ICB1)				Prepared & Analyzed: 10/17/06						
Lead, total	0.002		mg/l	0.000						
Initial Cal Check (16J1704-ICV1)				Prepared & Analyzed: 10/17/06						
Lead, total	1.02		mg/l	1.000		102	90-110			
Secondary Cal Check (16J1704-SCV1)				Prepared & Analyzed: 10/17/06						
Lead, total	0.516		mg/l	0.500		103	90-110			

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City-31st	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	11/07/06 15:43

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J61602 - EPA 3050B Solid Dig										
Blank (1J61602-BLK1)				Prepared: 10/16/06 Analyzed: 10/17/06						
Lead, total	ND	0.05	mg/kg wet							
LCS (1J61602-BS1)				Prepared: 10/16/06 Analyzed: 10/17/06						
Lead, total	2.08	0.05	mg/kg wet	2.00		104	87-115		20	
Matrix Spike (1J61602-MS1)	Source: 16J0573-01			Prepared: 10/16/06 Analyzed: 10/17/06						
Lead, total	182	3.8	mg/kg dry	188.3	14.8	88.8	68-111		22	
Matrix Spike Dup (1J61602-MSD1)	Source: 16J0573-01			Prepared: 10/16/06 Analyzed: 10/17/06						
Lead, total	176	3.8	mg/kg dry	185.5	14.8	86.9	68-111	3.35	22	
Post Spike (1J61602-PS1)	Source: 16J0573-01			Prepared: 10/16/06 Analyzed: 10/17/06						
Lead, total	173	3.8	mg/kg dry	185.5	14.8	85.3	60-133		20	

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City-31st	**Reported:**
Kansas City MO, 64155	Project Manager: Mark Schulze	11/07/06 15:43

Notes and Definitions

S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
S-09	The recovery for this surrogate standard cannot be accurately determined due to a matrix affect which caused the loss of the corresponding internal standard used for quantitation.
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QS-03	The blank spike recovery was below established acceptance limits
QR-06	The reference standard was outside of established control limits.
QM-05	The spike recovery and/or RPD was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QL-03	The LCS was outside established acceptance limits. The batch was accepted based on acceptable ICV, CCV and MS/MSD results.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.

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PAGE 1 OF 1

PRINT OR TYPE INFORMATION BELOW

SAMPLER: MARK H SCHULZE
SITE NAME: INNER CITY. 31ST
ADDRESS: 3814 E 31ST
CITY/ST/ZIP: KANSAS CITY, MO
PHONE:

REPORT TO:
NAME: MARK H SCHULZE
COMPANY NAME: MHS ENVIRONMENTAL, INC
ADDRESS: 13-A NW BARRY RD, PMB 192
CITY/ST/ZIP: KANSAS CITY, MO 64155
PHONE: 816 734 3021
FAX:

BILL TO:
NAME: MARK H SCHULZE
COMPANY NAME: SAME
ADDRESS:
CITY/ST/ZIP:
PHONE:

Keystone Quote No.: (If Applicable)

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED: BTEX	NAPTHALENE	Oxygenates	EDB/EDC	GRO	DRO	Lead	PAHs	LAB USE ONLY: LABORATORY SAMPLE NUMBER
	10/12/06	0910hr	PI-1	5	So.1	G	X	X	X	X	X	X	X		01
	10/12/06	0945hr	PI-2	5	So.1	G	X	X	X	X	X	X	X		02

LABORATORY WORK ORDER NO.: 16J0709

SAMPLE TEMPERATURE UPON RECEIPT: On ice °C

SAMPLE CONDITION/COMMENTS:

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Mark H Schulze	10/12/06	1035 hr			
Relinquished by: (Signature)	Date	Time	Received for Lab by: (Signature)	Date	Time
			Chris Lynch	10/12/06	10:35

Turn-Around: ☒ Standard ☐ Rush _____ Contact Lab Prior to Submission

Remarks: PAH only on sample with highest DRO Detected MHS 10-17-06 8:32

Original - Return with Report • Yellow - Lab Copy • Pink - Sampler Copy

FORM: CCR 7-97

Keystone
LABORATORIES, INC.

ACCREDITED IN ACCORDANCE WITH nelac

MEMBER ACIL

31 October 2006

Mark Schulze
MHS Environmental, Inc.
13-A NW Barry Rd. PMB-192
Kansas City, MO 64155

RE: Missouri RBCA UST
Inner City 31st.

Enclosed are the results of analyses for samples received by the laboratory on 10/17/06 10:02. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

Sincerely,

Jeffrey King, Ph.D.
Laboratory Director

Phone 641-792-8451
600 East 17th Street South
Newton, IA 50208
Fax 641-792-7989

Keystone
LABORATORIES, INC.

ACCREDITED IN ACCORDANCE WITH nelac

MEMBER ACIL

MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st. Project Manager: Mark Schulze	**Reported:** 10/31/06 17:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P-1	16J0709-01	Soil	10/12/06 09:10	10/17/06 10:02
P-2	16J0709-02	Soil	10/12/06 09:45	10/17/06 10:02

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st. Project Manager: Mark Schulze	Reported: 10/31/06 17:01

P-1

16J0709-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	1.64	mg/kg dry	1000	1J62425	10/23/06	10/24/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	ND	8.18	"	"	"	"	"	"	
Benzene	**28.4**	1.64	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.64	"	"	"	"	"	"	
Toluene	**333**	1.64	"	"	"	"	"	"	
Ethylbenzene	**100**	1.64	"	"	"	"	"	"	
Xylenes, total	**577**	3.27	"	"	"	"	"	"	
Naphthalene	**29.2**	1.64	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	16.4	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	16.4	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	16.4	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	409	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*88.6 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	**6450**	164	mg/kg dry	1000	1J62425	"	10/24/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	**183**	75.0	mg/kg dry	5	1J62423	10/24/06	10/30/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	75.0	"	"	"	"	"	"	S-06
Surrogate: Nitrobenzene-d5		*56.7 %*	*60-140*		"	"	"	"	S-06
Surrogate: 2-Fluorobiphenyl		*49.0 %*	*60-136*		"	"	"	"	
Surrogate: Terphenyl-d14		*86.4 %*	*60-140*		"	"	"	"	

Keystone Laboratories, Inc. - Newton

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Jeffrey King

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st. Project Manager: Mark Schulze	**Reported:** 10/31/06 17:01

PJ-1
16J0709-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Polynuclear Aromatic Hydrocarbons									
Naphthalene	**3960**	1650	ug/kg dry	5	1J62423	10/24/06	10/30/06	EPA 8270C	
Acenaphthene	ND	1650	"	"	"	"	"	"	
Fluorene	ND	1650	"	"	"	"	"	"	
Anthracene	ND	1650	"	"	"	"	"	"	
Fluoranthene	ND	1650	"	"	"	"	"	"	
Pyrene	ND	1650	"	"	"	"	"	"	
Benzo(a)anthracene	ND	1650	"	"	"	"	"	"	
Chrysene	ND	1650	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	1650	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	1650	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	1650	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	1650	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*56.8 %*	*60-140*		"	"	"	"	*S-06*
Surrogate: 2-Fluorobiphenyl		*49.1 %*	*60-136*		"	"	"	"	*S-06*
Surrogate: Terphenyl-dl4		*86.4 %*	*60-140*		"	"	"	"	
Determination of Conventional Chemistry Parameters									
% Solids	**81.5**	0.1	%	1	1J61934	10/19/06	10/19/06	% calculation	
Determination of Total Metals									
Lead, total	**17.8**	3.5	mg/kg dry	1	1J61904	10/19/06	10/19/06	EPA 6010B	

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st.	**Reported:**
Kansas City MO, 64155	Project Manager: Mark Schulze	10/31/06 17:01

P-2

16J0709-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.086	mg/kg dry	50	1J62425	10/23/06	10/24/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	ND	0.429	"	"	"	"	"	"	
Benzene	**0.516**	0.086	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.086	"	"	"	"	"	"	
Toluene	ND	0.086	"	"	"	"	"	"	
Ethylbenzene	**0.713**	0.086	"	"	"	"	"	"	
Xylenes, total	**2.36**	0.172	"	"	"	"	"	"	
Naphthalene	ND	0.086	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	0.858	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	0.858	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	0.858	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	21.4	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98.8 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*89.4 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	18.9	8.6	mg/kg dry	50	1J62425	"	10/24/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	ND	15.0	mg/kg dry	1	1J62423	10/24/06	10/30/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	15.0	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*51.9 %*	*60-140*		"	"	"	"	*S-07*
Surrogate: 2-Fluorobiphenyl		*36.8 %*	*60-136*		"	"	"	"	*S-07*
Surrogate: Terphenyl-d14		*95.5 %*	*60-140*		"	"	"	"	

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st.	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	10/31/06 17:01

P-2

16J0709-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	81.5	0.1	%	1	1J61934	10/19/06	10/19/06	% calculation	
Determination of Total Metals									
Lead, total	16.8	3.4	mg/kg dry	1	1J61904	10/19/06	10/19/06	EPA 6010B	

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st.	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	10/31/06 17:01

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J62425 - EPA 5035										
Blank (1J62425-BLK1)				Prepared: 10/23/06 Analyzed: 10/24/06						
1,2-Dibromoethane	ND	0.100	mg/kg wet							
Methyl-t-butyl Ether (MTBE)	ND	0.500	"							
Benzene	ND	0.100	"							
1,2-Dichloroethane	ND	0.100	"							
Toluene	ND	0.100	"							
Ethylbenzene	ND	0.100	"							
Xylenes, total	ND	0.200	"							
Naphthalene	ND	0.100	"							
Ethyl-tert-Butyl Ether (ETBE)	ND	1.00	"							
Di-iso-Propyl Ether (DIPE)	ND	1.00	"							
tert-Amyl Methyl Ether (TAME)	ND	1.00	"							
tert-Butyl Alcohol (TBA)	ND	25.0	"							
Surrogate: Dibromofluoromethane	*49.9*		"	*50.00*		*99.8*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*44.8*		"	*50.00*		*89.6*	*68-132*			
Surrogate: Toluene-d8	*49.8*		"	*50.00*		*99.6*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*57.2*		"	*50.00*		*114*	*72-127*			
LCS (1J62425-BS1)				Prepared & Analyzed: 10/23/06						
1,2-Dibromoethane	6.680	0.100	mg/kg wet	7.860		85.0	60-140		30	
Methyl-t-butyl Ether (MTBE)	5.690	0.500	"	6.000		94.8	52-145		18	
Benzene	4.697	0.100	"	5.040		93.2	61-140		23	
1,2-Dichloroethane	6.521	0.100	"	7.140		91.3	71-135		20	
Toluene	5.930	0.100	"	5.920		100	76-140		17	
Ethylbenzene	6.707	0.100	"	7.560		88.7	72-140		24	
Xylenes, total	12.31	0.200	"	11.40		108	76-132		23	
Naphthalene	4.013	0.100	"	5.420		74.0	50-148		22	
Ethyl-tert-Butyl Ether (ETBE)	6.424	1.00	"	7.000		91.8	60-140		30	
Di-iso-Propyl Ether (DIPE)	5.259	1.00	"	5.420		97.0	60-140		30	
tert-Amyl Methyl Ether (TAME)	4.067	1.00	"	4.920		82.7	60-140		30	
tert-Butyl Alcohol (TBA)	76.08	25.0	"	110.2		69.0	60-140		30	
Surrogate: Dibromofluoromethane	*49.0*		"	*50.00*		*98.0*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*45.4*		"	*50.00*		*90.8*	*68-132*			
Surrogate: Toluene-d8	*48.6*		"	*50.00*		*97.2*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*50.4*		"	*50.00*		*101*	*72-127*			

Keystone Laboratories, Inc. - Newton

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Jeffrey King, Ph.D., Laboratory Director

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31st. Project Manager: Mark Schulze	**Reported:** 10/31/06 17:01

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J62425 - EPA 5035										
Matrix Spike (1J62425-MS1)	Source: 16J0454-02			Prepared & Analyzed: 10/23/06						
1,2-Dibromoethane	7.806	0.100	mg/kg dry	9.737	ND	80.2	62-133		23	
Methyl-t-butyl Ether (MTBE)	6.633	0.498	"	7.433	ND	89.2	50-150		23	
Benzene	5.673	0.100	"	6.244	ND	90.9	60-140		27	
1,2-Dichloroethane	7.699	0.100	"	8.845	ND	87.0	65-138		23	
Toluene	7.017	0.100	"	7.334	ND	95.7	63-140		29	
Ethylbenzene	7.962	0.100	"	9.366	ND	85.0	56-150		29	
Xylenes, total	14.73	0.199	"	14.12	ND	104	57-142		28	
Naphthalene	4.844	0.100	"	6.714	ND	72.1	50-150		30	
Ethyl-tert-Butyl Ether (ETBE)	7.624	0.996	"	8.672	ND	87.9	60-140		30	
Di-iso-Propyl Ether (DIPE)	6.280	0.996	"	6.714	ND	93.5	60-140		30	
tert-Amyl Methyl Ether (TAME)	4.909	0.996	"	6.095	ND	80.5	60-140		30	
tert-Butyl Alcohol (TBA)	90.69	24.9	"	136.6	ND	66.4	60-140		30	
Surrogate: Dibromofluoromethane	*48.5*		"	*50.00*		*97.0*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*45.6*		"	*50.00*		*91.2*	*68-132*			
Surrogate: Toluene-d8	*48.2*		"	*50.00*		*96.4*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*50.0*		"	*50.00*		*100*	*72-127*			
Matrix Spike Dup (1J62425-MSD1)	Source: 16J0454-02			Prepared & Analyzed: 10/23/06						
1,2-Dibromoethane	7.972	0.100	mg/kg dry	9.737	ND	81.9	62-133	2.10	23	
Methyl-t-butyl Ether (MTBE)	6.744	0.498	"	7.433	ND	90.7	50-150	1.66	23	
Benzene	5.504	0.100	"	6.244	ND	88.1	60-140	3.02	27	
1,2-Dichloroethane	7.476	0.100	"	8.845	ND	84.5	65-138	2.94	23	
Toluene	7.015	0.100	"	7.334	ND	95.7	63-140	0.0285	29	
Ethylbenzene	8.202	0.100	"	9.366	ND	87.6	56-150	2.97	29	
Xylenes, total	14.77	0.199	"	14.12	ND	105	57-142	0.271	28	
Naphthalene	5.393	0.100	"	6.714	ND	80.3	50-150	10.7	30	
Ethyl-tert-Butyl Ether (ETBE)	7.624	0.996	"	8.672	ND	87.9	60-140	0.00	30	
Di-iso-Propyl Ether (DIPE)	6.179	0.996	"	6.714	ND	92.0	60-140	1.62	30	
tert-Amyl Methyl Ether (TAME)	4.891	0.996	"	6.095	ND	80.2	60-140	0.367	30	
tert-Butyl Alcohol (TBA)	85.80	24.9	"	136.6	ND	62.8	60-140	5.54	30	
Surrogate: Dibromofluoromethane	*50.5*		"	*50.00*		*101*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*45.6*		"	*50.00*		*91.2*	*68-132*			
Surrogate: Toluene-d8	*49.6*		"	*50.00*		*99.2*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*52.2*		"	*50.00*		*104*	*72-127*			

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st.	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	10/31/06 17:01

Determination of Total Petroleum Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16J2407 - 1J62425										
Calibration Check (16J2407-CCV2)				Prepared & Analyzed: 10/23/06						
TPH-GRO (C6-C10)	458.1		mg/kg wet	500.0		91.6	80-120			
Batch 1J62425 - EPA 5035										
Blank (1J62425-BLK1)				Prepared: 10/23/06 Analyzed: 10/24/06						
TPH-GRO (C6-C10)	ND	10.0	mg/kg wet							

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st.	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	10/31/06 17:01

Determination of Extractable Petroleum Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16J3101 - 1J62423										
Calibration Check (16J3101-CCV1)				Prepared: 10/29/06 Analyzed: 10/30/06						
TPH-DRO (C10-C21)	1148		mg/kg wet	1210		94.9	80-120			
Surrogate: Nitrobenzene-d5	*47.6*		"	*41.15*		*116*	*80-120*			
Surrogate: 2-Fluorobiphenyl	*38.8*		"	*41.20*		*94.2*	*80-120*			
Surrogate: Terphenyl-dl4	*43.0*		"	*41.11*		*105*	*80-120*			
Batch 1J62423 - 3545 BNA PFE										
Blank (1J62423-BLK1)				Prepared: 10/24/06 Analyzed: 10/30/06						
TPH-DRO (C10-C21)	ND	15.0	mg/kg wet							
TPH-ORO (C21-C35)	ND	15.0	"							
Surrogate: Nitrobenzene-d5	*2.33*		"	*3.04*		*76.6*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2.05*		"	*3.00*		*68.3*	*60-136*			
Surrogate: Terphenyl-dl4	*5.99*		"	*3.07*		*195*	*60-140*			
LCS (1J62423-BS1)				Prepared: 10/24/06 Analyzed: 10/30/06						
TPH-DRO (C10-C21)	33.67	15.0	mg/kg wet	38.33		87.8	70-130		30	
Surrogate: Nitrobenzene-d5	*2.20*		"	*3.04*		*72.4*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2.11*		"	*3.00*		*70.3*	*60-136*			
Surrogate: Terphenyl-dl4	*4.35*		"	*3.07*		*142*	*60-140*			*S-BN*
Reference (1J62423-SRM1)				Prepared: 10/24/06 Analyzed: 10/30/06						
TPH-DRO (C10-C21)	64.80	15.0	mg/kg wet	38.33		169	70-130			QR-06
Surrogate: Nitrobenzene-d5	*3.82*		"	*3.04*		*126*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*3.36*		"	*3.00*		*112*	*60-136*			
Surrogate: Terphenyl-dl4	*4.46*		"	*3.07*		*145*	*60-140*			*S-BN*

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st.	**Reported:**
Kansas City MO, 64155	Project Manager: Mark Schulze	10/31/06 17:01

Determination of Polynuclear Aromatic Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16J3101 - 1J62423										
Calibration Check (16J3101-CCV1)				Prepared: 10/29/06 Analyzed: 10/30/06						
Naphthalene	38.27		ug/kg wet	45.00		85.0	80-120			
Acenaphthene	39.21		"	45.00		87.1	80-120			
Fluorene	42.98		"	45.00		95.5	80-120			
Anthracene	44.21		"	45.00		98.2	80-120			
Fluoranthene	41.86		"	45.00		93.0	80-120			
Pyrene	47.09		"	45.00		105	80-120			
Benzo(a)anthracene	35.52		"	45.00		78.9	80-120			QR-06
Chrysene	35.51		"	45.00		78.9	80-120			QR-06
Benzo(b)Fluoranthene	41.49		"	45.00		92.2	80-120			
Benzo(k)Fluoranthene	38.28		"	45.00		85.1	80-120			
Benzo(a)Pyrene	37.95		"	45.00		84.3	80-120			
Dibenzo(a,h)anthracene	35.72		"	45.00		79.4	80-120			QR-06
Surrogate: Nitrobenzene-d5	*47.6*		"	*41.15*		*116*	*80-120*			
Surrogate: 2-Fluorobiphenyl	*38.8*		"	*41.20*		*94.2*	*80-120*			
Surrogate: Terphenyl-dl4	*43.0*		"	*41.11*		*105*	*80-120*			
Batch 1J62423 - 3545 BNA PFE										
Blank (1J62423-BLK1)				Prepared: 10/24/06 Analyzed: 10/30/06						
Naphthalene	ND	330	ug/kg wet							
Acenaphthene	ND	330	"							
Fluorene	ND	330	"							
Anthracene	ND	330	"							
Fluoranthene	ND	330	"							
Pyrene	ND	330	"							
Benzo(a)anthracene	ND	330	"							
Chrysene	ND	330	"							
Benzo(b)Fluoranthene	ND	330	"							
Benzo(k)Fluoranthene	ND	330	"							
Benzo(a)Pyrene	ND	330	"							
Dibenzo(a,h)anthracene	ND	330	"							
Surrogate: Nitrobenzene-d5	*2330*		"	*3043*		*76.6*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2050*		"	*3002*		*68.3*	*60-136*			
Surrogate: Terphenyl-dl4	*5990*		"	*3070*		*195*	*60-140*			*S-09*

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st.	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	10/31/06 17:01

Determination of Polynuclear Aromatic Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J62423 - 3545 BNA PFE										
LCS (1J62423-BS1)				Prepared: 10/24/06 Analyzed: 10/30/06						
Naphthalene	596.3	330	ug/kg wet	920.0		64.8	60-120		40	
Acenaphthene	545.3	330	"	920.0		59.3	60-133		20	QS-03
Fluorene	546.0	330	"	920.0		59.3	60-132		20	QS-03
Anthracene	691.3	330	"	920.0		75.1	60-129		40	
Fluoranthene	719.7	330	"	920.0		78.2	60-130		40	
Pyrene	814.0	330	"	920.0		88.5	60-121		40	
Chrysene	785.7	330	"	920.0		85.4	60-119		20	
Benzo(b)Fluoranthene	832.0	330	"	920.0		90.4	60-140		40	
Benzo(k)Fluoranthene	767.3	330	"	920.0		83.4	60-140		40	
Benzo(a)Pyrene	648.3	330	"	920.0		70.5	60-135		20	
Surrogate: Nitrobenzene-d5	*2200*		"	*3043*		*72.3*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2110*		"	*3002*		*70.3*	*60-136*			
Surrogate: Terphenyl-dl4	*4350*		"	*3070*		*142*	*60-140*			*S-BN*
Reference (1J62423-SRM1)				Prepared: 10/24/06 Analyzed: 10/30/06						
Naphthalene	998.0	330	ug/kg wet	920.0		108	70-130			
Acenaphthene	810.7	330	"	920.0		88.1	70-130			
Fluorene	715.7	330	"	920.0		77.8	70-130			
Anthracene	777.0	330	"	920.0		84.5	70-130			
Fluoranthene	759.3	330	"	920.0		82.5	70-130			
Pyrene	739.7	330	"	920.0		80.4	70-130			
Benzo(a)anthracene	926.3	330	"	920.0		101	70-130			
Chrysene	871.7	330	"	920.0		94.8	70-130			
Benzo(b)Fluoranthene	884.7	330	"	920.0		96.2	70-130			
Benzo(k)Fluoranthene	743.3	330	"	920.0		80.8	70-130			
Benzo(a)Pyrene	631.7	330	"	920.0		68.7	70-130			QR-06
Dibenzo(a,h)anthracene	479.3	330	"	920.0		52.1	70-130			QR-06
Surrogate: Nitrobenzene-d5	*3820*		"	*3043*		*126*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*3360*		"	*3002*		*112*	*60-136*			
Surrogate: Terphenyl-dl4	*4460*		"	*3070*		*145*	*60-140*			*S-BN*

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13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st.	**Reported:**
Kansas City MO, 64155	Project Manager: Mark Schulze	10/31/06 17:01

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J61934 - Wet Chem Preparation										
Duplicate (1J61934-DUP1)		**Source: 16J0881-02**		Prepared & Analyzed: 10/19/06						
% Solids	84.0	0.1	%		84.6			0.712	20	

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13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st.	**Reported:**
Kansas City MO, 64155	Project Manager: Mark Schulze	10/31/06 17:01

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16J1907 - 1J61904										
Calibration Blank (16J1907-CCB1)				Prepared & Analyzed: 10/19/06						
Lead, total	-0.0001		mg/l	0.000						
Calibration Blank (16J1907-CCB2)				Prepared & Analyzed: 10/19/06						
Lead, total	0.0003		mg/l	0.000						
Calibration Blank (16J1907-CCB3)				Prepared & Analyzed: 10/19/06						
Lead, total	-0.002		mg/l	0.000						
Calibration Blank (16J1907-CCB4)				Prepared & Analyzed: 10/19/06						
Lead, total	0.004		mg/l	0.000						
Calibration Blank (16J1907-CCB5)				Prepared & Analyzed: 10/19/06						
Lead, total	0.002		mg/l	0.000						
Calibration Check (16J1907-CCV1)				Prepared & Analyzed: 10/19/06						
Lead, total	1.00		mg/l	1.000		100	90-110			
Calibration Check (16J1907-CCV2)				Prepared & Analyzed: 10/19/06						
Lead, total	0.990		mg/l	1.000		99.0	90-110			
Calibration Check (16J1907-CCV3)				Prepared & Analyzed: 10/19/06						
Lead, total	0.982		mg/l	1.000		98.2	90-110			
Calibration Check (16J1907-CCV4)				Prepared & Analyzed: 10/19/06						
Lead, total	0.980		mg/l	1.000		98.0	90-110			
Calibration Check (16J1907-CCV5)				Prepared & Analyzed: 10/19/06						
Lead, total	0.975		mg/l	1.000		97.5	90-110			

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13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st.	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	10/31/06 17:01

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16J1907 - 1J61904										
High Cal Check (16J1907-HCV2)				Prepared & Analyzed: 10/19/06						
Lead, total	18.6		mg/l	20.00		93.0	90-110			
Initial Cal Blank (16J1907-ICB1)				Prepared & Analyzed: 10/19/06						
Lead, total	-0.0006		mg/l	0.000						
Initial Cal Check (16J1907-ICV1)				Prepared & Analyzed: 10/19/06						
Lead, total	0.992		mg/l	1.000		99.2	90-110			
Secondary Cal Check (16J1907-SCV1)				Prepared & Analyzed: 10/19/06						
Lead, total	0.500		mg/l	0.500		100	90-110			
Batch 1J61904 - EPA 3050B Solid Dig										
Blank (1J61904-BLK1)				Prepared & Analyzed: 10/19/06						
Lead, total	ND	0.05	mg/kg wet							
LCS (1J61904-BS1)				Prepared & Analyzed: 10/19/06						
Lead, total	2.0	0.05	mg/kg wet	2.00		100	87-115		20	
Matrix Spike (1J61904-MS1)		Source: 16J0839-03		Prepared & Analyzed: 10/19/06						
Lead, total	151	3.6	mg/kg dry	167.4	5.0	87.2	68-111		22	
Matrix Spike Dup (1J61904-MSD1)		Source: 16J0839-03		Prepared & Analyzed: 10/19/06						
Lead, total	151	3.6	mg/kg dry	167.4	5.0	87.2	68-111	0.00	22	
Post Spike (1J61904-PS1)		Source: 16J0839-03		Prepared & Analyzed: 10/19/06						
Lead, total	1.7		mg/kg dry	2.00	0.0589	82.1	60-133		20	

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City 31st.	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	10/31/06 17:01

Notes and Definitions

S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
S-09	The recovery for this surrogate standard cannot be accurately determined due to a matrix affect which caused the loss of the corresponding internal standard used for quantitation.
S-07	The surrogate recovery for this sample is outside of established control limits.
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QS-03	The blank spike recovery was below established acceptance limits.
QR-06	The reference standard was outside of established control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

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CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.

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Newton, IA 50208
Phone: 641-792-8451
Fax: 641-792-7989

☐ 3012 Ansborough Ave.
Waterloo, IA 50701
Phone: 319-235-4440
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☒ 1304 Adams
Kansas City, KS 66103
Phone: 913-321-7856
Fax: 913-321-7937

PAGE 1 OF 1

PRINT OR TYPE INFORMATION BELOW
SAMPLER: Mark H Schulze
SITE NAME: Inner City - 31st
ADDRESS: 3814 E 31st St
CITY/ST/ZIP: Kansas City, MO
PHONE:

REPORT TO:
NAME: Mark H Schulze
COMPANY NAME: MHS Environmental, Inc
ADDRESS: 13-A NW Barry Rd, PMB 192
CITY/ST/ZIP: Kansas City MO 64155
PHONE: 816 734 5021
FAX:

BILL TO:
NAME: Mark H Schulze
COMPANY NAME:
ADDRESS:
CITY/ST/ZIP:
PHONE:
Keystone Quote No.: (If Applicable)

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED: BTEX	Naphthalene	Oxygenates	EDB/EDC	GRO	DRO	Total Lead	PAH's	LAB USE ONLY: SAMPLE CONDITION/COMMENTS	LABORATORY SAMPLE NUMBER
	10/27/06	0945hr	PI - 3 2-3ft	5	Soil	G	X	X	X	X	X	X	X			01
	10/27/06	0950hr	PI - 3 8-9ft	5	Soil	G	X	X	X	X	X	X	X			02
1040hr	10/27/06	1040hr	PI - 4 2-3ft	5	Soil	G	X	X	X	X	X	X	X			03
1055hr	10/27/06	1055hr	PI - 4 8-10ft	5	Soil	G	X	X	X	X	X	X	X			04
	10/27/06	1010hr	PI-5 2-3ft	5	Soil	G	X	X	X	X	X	X	X			05
	10/27/06	1015hr	PI-5 8-10ft	5	Soil	G	X	X	X	X	X	X	X			06

LABORATORY WORK ORDER NO.: 16J1312
SAMPLE TEMPERATURE UPON RECEIPT: ONICE °C

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Mark H Schulze	10/27/06	1215hr			
Relinquished by: (Signature)	Date	Time	Received for Lab by: (Signature)	Date	Time
				10/27/06	12:15

Turn-Around: ☒ Standard ☐ Rush _____ Contact Lab Prior to Submission

Remarks: AH only on samples w/ highest DRO Detections (2 total). 10:3-06 10:17

Original - Return with Report • Yellow - Lab Copy • Pink - Sampler Copy

FORM: CCR 7-97

Keystone
LABORATORIES, INC.

ACCREDITED IN ACCORDANCE WITH nelac

MEMBER ACIL

16 November 2006

Mark Schulze
MHS Environmental, Inc.
13-A NW Barry Rd. PMB-192
Kansas City, MO 64155

RE: Missouri RBCA UST
Inner City 31 St.

Enclosed are the results of analyses for samples received by the laboratory on 10/31/06 10:17. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

Sincerely,

Jeffrey King, Ph.D.
Laboratory Director

Phone 641-792-8451
600 East 17th Street South
Newton, IA 50208
Fax 641-792-7989

Keystone
LABORATORIES, INC.

ACCREDITED IN ACCORDANCE WITH nelac

MEMBER ACIL

MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PI-3 2-3'	16J1312-01	Soil	10/27/06 09:45	10/31/06 10:17
PI-3 8-9'	16J1312-02	Soil	10/27/06 09:50	10/31/06 10:17
PI-4 2-3'	16J1312-03	Soil	10/27/06 10:40	10/31/06 10:17
PI-4 8-10'	16J1312-04	Soil	10/27/06 10:55	10/31/06 10:17
PI-5 2-3'	16J1312-05	Soil	10/27/06 10:10	10/31/06 10:17
PI-5 8-10'	16J1312-06	Soil	10/27/06 10:15	10/31/06 10:17

Keystone Laboratories, Inc. - Newton

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Jeffrey King, Ph.D., Laboratory Director

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

PI-3 2-3'
16J1312-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.082	mg/kg dry	50	1K60141	10/30/06	11/01/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	ND	0.408	"	"	"	"	"	"	
Benzene	**1.88**	0.082	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.082	"	"	"	"	"	"	
Toluene	ND	0.082	"	"	"	"	"	"	
Ethylbenzene	**2.50**	0.082	"	"	"	"	"	"	
Xylenes, total	**0.678**	0.163	"	"	"	"	"	"	
Naphthalene	**2.32**	0.082	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	0.816	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	0.816	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	0.816	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	20.4	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*92.9 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*117 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	**172**	8.2	mg/kg dry	50	1K60141	"	11/01/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	**155**	74.8	mg/kg dry	1	1K60818	11/08/06	11/14/06	EPA 8270C	
TPH-ORO (C21-C35)	**641**	74.8	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*82.6 %*	*60-140*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*74.6 %*	*60-136*		"	"	"	"	
Surrogate: Terphenyl-d14		*114 %*	*60-140*		"	"	"	"	

Keystone Laboratories, Inc. - Newton

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Jeffrey King

Jeffrey King, Ph.D., Laboratory Director

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

PI-3 2-3'
16J1312-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Polynuclear Aromatic Hydrocarbons									
Naphthalene	ND	1650	ug/kg dry	1	1K60818	11/08/06	11/14/06	EPA 8270C	
Acenaphthene	ND	1650	"	"	"	"	"	"	
Fluorene	ND	1650	"	"	"	"	"	"	
Anthracene	ND	1650	"	"	"	"	"	"	
Fluoranthene	ND	1650	"	"	"	"	"	"	
Pyrene	ND	1650	"	"	"	"	"	"	
Benzo(a)anthracene	ND	1650	"	"	"	"	"	"	
Chrysene	ND	1650	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	1650	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	1650	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	1650	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	1650	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*82.6 %*	*60-140*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*74.7 %*	*60-136*		"	"	"	"	
Surrogate: Terphenyl-dl4		*114 %*	*60-140*		"	"	"	"	
Determination of Conventional Chemistry Parameters									
% Solids	80.1	0.1	%	1	1J63127	10/31/06	11/01/06	% calculation	
Determination of Total Metals									
Lead, total	119	3.8	mg/kg dry	1	1K60104	11/01/06	11/02/06	EPA 6010B	

Keystone Laboratories, Inc. - Newton

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Jeffrey King, Ph.D., Laboratory Director

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City 31 St.	**Reported:**
Kansas City MO, 64155	Project Manager: Mark Schulze	11/16/06 13:45

PI-3 8-9'
16J1312-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.156	mg/kg dry	100	1K60141	10/30/06	11/01/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	ND	0.779	"	"	"	"	"	"	
Benzene	6.33	0.156	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.156	"	"	"	"	"	"	
Toluene	0.398	0.156	"	"	"	"	"	"	
Ethylbenzene	18.8	0.156	"	"	"	"	"	"	
Xylenes, total	6.21	0.312	"	"	"	"	"	"	
Naphthalene	17.8	0.156	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	1.56	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	1.56	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	1.56	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	38.9	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*115 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	1800	15.6	mg/kg dry	100	1K60141	"	11/01/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	28.5	15.0	mg/kg dry	1	1K60818	11/08/06	11/13/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	15.0	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*52.1 %*	*60-140*		"	"	"	"	*S-07*
Surrogate: 2-Fluorobiphenyl		*43.4 %*	*60-136*		"	"	"	"	*S-07*
Surrogate: Terphenyl-dl4		*67.8 %*	*60-140*		"	"	"	"	

Keystone Laboratories, Inc. - Newton

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Jeffrey King, Ph.D., Laboratory Director

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

PI-3 8-9'
16J1312-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	79.4	0.1	%	1	1J63127	10/31/06	11/01/06	% calculation	
Determination of Total Metals									
Lead, total	18.9	3.7	mg/kg dry	1	1K60104	11/01/06	11/02/06	EPA 6010B	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

PI-4 2-3'
16J1312-03 (Soil)

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.078	mg/kg dry	50	1K60141	10/30/06	11/01/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	ND	0.389	"	"	"	"	"	"	
Benzene	0.913	0.078	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.078	"	"	"	"	"	"	
Toluene	ND	0.078	"	"	"	"	"	"	
Ethylbenzene	0.183	0.078	"	"	"	"	"	"	
Xylenes, total	1.64	0.156	"	"	"	"	"	"	
Naphthalene	ND	0.078	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	0.778	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	0.778	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	0.778	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	19.4	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*94.9 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	348	7.8	mg/kg dry	50	1K60141	"	11/01/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	329	75.0	mg/kg dry	5	1K60818	11/08/06	11/14/06	EPA 8270C	
TPH-ORO (C21-C35)	1480	75.0	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*63.3 %*	*60-140*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*60.4 %*	*60-136*		"	"	"	"	
Surrogate: Terphenyl-d14		*89.8 %*	*60-140*		"	"	"	"	

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Keystone Laboratories, Inc. - Newton

Jeffrey King

Jeffrey King, Ph.D., Laboratory Director

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

PI-4 2-3'
16J1312-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Polynuclear Aromatic Hydrocarbons									
Naphthalene	ND	1650	ug/kg dry	5	1K60818	11/08/06	11/14/06	EPA 8270C	
Acenaphthene	ND	1650	"	"	"	"	"	"	
Fluorene	ND	1650	"	"	"	"	"	"	
Anthracene	ND	1650	"	"	"	"	"	"	
Fluoranthene	ND	1650	"	"	"	"	"	"	
Pyrene	ND	1650	"	"	"	"	"	"	
Benzo(a)anthracene	ND	1650	"	"	"	"	"	"	
Chrysene	ND	1650	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	1650	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	1650	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	1650	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	1650	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*63.3 %*	*60-140*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*60.5 %*	*60-136*		"	"	"	"	
Surrogate: Terphenyl-dl4		*89.7 %*	*60-140*		"	"	"	"	
Determination of Conventional Chemistry Parameters									
% Solids	80.2	0.1	%	1	1J63127	10/31/06	11/01/06	% calculation	
Determination of Total Metals									
Lead, total	17.1	3.6	mg/kg dry	1	1K60104	11/01/06	11/02/06	EPA 6010B	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	Reported: 11/16/06 13:45

PI-4 8-10'

16J1312-04 (Soil)

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.084	mg/kg dry	50	1K60141	10/30/06	11/01/06	EPA 8260B	QC-02
Methyl-t-butyl Ether (MTBE)	ND	0.419	"	"	"	"	"	"	QC-02
Benzene	ND	0.084	"	"	"	"	"	"	QC-02
1,2-Dichloroethane	ND	0.084	"	"	"	"	"	"	QC-02
Toluene	ND	0.084	"	"	"	"	"	"	QC-02
Ethylbenzene	ND	0.084	"	"	"	"	"	"	QC-02
Xylenes, total	ND	0.168	"	"	"	"	"	"	QC-02
Naphthalene	ND	0.084	"	"	"	"	"	"	QC-02
Ethyl-tert-Butyl Ether (ETBE)	ND	0.838	"	"	"	"	"	"	QC-02
Di-iso-Propyl Ether (DIPE)	ND	0.838	"	"	"	"	"	"	QC-02
tert-Amyl Methyl Ether (TAME)	ND	0.838	"	"	"	"	"	"	QC-02
tert-Butyl Alcohol (TBA)	ND	20.9	"	"	"	"	"	"	QC-02
Surrogate: Dibromofluoromethane		*98.6 %*	*70-135*		"	"	"	"	*QC-02*
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*68-132*		"	"	"	"	*QC-02*
Surrogate: Toluene-d8		*109 %*	*73-123*		"	"	"	"	*QC-02*
Surrogate: 4-Bromofluorobenzene		*111 %*	*72-127*		"	"	"	"	*QC-02*
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	ND	8.4	mg/kg dry	50	1K60141	"	11/01/06	EPA 8260B	QC-02
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	ND	15.0	mg/kg dry	1	1K60818	11/08/06	11/13/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	15.0	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*41.7 %*	*60-140*		"	"	"	"	*S-07*
Surrogate: 2-Fluorobiphenyl		*31.5 %*	*60-136*		"	"	"	"	*S-07*
Surrogate: Terphenyl-d14		*68.4 %*	*60-140*		"	"	"	"	

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

PI-4 8-10'
16J1312-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	82.7	0.1	%	1	1J63127	10/31/06	11/01/06	% calculation	
Determination of Total Metals									
Lead, total	12.9	3.8	mg/kg dry	1	1K60104	11/01/06	11/02/06	EPA 6010B	

MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

PI-4 8-10'
16J1312-04RE1 (Soil)

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.0008	mg/kg dry	1	1K61404	11/13/06	11/13/06	EPA 8260B	QC-07
Methyl-t-butyl Ether (MTBE)	0.012	0.004	"	"	"	"	"	"	QC-07
Benzene	0.002	0.0008	"	"	"	"	"	"	QC-07
1,2-Dichloroethane	ND	0.0008	"	"	"	"	"	"	QC-07
Toluene	ND	0.0008	"	"	"	"	"	"	QC-07
Ethylbenzene	0.004	0.0008	"	"	"	"	"	"	QC-07
Xylenes, total	0.005	0.002	"	"	"	"	"	"	QC-07
Naphthalene	ND	0.0008	"	"	"	"	"	"	QC-07
Ethyl-tert-Butyl Ether (ETBE)	ND	0.008	"	"	"	"	"	"	QC-07
Di-iso-Propyl Ether (DIPE)	ND	0.008	"	"	"	"	"	"	QC-07
tert-Amyl Methyl Ether (TAME)	ND	0.008	"	"	"	"	"	"	QC-07
tert-Butyl Alcohol (TBA)	ND	0.203	"	"	"	"	"	"	QC-07
Surrogate: Dibromofluoromethane		*94.3 %*	*70-135*		"	"	"	"	*QC-07*
Surrogate: 1,2-Dichloroethane-d4		*132 %*	*68-132*		"	"	"	"	*QC-07*
Surrogate: Toluene-d8		*108 %*	*73-123*		"	"	"	"	*QC-07*
Surrogate: 4-Bromofluorobenzene		*123 %*	*72-127*		"	"	"	"	*QC-07*
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	9.0	0.08	mg/kg dry	1	1K61404	"	11/13/06	EPA 8260B	QC-07

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City 31 St.	Reported:
Kansas City MO, 64155	Project Manager: Mark Schulze	11/16/06 13:45

PI-5 2-3'
16J1312-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.074	mg/kg dry	50	1K60141	10/30/06	11/01/06	EPA 8260B	QC-02
Methyl-t-butyl Ether (MTBE)	ND	0.372	"	"	"	"	"	"	QC-02
Benzene	0.173	0.074	"	"	"	"	"	"	QC-02
1,2-Dichloroethane	ND	0.074	"	"	"	"	"	"	QC-02
Toluene	ND	0.074	"	"	"	"	"	"	QC-02
Ethylbenzene	ND	0.074	"	"	"	"	"	"	QC-02
Xylenes, total	ND	0.149	"	"	"	"	"	"	QC-02
Naphthalene	ND	0.074	"	"	"	"	"	"	QC-02
Ethyl-tert-Butyl Ether (ETBE)	ND	0.744	"	"	"	"	"	"	QC-02
Di-iso-Propyl Ether (DIPE)	ND	0.744	"	"	"	"	"	"	QC-02
tert-Amyl Methyl Ether (TAME)	ND	0.744	"	"	"	"	"	"	QC-02
tert-Butyl Alcohol (TBA)	ND	18.6	"	"	"	"	"	"	QC-02
Surrogate: Dibromofluoromethane		*97.8 %*	*70-135*		"	"	"	"	*QC-02*
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*68-132*		"	"	"	"	*QC-02*
Surrogate: Toluene-d8		*104 %*	*73-123*		"	"	"	"	*QC-02*
Surrogate: 4-Bromofluorobenzene		*105 %*	*72-127*		"	"	"	"	*QC-02*
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	ND	7.4	mg/kg dry	50	1K60141	"	11/01/06	EPA 8260B	QC-02
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	ND	15.0	mg/kg dry	1	1K60818	11/08/06	11/13/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	15.0	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*37.8 %*	*60-140*		"	"	"	"	*S-07*
Surrogate: 2-Fluorobiphenyl		*36.4 %*	*60-136*		"	"	"	"	*S-07*
Surrogate: Terphenyl-d14		*63.2 %*	*60-140*		"	"	"	"	

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

PI-5 2-3'
16J1312-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	80.4	0.1	%	1	1J63127	10/31/06	11/01/06	% calculation	
Determination of Total Metals									
Lead, total	16.1	3.8	mg/kg dry	1	1K60104	11/01/06	11/02/06	EPA 6010B	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

PI-5 2-3'
16J1312-05RE1 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.0008	mg/kg dry	1	1K61404	11/13/06	11/13/06	EPA 8260B	QC-07
Methyl-t-butyl Ether (MTBE)	0.128	0.004	"	"	"	"	"	"	QC-07
Benzene	0.141	0.0008	"	"	"	"	"	"	QC-07
1,2-Dichloroethane	ND	0.0008	"	"	"	"	"	"	QC-07
Toluene	0.005	0.0008	"	"	"	"	"	"	QC-07
Ethylbenzene	0.019	0.0008	"	"	"	"	"	"	QC-07
Xylenes, total	0.013	0.002	"	"	"	"	"	"	QC-07
Naphthalene	0.004	0.0008	"	"	"	"	"	"	QC-07
Ethyl-tert-Butyl Ether (ETBE)	ND	0.008	"	"	"	"	"	"	QC-07
Di-iso-Propyl Ether (DIPE)	ND	0.008	"	"	"	"	"	"	QC-07
tert-Amyl Methyl Ether (TAME)	0.008	0.008	"	"	"	"	"	"	QC-07
tert-Butyl Alcohol (TBA)	ND	0.201	"	"	"	"	"	"	QC-07
Surrogate: Dibromofluoromethane		*96.4 %*	*70-135*		"	"	"	"	QC-07
Surrogate: 1,2-Dichloroethane-d4		*125 %*	*68-132*		"	"	"	"	QC-07
Surrogate: Toluene-d8		*106 %*	*73-123*		"	"	"	"	QC-07
Surrogate: 4-Bromofluorobenzene		*103 %*	*72-127*		"	"	"	"	QC-07
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	4.1	0.08	mg/kg dry	1	1K61404	"	11/13/06	EPA 8260B	QC-07

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

PI-5 8-10'
16J1312-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Volatile Organic Compounds									
1,2-Dibromoethane	ND	0.091	mg/kg dry	50	1K60141	10/30/06	11/01/06	EPA 8260B	
Methyl-t-butyl Ether (MTBE)	ND	0.455	"	"	"	"	"	"	
Benzene	4.60	0.091	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.091	"	"	"	"	"	"	
Toluene	ND	0.091	"	"	"	"	"	"	
Ethylbenzene	5.08	0.091	"	"	"	"	"	"	
Xylenes, total	15.5	0.182	"	"	"	"	"	"	
Naphthalene	0.936	0.091	"	"	"	"	"	"	
Ethyl-tert-Butyl Ether (ETBE)	ND	0.911	"	"	"	"	"	"	
Di-iso-Propyl Ether (DIPE)	ND	0.911	"	"	"	"	"	"	
tert-Amyl Methyl Ether (TAME)	ND	0.911	"	"	"	"	"	"	
tert-Butyl Alcohol (TBA)	ND	22.8	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*	*70-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*68-132*		"	"	"	"	
Surrogate: Toluene-d8		*106 %*	*73-123*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*72-127*		"	"	"	"	
Determination of Total Petroleum Hydrocarbons									
TPH-GRO (C6-C10)	105	9.1	mg/kg dry	50	1K60141	"	11/01/06	EPA 8260B	
Determination of Extractable Petroleum Hydrocarbons									
TPH-DRO (C10-C21)	ND	15.0	mg/kg dry	1	1K60818	11/08/06	11/13/06	EPA 8270C	
TPH-ORO (C21-C35)	ND	15.0	"	"	"	"	"	"	S-07
Surrogate: Nitrobenzene-d5		*52.0 %*	*60-140*		"	"	"	"	S-07
Surrogate: 2-Fluorobiphenyl		*42.9 %*	*60-136*		"	"	"	"	
Surrogate: Terphenyl-d14		*75.6 %*	*60-140*		"	"	"	"	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

PI-5 8-10'
16J1312-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
% Solids	81.9	0.1	%	1	1J63127	10/31/06	11/01/06	% calculation	
Determination of Total Metals									
Lead, total	9.6	3.6	mg/kg dry	1	1K60104	11/01/06	11/02/06	EPA 6010B	

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16K0113 - 1K60141										
Calibration Check (16K0113-CCV1)				Prepared: 10/30/06 Analyzed: 10/31/06						
1,2-Dibromoethane	75.35		mg/kg wet	82.00		91.9	80-120			
Methyl-t-butyl Ether (MTBE)	82.46		"	73.00		113	80-120			
Benzene	86.37		"	82.50		105	80-120			
1,2-Dichloroethane	77.60		"	72.50		107	80-120			
Toluene	58.72		"	65.00		90.3	80-120			
Ethylbenzene	83.77		"	74.00		113	80-120			
Xylenes, total	164.3		"	150.0		110	80-120			
Naphthalene	42.04		"	48.80		86.1	80-120			
Ethyl-tert-Butyl Ether (ETBE)	65.45		"	59.50		110	80-120			
Di-iso-Propyl Ether (DIPE)	67.51		"	61.00		111	80-120			
tert-Amyl Methyl Ether (TAME)	62.89		"	57.00		110	80-120			
tert-Butyl Alcohol (TBA)	1316		"	1200		110	80-120			
Surrogate: Dibromofluoromethane	*52.1*		"	*50.00*		*104*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*51.5*		"	*50.00*		*103*	*80-120*			
Surrogate: Toluene-d8	*49.2*		"	*50.00*		*98.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*53.0*		"	*50.00*		*106*	*80-120*			
Batch 16K1404 - 1K61404										
Calibration Check (16K1404-CCV1)				Prepared & Analyzed: 11/13/06						
1,2-Dibromoethane	91.25		mg/kg wet	78.40		116	80-120			
Methyl-t-butyl Ether (MTBE)	60.19		"	54.80		110	80-120			
Benzene	61.21		"	55.40		110	80-120			
1,2-Dichloroethane	69.73		"	63.60		110	80-120			
Toluene	75.27		"	65.40		115	80-120			
Ethylbenzene	64.85		"	55.40		117	80-120			
Xylenes, total	154.2		"	133.6		115	80-120			
Naphthalene	53.03		"	44.80		118	80-120			
Ethyl-tert-Butyl Ether (ETBE)	77.92		"	71.20		109	80-120			
Di-iso-Propyl Ether (DIPE)	66.41		"	63.60		104	80-120			
tert-Amyl Methyl Ether (TAME)	50.98		"	43.20		118	80-120			
tert-Butyl Alcohol (TBA)	1134		"	1036		109	80-120			
Surrogate: Dibromofluoromethane	*48.7*		"	*50.00*		*97.4*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*55.7*		"	*50.00*		*111*	*80-120*			
Surrogate: Toluene-d8	*54.2*		"	*50.00*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*54.4*		"	*50.00*		*109*	*80-120*			

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K60141 - EPA 5030B										
Blank (1K60141-BLK1)				Prepared: 10/30/06 Analyzed: 10/31/06						
1,2-Dibromoethane	ND	0.100	mg/kg wet							
Methyl-t-butyl Ether (MTBE)	ND	0.500	"							
Benzene	ND	0.100	"							
1,2-Dichloroethane	ND	0.100	"							
Toluene	ND	0.100	"							
Ethylbenzene	ND	0.100	"							
Xylenes, total	ND	0.200	"							
Naphthalene	ND	0.100	"							
Ethyl-tert-Butyl Ether (ETBE)	ND	1.00	"							
Di-iso-Propyl Ether (DIPE)	ND	1.00	"							
tert-Amyl Methyl Ether (TAME)	ND	1.00	"							
tert-Butyl Alcohol (TBA)	ND	25.0	"							
Surrogate: Dibromofluoromethane	*0.102*		"	*0.1000*		*102*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.106*		"	*0.1000*		*106*	*68-132*			
Surrogate: Toluene-d8	*0.104*		"	*0.1000*		*104*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.106*		"	*0.1000*		*106*	*72-127*			
LCS (1K60141-BS1)				Prepared: 10/30/06 Analyzed: 10/31/06						
1,2-Dibromoethane	7.664	0.100	mg/kg wet	7.860		97.5	60-140		30	
Methyl-t-butyl Ether (MTBE)	6.229	0.500	"	6.000		104	52-145		18	
Benzene	5.655	0.100	"	5.040		112	61-140		23	
1,2-Dichloroethane	8.042	0.100	"	7.140		113	71-135		20	
Toluene	6.710	0.100	"	5.920		113	76-140		17	
Ethylbenzene	8.513	0.100	"	7.560		113	72-140		24	
Xylenes, total	14.24	0.200	"	11.40		125	76-132		23	
Naphthalene	4.083	0.100	"	5.420		75.3	50-148		22	
Ethyl-tert-Butyl Ether (ETBE)	6.778	1.00	"	7.000		96.8	60-140		30	
Di-iso-Propyl Ether (DIPE)	5.185	1.00	"	5.420		95.7	60-140		30	
tert-Amyl Methyl Ether (TAME)	5.090	1.00	"	4.920		103	60-140		30	
tert-Butyl Alcohol (TBA)	136.3	25.0	"	110.2		124	60-140		30	
Surrogate: Dibromofluoromethane	*0.0946*		"	*0.1000*		*94.6*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.101*		"	*0.1000*		*101*	*68-132*			
Surrogate: Toluene-d8	*0.102*		"	*0.1000*		*102*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.109*		"	*0.1000*		*109*	*72-127*			

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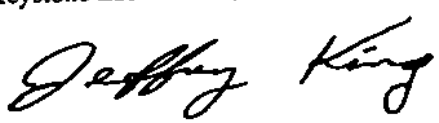

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K60141 - EPA 5030B										
Matrix Spike (1K60141-MS1)	Source: 16J1067-02			Prepared: 10/30/06 Analyzed: 10/31/06						
1,2-Dibromoethane	7.583	0.099	mg/kg wet	7.798	ND	97.2	62-133		23	
Methyl-t-butyl Ether (MTBE)	5.804	0.496	"	5.952	ND	97.5	50-150		23	
Benzene	4.951	0.099	"	5.000	ND	99.0	60-140		27	
1,2-Dichloroethane	7.046	0.099	"	7.083	ND	99.5	65-138		23	
Toluene	6.262	0.099	"	5.873	ND	107	63-140		29	
Ethylbenzene	8.183	0.099	"	7.500	ND	109	56-150		29	
Xylenes, total	14.62	0.198	"	11.31	ND	129	57-142		28	
Naphthalene	4.660	0.099	"	5.377	ND	86.7	50-150		30	
Ethyl-tert-Butyl Ether (ETBE)	6.362	0.992	"	6.944	ND	91.6	60-140		30	
Di-iso-Propyl Ether (DIPE)	4.903	0.992	"	5.377	ND	91.2	60-140		30	
tert-Amyl Methyl Ether (TAME)	4.697	0.992	"	4.881	ND	96.2	60-140		30	
tert-Butyl Alcohol (TBA)	128.0	24.8	"	109.4	ND	117	60-140		30	
Surrogate: Dibromofluoromethane	*0.0993*		"	*0.0992*		*100*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.101*		"	*0.0992*		*102*	*68-132*			
Surrogate: Toluene-d8	*0.106*		"	*0.0992*		*107*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.112*		"	*0.0992*		*113*	*72-127*			
Matrix Spike Dup (1K60141-MSD1)	Source: 16J1067-02			Prepared: 10/30/06 Analyzed: 10/31/06						
1,2-Dibromoethane	6.952	0.099	mg/kg wet	7.798	ND	89.2	62-133	8.68	23	
Methyl-t-butyl Ether (MTBE)	5.688	0.496	"	5.952	ND	95.6	50-150	2.02	23	
Benzene	5.018	0.099	"	5.000	ND	100	60-140	1.34	27	
1,2-Dichloroethane	7.028	0.099	"	7.083	ND	99.2	65-138	0.256	23	
Toluene	6.158	0.099	"	5.873	ND	105	63-140	1.67	29	
Ethylbenzene	7.241	0.099	"	7.500	ND	96.5	56-150	12.2	29	
Xylenes, total	12.22	0.198	"	11.31	ND	108	57-142	17.9	28	
Naphthalene	4.073	0.099	"	5.377	ND	75.7	50-150	13.4	30	
Ethyl-tert-Butyl Ether (ETBE)	6.479	0.992	"	6.944	ND	93.3	60-140	1.82	30	
Di-iso-Propyl Ether (DIPE)	5.174	0.992	"	5.377	ND	96.2	60-140	5.38	30	
tert-Amyl Methyl Ether (TAME)	4.656	0.992	"	4.881	ND	95.4	60-140	0.877	30	
tert-Butyl Alcohol (TBA)	130.3	24.8	"	109.4	ND	119	60-140	1.78	30	
Surrogate: Dibromofluoromethane	*0.0944*		"	*0.0992*		*95.2*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.0999*		"	*0.0992*		*101*	*68-132*			
Surrogate: Toluene-d8	*0.102*		"	*0.0992*		*103*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.100*		"	*0.0992*		*101*	*72-127*			

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K61404 - EPA 5030B										
Blank (1K61404-BLK1)				Prepared & Analyzed: 11/13/06						
1,2-Dibromoethane	ND	0.001	mg/kg wet							
Methyl-t-butyl Ether (MTBE)	ND	0.005	"							
Benzene	ND	0.001	"							
1,2-Dichloroethane	ND	0.001	"							
Toluene	ND	0.001	"							
Ethylbenzene	ND	0.001	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.001	"							
Ethyl-tert-Butyl Ether (ETBE)	ND	0.010	"							
Di-iso-Propyl Ether (DIPE)	ND	0.010	"							
tert-Amyl Methyl Ether (TAME)	ND	0.010	"							
tert-Butyl Alcohol (TBA)	ND	0.250	"							
Surrogate: Dibromofluoromethane	*0.0461*		"	*0.0500*		*92.2*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.0536*		"	*0.0500*		*107*	*68-132*			
Surrogate: Toluene-d8	*0.0518*		"	*0.0500*		*104*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.0522*		"	*0.0500*		*104*	*72-127*			
LCS (1K61404-BS1)				Prepared & Analyzed: 11/13/06						
1,2-Dibromoethane	0.0413	0.001	mg/kg wet	0.0786		52.5	60-140	30		QM-21
Methyl-t-butyl Ether (MTBE)	0.0673	0.005	"	0.0600		112	52-145	18		
Benzene	0.0602	0.001	"	0.0504		119	61-140	23		
1,2-Dichloroethane	0.0862	0.001	"	0.0714		121	71-135	20		
Toluene	0.0809	0.001	"	0.0592		137	76-140	17		
Ethylbenzene	0.0804	0.001	"	0.0756		106	72-140	24		
Xylenes, total	0.1400	0.002	"	0.1140		123	76-132	23		
Naphthalene	0.0540	0.001	"	0.0542		99.6	50-148	22		
Ethyl-tert-Butyl Ether (ETBE)	0.0815	0.010	"	0.0700		116	60-140	30		
Di-iso-Propyl Ether (DIPE)	0.0630	0.010	"	0.0542		116	60-140	30		
tert-Amyl Methyl Ether (TAME)	0.0545	0.010	"	0.0492		111	60-140	30		
tert-Butyl Alcohol (TBA)	1.186	0.250	"	1.102		108	60-140	30		
Surrogate: Dibromofluoromethane	*0.0477*		"	*0.0500*		*95.4*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.0534*		"	*0.0500*		*107*	*68-132*			
Surrogate: Toluene-d8	*0.0524*		"	*0.0500*		*105*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.0533*		"	*0.0500*		*107*	*72-127*			

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K61404 - EPA 5030B										
Matrix Spike (1K61404-MS1)	Source: 16K0024-01			Prepared & Analyzed: 11/13/06						
1,2-Dibromoethane	0.1940	0.005	mg/kg wet	0.3930	ND	49.4	62-133		23	QM-13
Methyl-t-butyl Ether (MTBE)	0.3123	0.025	"	0.3000	ND	104	50-150		23	
Benzene	0.2811	0.005	"	0.2520	ND	112	60-140		27	
1,2-Dichloroethane	0.3772	0.005	"	0.3570	ND	106	65-138		23	
Toluene	0.3818	0.005	"	0.2960	ND	129	63-140		29	
Ethylbenzene	0.3843	0.005	"	0.3780	ND	102	56-150		29	
Xylenes, total	0.6126	0.010	"	0.5700	ND	107	57-142		28	
Naphthalene	0.1460	0.005	"	0.2710	ND	53.9	50-150		30	
Ethyl-tert-Butyl Ether (ETBE)	0.3472	0.050	"	0.3500	ND	99.2	60-140		30	
Di-iso-Propyl Ether (DIPE)	0.2834	0.050	"	0.2710	ND	105	60-140		30	
tert-Amyl Methyl Ether (TAME)	0.2601	0.050	"	0.2460	ND	106	60-140		30	
tert-Butyl Alcohol (TBA)	5.053	1.25	"	5.512	ND	91.7	60-140		30	
Surrogate: Dibromofluoromethane	*0.230*		"	*0.2500*		*92.0*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.271*		"	*0.2500*		*108*	*68-132*			
Surrogate: Toluene-d8	*0.269*		"	*0.2500*		*108*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.271*		"	*0.2500*		*108*	*72-127*			
Matrix Spike Dup (1K61404-MSD1)	Source: 16K0024-01			Prepared & Analyzed: 11/13/06						
1,2-Dibromoethane	0.1898	0.005	mg/kg wet	0.3930	ND	48.3	62-133	2.19	23	QM-13
Methyl-t-butyl Ether (MTBE)	0.3146	0.025	"	0.3000	ND	105	50-150	0.734	23	
Benzene	0.2664	0.005	"	0.2520	ND	106	60-140	5.37	27	
1,2-Dichloroethane	0.3778	0.005	"	0.3570	ND	106	65-138	0.159	23	
Toluene	0.3834	0.005	"	0.2960	ND	130	63-140	0.418	29	
Ethylbenzene	0.3537	0.005	"	0.3780	ND	93.6	56-150	8.29	29	
Xylenes, total	0.5911	0.010	"	0.5700	ND	104	57-142	3.57	28	
Naphthalene	0.1415	0.005	"	0.2710	ND	52.2	50-150	3.13	30	
Ethyl-tert-Butyl Ether (ETBE)	0.3592	0.050	"	0.3500	ND	103	60-140	3.40	30	
Di-iso-Propyl Ether (DIPE)	0.2800	0.050	"	0.2710	ND	103	60-140	1.21	30	
tert-Amyl Methyl Ether (TAME)	0.2468	0.050	"	0.2460	ND	100	60-140	5.25	30	
tert-Butyl Alcohol (TBA)	5.228	1.25	"	5.512	ND	94.8	60-140	3.40	30	
Surrogate: Dibromofluoromethane	*0.235*		"	*0.2500*		*94.0*	*70-135*			
Surrogate: 1,2-Dichloroethane-d4	*0.277*		"	*0.2500*		*111*	*68-132*			
Surrogate: Toluene-d8	*0.275*		"	*0.2500*		*110*	*73-123*			
Surrogate: 4-Bromofluorobenzene	*0.271*		"	*0.2500*		*108*	*72-127*			

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	Reported: 11/16/06 13:45

Determination of Total Petroleum Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16K1404 - 1K61404										
Calibration Check (16K1404-CCV2)				Prepared & Analyzed: 11/13/06						
TPH-GRO (C6-C10)	510.1		mg/kg wet	500.0		102	80-120			
Batch 1K60141 - EPA 5030B										
Blank (1K60141-BLK1)				Prepared: 10/30/06 Analyzed: 10/31/06						
TPH-GRO (C6-C10)	ND	10.0	mg/kg wet							
Batch 1K61404 - EPA 5030B										
Blank (1K61404-BLK1)				Prepared & Analyzed: 11/13/06						
TPH-GRO (C6-C10)	ND	0.1	mg/kg wet							

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

Determination of Extractable Petroleum Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16K1415 - 1K60818										
Calibration Check (16K1415-CCV1)				Prepared & Analyzed: 11/13/06						
TPH-DRO (C10-C21)	1440		mg/kg wet	1210		119	80-120			
Surrogate: Nitrobenzene-d5	*40.9*		"	*41.15*		*99.4*	*80-120*			
Surrogate: 2-Fluorobiphenyl	*39.6*		"	*41.20*		*96.1*	*80-120*			
Surrogate: Terphenyl-dl4	*38.9*		"	*41.11*		*94.6*	*80-120*			
Batch 1K60818 - 3545 BNA PFE										
Blank (1K60818-BLK1)				Prepared: 11/08/06 Analyzed: 11/13/06						
TPH-DRO (C10-C21)	ND	15.0	mg/kg wet							
TPH-ORO (C21-C35)	ND	15.0	"							
Surrogate: Nitrobenzene-d5	*1.71*		"	*3.04*		*56.2*	*60-140*			*S-07*
Surrogate: 2-Fluorobiphenyl	*1.65*		"	*3.00*		*55.0*	*60-136*			*S-07*
Surrogate: Terphenyl-dl4	*2.50*		"	*3.07*		*81.4*	*60-140*			
LCS (1K60818-BS1)				Prepared: 11/08/06 Analyzed: 11/13/06					30	
TPH-DRO (C10-C21)	36.73	15.0	mg/kg wet	38.33		95.8	70-130			*S-BN*
Surrogate: Nitrobenzene-d5	*1.72*		"	*3.04*		*56.6*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*1.80*		"	*3.00*		*60.0*	*60-136*			
Surrogate: Terphenyl-dl4	*2.49*		"	*3.07*		*81.1*	*60-140*			
Matrix Spike (1K60818-MS1)		Source: 16J1312-04		Prepared: 11/08/06 Analyzed: 11/13/06					30	
TPH-DRO (C10-C21)	36.63	15.0	mg/kg dry	46.29	ND	79.1	70-130			
Surrogate: Nitrobenzene-d5	*2.32*		"	*3.68*		*63.0*	*60-140*			*S-BN*
Surrogate: 2-Fluorobiphenyl	*2.14*		"	*3.62*		*59.1*	*60-136*			
Surrogate: Terphenyl-dl4	*2.81*		"	*3.71*		*75.7*	*60-140*			
Matrix Spike Dup (1K60818-MSD1)		Source: 16J1312-04		Prepared: 11/08/06 Analyzed: 11/13/06					30	
TPH-DRO (C10-C21)	38.83	15.0	mg/kg dry	46.28	ND	83.9	70-130	5.83		
Surrogate: Nitrobenzene-d5	*2.31*		"	*3.67*		*62.9*	*60-140*			*S-BN*
Surrogate: 2-Fluorobiphenyl	*2.07*		"	*3.62*		*57.2*	*60-136*			
Surrogate: Terphenyl-dl4	*2.92*		"	*3.71*		*78.7*	*60-140*			

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

Determination of Extractable Petroleum Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K60818 - 3545 BNA PFE										
Reference (1K60818-SRM1)				Prepared: 11/08/06 Analyzed: 11/13/06						
TPH-DRO (C10-C21)	50.50	15.0	mg/kg wet	38.33		132	70-130			QR-05
Surrogate: Nitrobenzene-d5	*3.55*		"	*3.04*		*117*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2.66*		"	*3.00*		*88.7*	*60-136*			
Surrogate: Terphenyl-dl4	*2.67*		"	*3.07*		*87.0*	*60-140*			

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

Determination of Polynuclear Aromatic Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16K1415 - 1K60818										
Calibration Check (16K1415-CCV1)				Prepared & Analyzed: 11/13/06						
Naphthalene	37.04		ug/kg wet	45.00		82.3	80-120			
Acenaphthene	41.45		"	45.00		92.1	80-120			
Fluorene	40.60		"	45.00		90.2	80-120			
Anthracene	42.03		"	45.00		93.4	80-120			
Fluoranthene	40.63		"	45.00		90.3	80-120			
Pyrene	37.28		"	45.00		82.8	80-120			
Benzo(a)anthracene	39.37		"	45.00		87.5	80-120			
Chrysene	38.46		"	45.00		85.5	80-120			
Benzo(b)Fluoranthene	39.23		"	45.00		87.2	80-120			
Benzo(k)Fluoranthene	36.07		"	45.00		80.2	80-120			
Benzo(a)Pyrene	40.34		"	45.00		89.6	80-120			
Dibenzo(a,h)anthracene	47.29		"	45.00		105	80-120			
Surrogate: Nitrobenzene-d5	*40.9*		"	*41.15*		*99.4*	*80-120*			
Surrogate: 2-Fluorobiphenyl	*39.6*		"	*41.20*		*96.1*	*80-120*			
Surrogate: Terphenyl-dl4	*38.9*		"	*41.11*		*94.6*	*80-120*			
Batch 1K60818 - 3545 BNA PFE										
Blank (1K60818-BLK1)				Prepared: 11/08/06 Analyzed: 11/13/06						
Naphthalene	ND	330	ug/kg wet							
Acenaphthene	ND	330	"							
Fluorene	ND	330	"							
Anthracene	ND	330	"							
Fluoranthene	ND	330	"							
Pyrene	ND	330	"							
Benzo(a)anthracene	ND	330	"							
Chrysene	ND	330	"							
Benzo(b)Fluoranthene	ND	330	"							
Benzo(k)Fluoranthene	ND	330	"							
Benzo(a)Pyrene	ND	330	"							
Dibenzo(a,h)anthracene	*1710*		"	*3043*		*56.2*	*60-140*			*S-07*
Surrogate: Nitrobenzene-d5	*1650*		"	*3002*		*55.0*	*60-136*			*S-07*
Surrogate: 2-Fluorobiphenyl	*2500*		"	*3070*		*81.4*	*60-140*			
Surrogate: Terphenyl-dl4										

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Determination of Polynuclear Aromatic Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K60818 - 3545 BNA PFE										
LCS (1K60818-BS1)				Prepared: 11/08/06 Analyzed: 11/13/06						
Naphthalene	607.0	330	ug/kg wet	920.0		66.0	60-120		40	
Acenaphthene	616.0	330	"	920.0		67.0	60-133		20	
Fluorene	619.0	330	"	920.0		67.3	60-132		20	
Anthracene	633.3	330	"	920.0		68.8	60-129		40	
Fluoranthene	769.7	330	"	920.0		83.7	60-130		40	
Pyrene	631.0	330	"	920.0		68.6	60-121		40	
Chrysene	689.7	330	"	920.0		75.0	60-119		20	
Benzo(b)Fluoranthene	602.7	330	"	920.0		65.5	60-140		40	
Benzo(k)Fluoranthene	736.3	330	"	920.0		80.0	60-140		40	
Benzo(a)Pyrene	633.3	330	"	920.0		68.8	60-135		20	
Surrogate: Nitrobenzene-d5	*1720*		"	*3043*		*56.5*	*60-140*			*S-BN*
Surrogate: 2-Fluorobiphenyl	*1800*		"	*3002*		*60.0*	*60-136*			
Surrogate: Terphenyl-dl4	*2490*		"	*3070*		*81.1*	*60-140*			
Matrix Spike (1K60818-MS1)			Source: 16J1312-04	Prepared: 11/08/06 Analyzed: 11/13/06						
Naphthalene	699.2	330	ug/kg dry	1111	ND	62.9	60-140		40	
Acenaphthene	711.3	330	"	1111	ND	64.0	60-140		30	
Fluorene	722.1	330	"	1111	ND	65.0	60-137		30	
Anthracene	612.6	330	"	1111	ND	55.1	50-136		30	
Fluoranthene	791.0	330	"	1111	ND	71.2	60-140		30	
Pyrene	679.5	330	"	1111	ND	61.2	60-140		30	
Chrysene	783.7	330	"	1111	ND	70.5	60-140		30	
Benzo(b)Fluoranthene	698.0	330	"	1111	ND	62.8	60-140		40	
Benzo(k)Fluoranthene	704.4	330	"	1111	ND	63.4	60-140		40	
Benzo(a)Pyrene	638.0	330	"	1111	ND	57.4	60-140		30	QM-05
Surrogate: Nitrobenzene-d5	*2320*		"	*3675*		*63.1*	*60-140*			*S-BN*
Surrogate: 2-Fluorobiphenyl	*2140*		"	*3625*		*59.0*	*60-136*			
Surrogate: Terphenyl-dl4	*2810*		"	*3707*		*75.8*	*60-140*			

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Determination of Polynuclear Aromatic Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K60818 - 3545 BNA PFE										
Matrix Spike Dup (1K60818-MSD1)	Source: 16J1312-04			Prepared: 11/08/06 Analyzed: 11/13/06						
Naphthalene	647.0	330	ug/kg dry	1111	ND	58.2	60-140	7.76	40	QM-05
Acenaphthene	575.4	330	"	1111	ND	51.8	60-140	21.1	30	QM-05
Fluorene	657.9	330	"	1111	ND	59.2	60-137	9.30	30	QM-05
Anthracene	513.1	330	"	1111	ND	46.2	50-136	17.7	30	QM-05
Fluoranthene	740.8	330	"	1111	ND	66.7	60-140	6.55	30	
Pyrene	662.3	330	"	1111	ND	59.6	60-140	2.56	30	QM-05
Chrysene	711.4	330	"	1111	ND	64.0	60-140	9.67	30	
Benzo(b)Fluoranthene	731.1	330	"	1111	ND	65.8	60-140	4.63	40	
Benzo(k)Fluoranthene	540.4	330	"	1111	ND	48.6	60-140	26.3	40	QM-05
Benzo(a)Pyrene	540.8	330	"	1111	ND	48.7	60-140	16.5	30	QM-05
Surrogate: Nitrobenzene-d5	*2310*		"	*3674*		*62.9*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2070*		"	*3624*		*57.1*	*60-136*			*S-BN*
Surrogate: Terphenyl-dl4	*2920*		"	*3706*		*78.8*	*60-140*			
Reference (1K60818-SRM1)				Prepared: 11/08/06 Analyzed: 11/13/06						
Naphthalene	1115	330	ug/kg wet	920.0		121	70-130			
Acenaphthene	894.7	330	"	920.0		97.2	70-130			
Fluorene	892.3	330	"	920.0		97.0	70-130			
Anthracene	700.7	330	"	920.0		76.2	70-130			
Fluoranthene	867.3	330	"	920.0		94.3	70-130			
Pyrene	663.0	330	"	920.0		72.1	70-130			
Benzo(a)anthracene	803.0	330	"	920.0		87.3	70-130			
Chrysene	816.7	330	"	920.0		88.8	70-130			
Benzo(b)Fluoranthene	787.0	330	"	920.0		85.5	70-130			
Benzo(k)Fluoranthene	746.7	330	"	920.0		81.2	70-130			
Benzo(a)Pyrene	773.7	330	"	920.0		84.1	70-130			
Dibenzo(a,h)anthracene	921.7	330	"	920.0		100	70-130			
Surrogate: Nitrobenzene-d5	*3550*		"	*3043*		*117*	*60-140*			
Surrogate: 2-Fluorobiphenyl	*2660*		"	*3002*		*88.6*	*60-136*			
Surrogate: Terphenyl-dl4	*2670*		"	*3070*		*87.0*	*60-140*			

Keystone Laboratories, Inc. - Newton

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J63127 - Wet Chem Preparation										
Duplicate (1J63127-DUP1)		**Source: 16J1312-06**		Prepared: 10/31/06 Analyzed: 11/01/06						
% Solids	82.3	0.1	%		81.9			0.487	20	
Duplicate (1J63127-DUP2)		**Source: 16J1336-08**		Prepared: 10/31/06 Analyzed: 11/01/06						
% Solids	2.80	0.1	%		2.8			0.00	20	

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Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16K0205 - 1K60131										
Calibration Blank (16K0205-CCB1)				Prepared & Analyzed: 11/02/06						
Lead, total	0.004		mg/l	0.000						
Calibration Blank (16K0205-CCB2)				Prepared & Analyzed: 11/02/06						
Lead, total	0.001		mg/l	0.000						
Calibration Blank (16K0205-CCB3)				Prepared & Analyzed: 11/02/06						
Lead, total	0.004		mg/l	0.000						
Calibration Blank (16K0205-CCB4)				Prepared & Analyzed: 11/02/06						
Lead, total	0.001		mg/l	0.000						
Calibration Blank (16K0205-CCB5)				Prepared & Analyzed: 11/02/06						
Lead, total	0.004		mg/l	0.000						
Calibration Check (16K0205-CCV1)				Prepared & Analyzed: 11/02/06						
Lead, total	0.991		mg/l	1.000		99.1	90-110			
Calibration Check (16K0205-CCV2)				Prepared & Analyzed: 11/02/06						
Lead, total	0.987		mg/l	1.000		98.7	90-110			
Calibration Check (16K0205-CCV3)				Prepared & Analyzed: 11/02/06						
Lead, total	0.980		mg/l	1.000		98.0	90-110			
Calibration Check (16K0205-CCV4)				Prepared & Analyzed: 11/02/06						
Lead, total	0.982		mg/l	1.000		98.2	90-110			
Calibration Check (16K0205-CCV5)				Prepared & Analyzed: 11/02/06						
Lead, total	0.992		mg/l	1.000		99.2	90-110			

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MHS Environmental, Inc. 13-A NW Barry Rd. PMB-192 Kansas City MO, 64155	Project: Missouri RBCA UST Project Number: Inner City 31 St. Project Manager: Mark Schulze	**Reported:** 11/16/06 13:45

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 16K0205 - 1K60131										
High Cal Check (16K0205-HCV2)				Prepared & Analyzed: 11/02/06						
Lead, total	19.4		mg/l	20.00		97.0	90-110			
Initial Cal Blank (16K0205-ICB1)				Prepared & Analyzed: 11/02/06						
Lead, total	0.002		mg/l	0.000						
Initial Cal Check (16K0205-ICV1)				Prepared & Analyzed: 11/02/06						
Lead, total	0.998		mg/l	1.000		99.8	90-110			
Secondary Cal Check (16K0205-SCV1)				Prepared & Analyzed: 11/02/06						
Lead, total	0.506		mg/l	0.500		101	90-110			
Batch 1K60104 - EPA 3050B Solid Dig										
Blank (1K60104-BLK1)				Prepared: 11/01/06 Analyzed: 11/02/06						
Lead, total	ND	0.05	mg/kg wet							
LCS (1K60104-BS1)				Prepared: 11/01/06 Analyzed: 11/02/06						
Lead, total	1.97	0.05	mg/kg wet	2.00		98.5	87-115		20	
Matrix Spike (1K60104-MS1)	Source: 16J1312-02			Prepared: 11/01/06 Analyzed: 11/02/06						
Lead, total	159	3.7	mg/kg dry	188.0	18.9	74.5	68-111		22	
Matrix Spike Dup (1K60104-MSD1)	Source: 16J1312-02			Prepared: 11/01/06 Analyzed: 11/02/06						
Lead, total	162	3.7	mg/kg dry	188.0	18.9	76.1	68-111	1.87	22	
Post Spike (1K60104-PS1)	Source: 16J1312-02			Prepared: 11/01/06 Analyzed: 11/02/06						
Lead, total	33.5	3.7	mg/kg dry	18.66	18.9	78.2	60-133		20	

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MHS Environmental, Inc.	Project: Missouri RBCA UST	
13-A NW Barry Rd. PMB-192	Project Number: Inner City 31 St.	**Reported:**
Kansas City MO, 64155	Project Manager: Mark Schulze	11/16/06 13:45

Notes and Definitions

S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
S-07	The surrogate recovery for this sample is outside of established control limits.
S-07	The surrogate recovery for this sample is outside of established control limits.
QR-05	The reference standard was outside of established control limits. The batch was accepted based on acceptable LCS, MS/MSD and RPD results.
QM-21	The recovery for the blank spike was outside the established laboratory control limits. The batch was accepted based upon the acceptable recovery of the CCV.
QM-13	The spike recovery was outside acceptance limits for the MS and/or MSD. Batch accepted based on acceptable initial and continuing calibration results.
QM-05	The spike recovery and/or RPD was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QC-07	Sample was originally analyzed within recommended hold time. However, the sample was over diluted giving inflated detection limits. The sample was rediluted and reanalyzed outside of the recommended hold time.
QC-02	Sample was over diluted giving inflated detection limits. The sample to be rediluted and reanalyzed.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference