# Addendum

## Missouri Department of Natural Resources
### Environmental Services Program

Addendum

Reason: Reprinted by individual sample

**Order ID** 091020009 **Program, Contact:** ESP Tim Rielly

**Report Date:** 11/05/2009 **LDPR/JobCode:** FELZB

**Order Comment:**

**Sample:** AB08245

**Customer #:** 0932073

**Facility ID:**
**County:**
**Site:** Lake of the Ozark Baseline Survey
**Sample Reference ID:**
**Collector:** SCOTT ROBINETT **Affiliation:** ESP **Collect Date:** 10/19/2009 9:45:00AM
**Sample Comment:** Duplicate of 0932076

| Test | Parameter | Result | Qualifier | Units | QC Batch ID | Method |
|---|---|---|---|---|---|---|
| 507/508 | Alachlor | <0.25 | ND,06 | ug/L | 1,765 | 507/508 |
| 507/508 | Aldrin | <0.1 | ND,06 | ug/L | 1,765 | 507/508 |
| 507/508 | Arochlor 1016 (PCB-1016) | <0.25 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Arochlor 1221 (PCB-1221) | <0.25 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Arochlor 1232 (PCB-1232) | <0.25 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Arochlor 1242 (PCB-1242) | <0.25 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Arochlor 1248 (PCB-1248) | <0.25 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Arochlor 1254 (PCB-1254) | <0.25 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Arochlor 1260 (PCB-1260) | <0.25 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Atrazine | 0.42 | 05 | ug/L | 1,765 | 507/508 |
| 507/508 | Butachlor | <0.25 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Chlordane | <1 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Cyanazine | <0.25 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Dieldrin | <0.1 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Endrin | <0.1 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | gamma-BHC (Lindane) | <0.1 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Heptachlor | <0.1 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Heptachlor Epoxide | <0.1 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Hexachlorobenzene | <0.1 | ND,06 | ug/L | 1,765 | 507/508 |
| 507/508 | Hexachlorocyclopentadiene | <0.1 | ND,06 | ug/L | 1,765 | 507/508 |
| 507/508 | Methoxychlor | <0.1 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Metolachlor | <0.25 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Metribuzin | <0.25 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Propachlor | <0.25 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Simazine | <0.25 | ND | ug/L | 1,765 | 507/508 |
| 507/508 | Toxaphene | <1 | ND | ug/L | 1,765 | 507/508 |

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**Sample Comment:** Duplicate of 0932076

**Site:** Lake of the Ozark Baseline Survey
**Sample Reference ID:**
**Affiliation:** ESP
**Collect Date:** 10/19/2009 9:45:00AM

| Test | Parameter | Result | Qualifier | Units | QC Batch ID | Method |
|---|---|---|---|---|---|---|
| 507/508 | Trifluralin | <1 | ND,06 | ug/L | 1,765 | 507/508 |
| Chloride | Chloride | 4.65 | 05 | mg/L | 1,830 | SM 4500-Cl-E |
| E. coli | E. coli | 18.7 | | mpn/100ml | | SM 9223B |
| Field Dissolved Oxygen | Field Dissolved Oxygen | 7.42 | | mg/L | | SM 4500-O-G |
| Field pH | Field pH | 7.78 | | pH Units | | EPA 150.1 |
| Field Specific Conductivity | Field Specific Conductivity | 237 uS/cm | | | | SM 2510 |
| Field Temperature | Field Temperature | 14.6 C | | | | EPA 170.1 |
| Non-Filterable Residue | Non-Filterable Residue | 8.00 | | mg/L | 1,749 | SM 2540-D |
| Petroleum Fractions | TPH as Gasoline | <500 | ND,06 | ug/L | 1,828 | OA-2 |
| Petroleum Fractions | TPH as Hydraulic Fluid | <500 | ND | ug/L | 1,828 | OA-2 |
| Petroleum Fractions | TPH as Jet Fuel | <500 | ND | ug/L | 1,828 | OA-2 |
| Petroleum Fractions | TPH as JP4 | <500 | ND | ug/L | 1,828 | OA-2 |
| Petroleum Fractions | TPH as Kerosene | <500 | ND | ug/L | 1,828 | OA-2 |
| Petroleum Fractions | TPH as Mineral Spirits | <500 | ND | ug/L | 1,828 | OA-2 |
| Petroleum Fractions | TPH as No. 1 Diesel | <500 | ND | ug/L | 1,828 | OA-2 |
| Petroleum Fractions | TPH as No. 2 Diesel | <500 | ND | ug/L | 1,828 | OA-2 |
| Petroleum Fractions | TPH as No. 3 Diesel | <500 | ND | ug/L | 1,828 | OA-2 |
| Petroleum Fractions | TPH as No. 4 Diesel | <500 | ND | ug/L | 1,828 | OA-2 |
| Petroleum Fractions | TPH as No. 5 Diesel | <500 | ND | ug/L | 1,828 | OA-2 |
| Petroleum Fractions | TPH as No. 6 Diesel | <500 | ND | ug/L | 1,828 | OA-2 |
| Petroleum Fractions | TPH as Waste Oil | <500 | ND | ug/L | 1,828 | OA-2 |
| Total Alkalinity as CaCO3 | Total Alkalinity as CaCO3 | 88.6 | | mg/L | 1,821 | SM 2320 B |
| Total Nitrogen | Total Nitrogen | 0.59 | | mg/L | 1,782 | I-2650-03 |
| Total Phosphorus | Total Phosphorus | 0.06 | | mg/L | 1,774 | L 10-115-01-1-C |
| Turbidity-WQMS | Turbidity-WQMS | 10.7 | | NTU | | EPA 180.1 |
| VOAs | 1,1,1,2-Tetrachloroethane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,1,1-Trichloroethane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,1,2,2-Tetrachloroethane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,1,2-Trichloroethane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,1-Dichloroethane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,1-Dichloroethene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,1-Dichloropropanone | <1 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,1-Dichloropropene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,2,3-Trichlorobenzene | <2.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,2,3-Trichloropropane | <0.5 | ND | ug/L | 1,689 | 8260B |

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**Sample Reference ID:**
**Affiliation:** ESP
**Collect Date:** 10/19/2009 9:45:00AM

| Test | Parameter | Result | Qualifier | Units | QC Batch ID | Method |
|---|---|---|---|---|---|---|
| VOAs | 1,2,4-Trichlorobenzene | <2.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,2,4-Trimethylbenzene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,2-Dibromo-3-chloropropane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,2-Dibromoethane (EDB) | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,2-Dichlorobenzene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,2-Dichloroethane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,2-Dichloropropane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,3,5-Trimethylbenzene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,3-Dichlorobenzene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,3-Dichloropropane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1,4-Dichlorobenzene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 1-Chorobutane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 2,2-Dichloropropane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 2-Butanone (MEK) | <2.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 2-Chlorotoluene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 2-Hexanone | <1 | ND | ug/L | 1,689 | 8260B |
| VOAs | 2-Nitropropane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 4-Chlorotoluene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | 4-Methyl-2-pentanone(MIBK) | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | acetone | <10 | ND | ug/L | 1,689 | 8260B |
| VOAs | Acrylonitrile | <1 | ND | ug/L | 1,689 | 8260B |
| VOAs | Allyl Chloride | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Benzene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Bromobenzene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Bromochloromethane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Bromodichloromethane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Bromoform | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Bromomethane | <2.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | carbon disulfide | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Carbon Tetrachloride | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Chloroacetonitrile | <12.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Chlorobenzene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Chloroethane | <2.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Chloroform | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Chloromethane | <12.5 | ND | ug/L | 1,689 | 8260B |

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|---|---|---|---|---|---|---|
| VOAs | cis-1,2-dichloroethene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | cis-1,3-Dichloropropene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Dibromochloromethane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Dibromomethane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Dichlorodifluoromethane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Diethyl ether | <10 | ND | ug/L | 1,689 | 8260B |
| VOAs | Ethylbenzene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Ethylmethacrylate | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Hexachlorobutadiene | <1 | ND | ug/L | 1,689 | 8260B |
| VOAs | Hexachloroethane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Iodomethane | <2.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Isopropylbenzene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | m&p-Xylenes | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Methacrylonitrile | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Methyl Acrylate | <5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Methylene chloride | <10 | ND | ug/L | 1,689 | 8260B |
| VOAs | Methylmethacrylate | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Methyl-t-butyl ether | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Naphthalene | <2.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | n-Butylbenzene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Nitrobenzene | <5 | ND | ug/L | 1,689 | 8260B |
| VOAs | n-Propylbenzene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | o-Xylene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Pentachloroethane | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | p-isopropyltoluene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Propionitrile | <10 | ND | ug/L | 1,689 | 8260B |
| VOAs | sec-Butylbenzene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Styrene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | tert-Butylbenzene | <1 | ND | ug/L | 1,689 | 8260B |
| VOAs | Tetrachloroethene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Tetrahydrofuran | <2.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Toluene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Total Xylenes | <1 | ND | ug/L | 1,689 | 8260B |
| VOAs | trans-1,2-Dichloroethene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | trans-1,3-Dichloropropene | <0.5 | ND | ug/L | 1,689 | 8260B |

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| Test | Parameter | Result | Qualifier | Units | QC Batch ID | Method |
|---|---|---|---|---|---|---|
| VOAs | trans-1,4-Dichloro-2-butene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Trichloroethene | <0.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Trichlorofluoromethane | <2.5 | ND | ug/L | 1,689 | 8260B |
| VOAs | Vinyl Chloride | <0.5 | ND | ug/L | 1,689 | 8260B |

**The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S Environmental Protection Agency.**

**Qualifier Descriptions**

01 Improper collection method
02 Improper preservation
03 Exceeded holding time
04 Analyzed by Contract Laboratory
05 Estimated value, detected below PQL
06 Estimated value, QC data outside limits
07 Estimated value, analyte outside calibration range
08 Analyte present in blank at > 1/2 reported value
09 Sample was diluted during analysis
10 Laboratory error
11 Estimated value, matrix interference
12 Insufficient quantity
13 Estimated value, true result is > reported value
14 Estimated value, non-homogeneous sample
15 No Result - Failed Quality Controls Requirements
16 Not analyzed - related analyte not detected
17 Results in dry weight
18 Sample pH is outside the acceptable range
19 Estimated value
20 Not analyzed - Instrument failure
21 No result - spectral interference
22 pH was performed at the Laboratory
ND Not detected at reported value

Chris Boldt, Laboratory Manager
Environmental Services Program
Field Services Division