Addendum

Missouri Department of Natural Resources
Environmental Services Program

Addendum

Reason: Reprinted by individual sample

Order ID 091016013 **Program, Contact:** ESP Tim Rielly

Report Date: 11/03/2009 **LDPR/JobCode:** FELZB / NPLOZBL1

Order Comment:

Sample: AB08117
Customer #: 0932020

Facility ID:
County:
Site: LAKE OF THE OZARKS BASELINE SURVEY
Sample Reference ID:
Collector: LARRY LEHMAN **Affiliation:** ESP **Collect Date:** 10/16/2009 11:05:00AM
Sample Comment: M-09 B

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
507/508	Alachlor	<0.25	ND,06	ug/L	1,687	507/508
507/508	Aldrin	<0.1	ND,06	ug/L	1,687	507/508
507/508	Arochlor 1016 (PCB-1016)	<0.25	ND	ug/L	1,687	507/508
507/508	Arochlor 1221 (PCB-1221)	<0.25	ND	ug/L	1,687	507/508
507/508	Arochlor 1232 (PCB-1232)	<0.25	ND	ug/L	1,687	507/508
507/508	Arochlor 1242 (PCB-1242)	<0.25	ND	ug/L	1,687	507/508
507/508	Arochlor 1248 (PCB-1248)	<0.25	ND	ug/L	1,687	507/508
507/508	Arochlor 1254 (PCB-1254)	<0.25	ND	ug/L	1,687	507/508
507/508	Arochlor 1260 (PCB-1260)	<0.25	ND	ug/L	1,687	507/508
507/508	Atrazine	0.38	05	ug/L	1,687	507/508
507/508	Butachlor	<0.25	ND	ug/L	1,687	507/508
507/508	Chlordane	<1	ND	ug/L	1,687	507/508
507/508	Cyanazine	<0.25	ND	ug/L	1,687	507/508
507/508	Dieldrin	<0.1	ND	ug/L	1,687	507/508
507/508	Endrin	<0.1	ND	ug/L	1,687	507/508
507/508	gamma-BHC (Lindane)	<0.1	ND	ug/L	1,687	507/508
507/508	Heptachlor	<0.1	ND,06	ug/L	1,687	507/508
507/508	Heptachlor Epoxide	<0.1	ND	ug/L	1,687	507/508
507/508	Hexachlorobenzene	<0.1	ND,06	ug/L	1,687	507/508
507/508	Hexachlorocyclopentadiene	<0.1	ND,06	ug/L	1,687	507/508
507/508	Methoxychlor	<0.1	ND	ug/L	1,687	507/508
507/508	Metolachlor	<0.25	ND,06	ug/L	1,687	507/508
507/508	Metribuzin	<0.25	ND	ug/L	1,687	507/508
507/508	Propachlor	<0.25	ND,06	ug/L	1,687	507/508
507/508	Simazine	<0.25	ND	ug/L	1,687	507/508
507/508	Toxaphene	<1	ND	ug/L	1,687	507/508

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Affiliation: ESP
Collect Date: 10/16/2009 11:05:00AM

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
507/508	Trifluralin	<1	ND,06	ug/L	1,687	507/508
Chloride	Chloride	5.10		mg/L	1,709	SM 4500-Cl-E
E. coli	E. coli	17.3		mpn/100ml		SM 9223B
Field Dissolved Oxygen	Field Dissolved Oxygen	6.89		mg/L		SM 4500-O-G
Field pH	Field pH	7.88		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	243 uS.cm				SM 2510
Field Temperature	Field Temperature	17.0 C				EPA 170.1
Non-Filterable Residue	Non-Filterable Residue	<5	ND	mg/L	1,662	SM 2540-D
Petroleum Fractions	TPH as Gasoline	<500	ND	ug/L	1,690	OA-2
Petroleum Fractions	TPH as Hydraulic Fluid	<500	ND	ug/L	1,690	OA-2
Petroleum Fractions	TPH as Jet Fuel	<500	ND	ug/L	1,690	OA-2
Petroleum Fractions	TPH as JP4	<500	ND	ug/L	1,690	OA-2
Petroleum Fractions	TPH as Kerosene	<500	ND	ug/L	1,690	OA-2
Petroleum Fractions	TPH as Mineral Spirits	<500	ND	ug/L	1,690	OA-2
Petroleum Fractions	TPH as No. 1 Diesel	<500	ND	ug/L	1,690	OA-2
Petroleum Fractions	TPH as No. 2 Diesel	<500	ND	ug/L	1,690	OA-2
Petroleum Fractions	TPH as No. 3 Diesel	<500	ND	ug/L	1,690	OA-2
Petroleum Fractions	TPH as No. 4 Diesel	<500	ND	ug/L	1,690	OA-2
Petroleum Fractions	TPH as No. 5 Diesel	<500	ND	ug/L	1,690	OA-2
Petroleum Fractions	TPH as No. 6 Diesel	<500	ND	ug/L	1,690	OA-2
Petroleum Fractions	TPH as Waste Oil	<500	ND	ug/L	1,690	OA-2
Total Alkalinity as CaCO3	Total Alkalinity as CaCO3	95.5		mg/L	1,808	SM 2320 B
Total Nitrogen	Total Nitrogen	0.51		mg/L	1,740	I-2650-03
Total Phosphorus	Total Phosphorus	0.05		mg/L	1,774	L 10-115-01-1-C
Turbidity-WQMS	Turbidity-WQMS	5.74		NTU		EPA 180.1
VOAs	1,1,1,2-Tetrachloroethane	<0.5	ND	ug/L	1,688	8260B
VOAs	1,1,1-Trichloroethane	<0.5	ND	ug/L	1,688	8260B
VOAs	1,1,2,2-Tetrachloroethane	<0.5	ND	ug/L	1,688	8260B
VOAs	1,1,2-Trichloroethane	<0.5	ND	ug/L	1,688	8260B
VOAs	1,1-Dichloroethane	<0.5	ND	ug/L	1,688	8260B
VOAs	1,1-Dichloroethene	<0.5	ND	ug/L	1,688	8260B
VOAs	1,1-Dichloropropanone	<1	ND	ug/L	1,688	8260B
VOAs	1,1-Dichloropropene	<0.5	ND	ug/L	1,688	8260B
VOAs	1,2,3-Trichlorobenzene	<2.5	ND	ug/L	1,688	8260B
VOAs	1,2,3-Trichloropropane	<0.5	ND	ug/L	1,688	8260B

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VOAs	1,2,4-Trichlorobenzene	<2.5	ND	ug/L	1,688	8260B
VOAs	1,2,4-Trimethylbenzene	<0.5	ND	ug/L	1,688	8260B
VOAs	1,2-Dibromo-3-chloropropane	<0.5	ND	ug/L	1,688	8260B
VOAs	1,2-Dibromoethane (EDB)	<0.5	ND	ug/L	1,688	8260B
VOAs	1,2-Dichlorobenzene	<0.5	ND	ug/L	1,688	8260B
VOAs	1,2-Dichloroethane	<0.5	ND	ug/L	1,688	8260B
VOAs	1,2-Dichloropropane	<0.5	ND	ug/L	1,688	8260B
VOAs	1,3,5-Trimethylbenzene	<0.5	ND	ug/L	1,688	8260B
VOAs	1,3-Dichlorobenzene	<0.5	ND	ug/L	1,688	8260B
VOAs	1,3-Dichloropropane	<0.5	ND	ug/L	1,688	8260B
VOAs	1,4-Dichlorobenzene	<0.5	ND	ug/L	1,688	8260B
VOAs	1-Chorobutane	<0.5	ND	ug/L	1,688	8260B
VOAs	2,2-Dichloropropane	<0.5	ND	ug/L	1,688	8260B
VOAs	2-Butanone (MEK)	<2.5	ND	ug/L	1,688	8260B
VOAs	2-Chlorotoluene	<0.5	ND	ug/L	1,688	8260B
VOAs	2-Hexanone	<1	ND	ug/L	1,688	8260B
VOAs	2-Nitropropane	<0.5	ND	ug/L	1,688	8260B
VOAs	4-Chlorotoluene	<0.5	ND	ug/L	1,688	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	<0.5	ND	ug/L	1,688	8260B
VOAs	acetone	<10	ND	ug/L	1,688	8260B
VOAs	Acrylonitrile	<1	ND	ug/L	1,688	8260B
VOAs	Allyl Chloride	<0.5	ND	ug/L	1,688	8260B
VOAs	Benzene	<0.5	ND	ug/L	1,688	8260B
VOAs	Bromobenzene	<0.5	ND	ug/L	1,688	8260B
VOAs	Bromochloromethane	<0.5	ND	ug/L	1,688	8260B
VOAs	Bromodichloromethane	<0.5	ND	ug/L	1,688	8260B
VOAs	Bromoform	<0.5	ND	ug/L	1,688	8260B
VOAs	Bromomethane	<2.5	ND	ug/L	1,688	8260B
VOAs	carbon disulfide	<0.5	ND	ug/L	1,688	8260B
VOAs	Carbon Tetrachloride	<0.5	ND	ug/L	1,688	8260B
VOAs	Chloroacetonitrile	<12.5	ND	ug/L	1,688	8260B
VOAs	Chlorobenzene	<0.5	ND	ug/L	1,688	8260B
VOAs	Chloroethane	<2.5	ND	ug/L	1,688	8260B
VOAs	Chloroform	<0.5	ND	ug/L	1,688	8260B
VOAs	Chloromethane	<12.5	ND	ug/L	1,688	8260B

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Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
VOAs	cis-1,2-dichloroethene	<0.5	ND	ug/L	1,688	8260B
VOAs	cis-1,3-Dichloropropene	<0.5	ND	ug/L	1,688	8260B
VOAs	Dibromochloromethane	<0.5	ND	ug/L	1,688	8260B
VOAs	Dibromomethane	<0.5	ND	ug/L	1,688	8260B
VOAs	Dichlorodifluoromethane	<0.5	ND	ug/L	1,688	8260B
VOAs	Diethyl ether	<10	ND	ug/L	1,688	8260B
VOAs	Ethylbenzene	<0.5	ND	ug/L	1,688	8260B
VOAs	Ethylmethacrylate	<0.5	ND	ug/L	1,688	8260B
VOAs	Hexachlorobutadiene	<1	ND	ug/L	1,688	8260B
VOAs	Hexachloroethane	<0.5	ND	ug/L	1,688	8260B
VOAs	Iodomethane	<2.5	ND	ug/L	1,688	8260B
VOAs	Isopropylbenzene	<0.5	ND	ug/L	1,688	8260B
VOAs	m&p-Xylenes	<0.5	ND	ug/L	1,688	8260B
VOAs	Methacrylonitrile	<0.5	ND	ug/L	1,688	8260B
VOAs	Methyl Acrylate	<5	ND	ug/L	1,688	8260B
VOAs	Methylene chloride	<10	ND	ug/L	1,688	8260B
VOAs	Methylmethacrylate	<0.5	ND	ug/L	1,688	8260B
VOAs	Methyl-t-butyl ether	<0.5	ND	ug/L	1,688	8260B
VOAs	Naphthalene	<2.5	ND	ug/L	1,688	8260B
VOAs	n-Butylbenzene	<0.5	ND	ug/L	1,688	8260B
VOAs	Nitrobenzene	<5	ND	ug/L	1,688	8260B
VOAs	n-Propylbenzene	<0.5	ND	ug/L	1,688	8260B
VOAs	o-Xylene	<0.5	ND	ug/L	1,688	8260B
VOAs	Pentachloroethane	<0.5	ND	ug/L	1,688	8260B
VOAs	p-isopropyltoluene	<0.5	ND	ug/L	1,688	8260B
VOAs	Propionitrile	<10	ND	ug/L	1,688	8260B
VOAs	sec-Butylbenzene	<0.5	ND	ug/L	1,688	8260B
VOAs	Styrene	<0.5	ND	ug/L	1,688	8260B
VOAs	tert-Butylbenzene	<1	ND	ug/L	1,688	8260B
VOAs	Tetrachloroethene	<0.5	ND	ug/L	1,688	8260B
VOAs	Tetrahydrofuran	<2.5	ND	ug/L	1,688	8260B
VOAs	Toluene	<0.5	ND	ug/L	1,688	8260B
VOAs	Total Xylenes	<1	ND	ug/L	1,688	8260B
VOAs	trans-1,2-Dichloroethene	<0.5	ND	ug/L	1,688	8260B
VOAs	trans-1,3-Dichloropropene	<0.5	ND	ug/L	1,688	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	1,688	8260B
VOAs	Trichloroethene	<0.5	ND	ug/L	1,688	8260B
VOAs	Trichlorofluoromethane	<2.5	ND	ug/L	1,688	8260B
VOAs	Vinyl Chloride	<0.5	ND	ug/L	1,688	8260B

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

Chris Boldt

Chris Boldt, Laboratory Manager
Environmental Services Program
Field Services Division

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