Mid-Atlantic
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Analytical Report

Project Name: Riverside Avenue Site

MAEL Job Number: 36612

Client: KEMRON Environmental Services
1359-A Ellsworth Industrial Boulevard
Atlanta, GA 30318

Contact Name: Janelle Murphy

Date Received: 01/31/2012

Date Reported: 2/7/2012

Analytical test results for methods listed on the laboratory's scope of accreditation meet all requirements of NELAC unless otherwise noted. All sample holding times and preservation requirements were met unless otherwise noted. Test results relate only to the sample tested. This report shall not be reproduced, except in full, without prior written authorization of Mid-Atlantic Environmental Laboratories, Inc.

238036

ANALYTICAL REPORT

Project Name: Riverside Avenue Site

Lab Project #: 36612

Lab Sample #: 36612-1

Client Sample ID: AST- Composite 3rd flr- 17, 18, 19

Date Sampled: 1/31/2012 8:45 AM

Sampled By: FR

Sample Matrix: Unknown Liquid

Sample Type: Composite

Analyte	CASRN	Result	Q	Units	Method	PQL	Analyst	Date / Time Analysis
Diesel Range Organics - Aqueous								
Diesel Range Organics	- - - - -	ND		ug/L	8015B	500	C R	2/7/2012 8:20 AM
Gasoline Range Organics - Aqueous								
Gasoline Range Organics	- - - - -	2890		ug/L	8015B	500	C R	2/2/2012 1:03 PM
Heat of Combustion.								
Heat of Combustion	BTU	No		Y/N	ASTM D240		S UB	2/3/2012 10:00 AM
Ignitability (Flashpoint)								
Ignitability		>110		o C	1010A		R B	2/2/2012 9:00 AM
PCBs - Aqueous								
PCB-1016	12674-11-2	ND		ug/L	8082	0.50	C R	2/7/2012 10:21 AM
PCB-1221	11104-28-2	ND		ug/L	8082	0.50	C R	2/7/2012 10:21 AM
PCB-1232	11141-16-5	ND		ug/L	8082	0.50	C R	2/7/2012 10:21 AM
PCB-1242	53469-21-9	ND		ug/L	8082	0.50	C R	2/7/2012 10:21 AM
PCB-1248	12672-29-6	ND		ug/L	8082	0.50	C R	2/7/2012 10:21 AM
PCB-1254	11097-69-1	ND		ug/L	8082	0.50	C R	2/7/2012 10:21 AM
PCB-1260	11096-82-5	ND		ug/L	8082	0.50	C R	2/7/2012 10:21 AM
pH - Aqueous								
pH	- - - - -	6.36		S.U.	SM 4500-H B		R B	2/2/2012 2:45 PM
Reactive Cyanide								
Reactive Cyanide	57-12-5	ND		mg/kg	7.3.3.2	0.20	R B	2/3/2012 2:50 PM
Reactive Sulfide								
Reactive Sulfide	18496-25-8	ND		mg/kg	7.3.4.2	0.20	R B	2/3/2012 4:34 PM
TCLP Mercury								
Mercury	7439-97-6	ND		mg/L	1311/245.1	0.001	N H	2/6/2012 2:24 PM
TCLP Metals								
Arsenic	7440-38-2	ND		mg/L	1311/6010B	0.05	N H	2/6/2012 1:32 PM
Barium	7440-39-3	ND		mg/L	1311/6010B	0.05	N H	2/6/2012 1:32 PM
Cadmium	7440-43-9	ND		mg/L	1311/6010B	0.05	N H	2/6/2012 1:32 PM
Chromium	7440-47-3	ND		mg/L	1311/6010B	0.05	N H	2/6/2012 1:32 PM

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Sample Matrix: Unknown Liquid

Sample Type: Composite

Analyte	CASRN	Result	Q	Units	Method	PQL	Analyst	Date / Time Analysis
TCLP Metals								
Lead	7439-92-1	ND		mg/L	1311/6010B	0.05	N H	2/6/2012 1:32 PM
Selenium	7782-49-2	ND		mg/L	1311/6010B	0.05	N H	2/6/2012 1:32 PM
Silver	7440-22-4	ND		mg/L	1311/6010B	0.05	N H	2/6/2012 1:32 PM
TCLP Semivolatiles								
1,4-Dichlorobenzene	106-46-7	ND		mg/L	1311/8270C	0.10	I R	2/2/2012 11:14 AM
2,4-Dinitrotoluene	121-14-2	ND		mg/L	1311/8270C	0.10	I R	2/2/2012 11:14 AM
Hexachlorobenzene	118-74-1	ND		mg/L	1311/8270C	0.10	I R	2/2/2012 11:14 AM
Hexachlorobutadiene	87-68-3	ND		mg/L	1311/8270C	0.10	I R	2/2/2012 11:14 AM
Hexachloroethane	67-72-1	ND		mg/L	1311/8270C	0.10	I R	2/2/2012 11:14 AM
2-Methylphenol	95-48-7	ND		mg/L	1311/8270C	0.10	I R	2/2/2012 11:14 AM
3- & 4- Methylphenol	61379-65-5	ND		mg/L	1311/8270C	0.10	I R	2/2/2012 11:14 AM
Nitrobenzene	98-95-3	ND		mg/L	1311/8270C	0.10	I R	2/2/2012 11:14 AM
Pentachlorophenol	87-86-5	ND		mg/L	1311/8270C	0.10	I R	2/2/2012 11:14 AM
Pyridine	110-86-1	ND		mg/L	1311/8270C	0.10	I R	2/2/2012 11:14 AM
2,4,5-Trichlorophenol	95-95-4	ND		mg/L	1311/8270C	0.10	I R	2/2/2012 11:14 AM
2,4,6-Trichlorophenol	88-06-2	ND		mg/L	1311/8270C	0.10	I R	2/2/2012 11:14 AM
TCLP Volatiles								
Benzene	71-43-2	ND		mg/L	1311/8260B	0.02	I R	2/1/2012 1:02 AM
Carbon Tetrachloride	56-23-5	ND		mg/L	1311/8260B	0.02	I R	2/1/2012 1:02 AM
Chlorobenzene	108-90-7	ND		mg/L	1311/8260B	0.02	I R	2/1/2012 1:02 AM
Chloroform	67-66-3	ND		mg/L	1311/8260B	0.02	I R	2/1/2012 1:02 AM
1,2-Dichloroethane	107-06-2	ND		mg/L	1311/8260B	0.02	I R	2/1/2012 1:02 AM
1,1-Dichloroethene	75-35-4	ND		mg/L	1311/8260B	0.02	I R	2/1/2012 1:02 AM
Methyl Ethyl Ketone (MEK)	78-93-3	ND		mg/L	1311/8260B	0.10	I R	2/1/2012 1:02 AM
Tetrachloroethene (PCE)	127-18-4	ND		mg/L	1311/8260B	0.02	I R	2/1/2012 1:02 AM
Trichloroethene (TCE)	79-01-6	ND		mg/L	1311/8260B	0.02	I R	2/1/2012 1:02 AM
Vinyl Chloride	75-01-4	ND		mg/L	1311/8260B	0.02	I R	2/1/2012 1:02 AM

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Sample Type: Composite

Akhter Mehmood
Lab Director

Wayne Wells II
QAQC Director

ANALYTICAL REPORT

Methodology

All analyses are adapted from one or more of the following reference methods:

"Guidelines Establishing Test Procedures for the Analysis of Pollutants"' Code of Federal Regulations, Vol. 40, Part 136
"Test Methods for Evaluating Solid Waste", SW846 Third Edition, September 1986, USEPA.
Code of Federal Regulations Vol. 40, Part 261, "Appendix II Method 1311 Toxicity Characteristic Leaching Procedure."
Standard Methods for the Examination of Water and Wastewater", 21st edition
"Methods for the Chemical Analysis of Water and Wastes", EPA600/4-79-020, March 1983, U.S. EPA, EMSL
"Annual Book of Standards, Section 11-Water", American Society for Testing and Materials (ASTM)
"Methods for the Determination of Organic Compounds in Drinking Water", EPA 600/4-88/039, December 1988

Qualifiers

B	Detected in method blank	E	Detected above calibration limits, result estimated
H	Parameter run out of hold time	J	Detected below PQL, result estimated
P	Incorrect Preservative	R	See report notes
SUB	Sub-Contracted to Certified Lab	N	Not NELAC certified for parameter

U Compound not detected above method practical quantitation limit.

Abbreviations

ppm	Parts Per Million (mg/kg or mg/L)	PQL	Practical Quantitation Level
ppb	Parts Per Billion (ug/kg or ug/L)	attached	Subcontract Lab Report Attached
g	gram (1000 g = 1Kg)	>	Greater than the PQL
kg	kilogram (1 kg - 1000 g)	<	Less than the PQL
mg	milligram (1000 mg = 1 g)	ND	Not Detected
mg/kg	milligram per kilogram (ppm)	NA	Not Applicable
ug/kg	microgram per kilogram (ppb)	NS	Not Spiked
ug	microgram (1000 ug = 1 mg)	NP	No PCB pattern detected
L	liter (1 L - 1000 mL)	NR	Not Requested
ml	milliliter (1000 ml = 1 L)	NI	Not Ignitable
ul	microliter (1000 ul = 1 ml)	NFL	No Free Liquid
mg/L	milligram per liter (ppm)	NTU	Nephelometric Turbidity Units
ug/L	microgram per liter (ppb)	S.U.	Standard Unit
ng/kg	nanogram per kilogram	RPD	Relative Percent Difference
BTU/lb	British Thermal Units per pound	RSD	Relative Standard Deviation
CFU/mL	Colony Forming Units per milliliter	MS/MSD	Matrix Spike/Matrix Spike Duplicate
MPN/100 ml	Most Probable Number per 100 mL	LCS	Laboratory Control Sample
mS/cm	milli Siemans per centimeter	BS	Blank Spike (Method Spike)
uS/cm	micro Siemans per centimeter	o F	degrees Fahrenheit
ug/sq cm	microgram per square centimeter	o C	degrees Celsius
ug/sq ft	microgram per square feet	umhos	Conductivity Units
ug/wipe	microgram per wipe	ohms	Resistivity Units

Note: All non-aqueous samples, with the exception of oils, wipes, and paint chips are dry weight corrected
PQL-The Practical Quantitation Limit (PQL) is the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

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CHAIN OF CUSTODY

Lab Use Only
Job # 36612

Client Name: KEMRON Environmental Services, Inc.	Invoice To: KEMRON	**Sample On Ice** ☐ Yes ☒ No	**Data Format Requested**	**Report Format**
Address: 1359-A Ellsworth Industrial Boulevard	Purchase Order #: SE1838-500	**Sample Disposal** ☐ Client ☒ MAEL	☐ Results Only ☒ QC Package ☐ NJRDD + Hazsite ☐ NJFDD + Hazsite ☐ MDE ☐ Excel Summary	☐ Fax ☒ E-mail PDF ☐ Portal Posting Only
	Project Name: Riverside Avenue Site	**Site Location** ☒ NJ ☐ PA ☐ DE ☐ MD ☐ Other		
City, State, Zip: Atlanta, GA 30318	Bottle Order # Quote #			

Contact Name: Janelle Murphy	**Regulatory Program**	**Turn Around Time**
Phone # 404-808-3769	☐ DERBCAP ☐ PA UST ☐ PA Clean Fill ☐ PA ACT II ☐ NJGWQC ☐ NJ SRP ☐ NJ UST ☐ MDE ☐ Site Specific ☐ Non regulatory ☒ Other (Specify): RCRA/CERCLA	☐ <24 Hours (Same Day) ☐ 24 Hours (Next Day) ☐ 48 Hours (2 Days) ☐ 72 Hours (3 Days) ☐ 96 Hours (4 Days) ☒ Standard (1 Week) ☐ 2 Weeks ☐ Other – Specify
Fax # 404-636-7162		
E-mail: jmurphy@kemron.com		
Remarks: Refer to IFB SE1838-001 Package for Method References	Failure to include regulatory program may result in PQLs incompatible to regulatory limit. If not specified, assumed to be non-regulatory.	

Laboratory Sample #	Client Sample ID	Sampling Info Date	Sampling Info Time	AM PM	Sampled By:	Sample Type Grab	Sample Type Comp	Matrix	# Cntrs	TCLP VOC/TCLP SVOC	TCLP Metals	TCL VOC/TCL SVOC	TPH/GRO/DRO	Reactivity	Corrosivity/Ignitability	Paint Filter	PCB/BTU		
36612-1	AST- Composite 3rd flr-17,18,19	1/31/12	8:45	am	FR		X	liquid	2	☒	☒	☐	☒	☒	☒	☐	☒	☐	☐
										☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
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										☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Bottles Supplied By MAEL? (Yes) No | Logged By: [signature] 2-1-12 | QA Reviewed: [signature] 2/2/12 | Page 1 of 1

Relinquished By: Frank Rodriguez	Date: 1/31/12	Time: 11:25am	Received By: Josh Walls	Date: 1/31/12	Time: 11:25AM
Relinquished By: Josh Walls	Date: 1/31/12	Time: 14:25	Received By: [signature]	Date: 1/31/12	Time: 14:25

All samples are disposed 30 days after receipt unless otherwise requested. By signing this Chain of Custody Agreement, customer expressly agrees to pay Mid-Atlantic Environmental Laboratories, Inc. for all changes reasonably incurred in connection with analysis and reporting of these samples

Sample Temperature	
Temp as Read	
Temp Corrected	

MDE Certified DE NJ

NJ - 02003 nelac PA - 68-00566

DE certification · MD certification