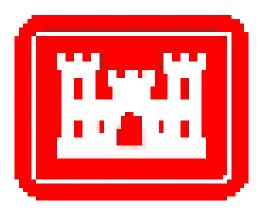
GROUNDWATER SAMPLING REPORT FOR IRRIGATION SYSTEM AT GUILDERLAND CENTRAL SCHOOL FORMER SCHENECTADY ARMY DEPOT - VOORHEESVILLE AREA GUILDERLAND, NEW YORK

Prepared For:



U.S. ARMY CORPS OF ENGINEERS Contract No. W912DY-08-D-0003

Task Order No. 0007

Prepared By:



June 2010

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1.0 INTRODUCTION

This Groundwater Sampling Report has been prepared by Parsons for the U.S. Army Corps of Engineers (USACE) – New York District in compliance with the Contract No. W912DY-08-D-0003, Task Order No. 0007 with the USACE – Huntsville Center.

The purpose of this sampling effort is to monitor groundwater quality in the irrigation system at the Guilderland Junior/Senior High School. This sampling supplements the ongoing groundwater monitoring program at Area of Concern 3 (Former Burn Pits) at the Former Schenectady Army Depot – Voorheesville Area (SADVA).

This report presents the results of irrigation system sample IRR-01 conducted in April 2010.

AOC 3 is the designation given to a former burn pit area that was used for burning of wastes during Department of Defense operation of the SADVA. Department of Defense operation of SADVA began in 1941 and continued for a period of 28 years. The burn pit area was used to burn a multitude of depot waste materials in several small depressions. AOC 3 was less than 10 acres in size, and was located in the north end of the SADVA. SADVA was closed in 1969 and the property was subsequently sold. Since that time, the property has been used as an industrial park, and is now known as the Northeastern Industrial Park. In addition, the nearby Guilderland Central School District utilizes groundwater in the vicinity of AOC 3 for irrigation and lawn sprinkling purposes at the Junior/Senior High School athletic fields.

From the Fall of 2002 to the Spring of 2003, an interim removal action was completed within AOC 3. This removal action, performed by The Shaw Group, Inc. under USACE direction, consisted of the excavation and disposal of waste materials and impacted soils followed by restoration to grade. The removal action resulted in the excavation and off-site disposal of approximately 4,000 cubic yards of waste and impacted soils. As part of the investigations leading up to and during the interim removal action, several wells were installed within and around the AOC 3 area. These wells were utilized following completion of the excavation activities to monitor groundwater quality and site impacts.

In 2006, USACE agreed to conduct a single-well groundwater monitoring program to develop a data set for groundwater quality in the vicinity of a bus repair garage located within the Guilderland High School grounds. This well, MW-9 (Figure 1) was found to be impacted by volatile organic compounds during the previously completed AOC 3 groundwater monitoring program and is being monitored for five annual events to determine any applicable course of action.

The first of the five scheduled events was completed in June 2007, and the concentration of trichloroethene was 5.4 micrograms per liter (ug/l), slightly above the New York State Class GA groundwater standard of 5 ug/l. No other volatile organic compounds were detected in 2007.

Results for the June 2008 event can be summarized as follows:

• Trichloroethylene was detected at 5.5 ug/l, slightly above the New York State Class GA standard of 5 ug/l, and slightly above the 2007 concentration of 5.4 ug/l.

cis-1,2-Dichloroethene was the only other volatile organic compound detected, at a concentration of 1.1 ug/l, well below the New York State Class GA standard of 5 ug/l. cis-1,2-Dichloroethene is a breakdown product of trichloroethene.

Results for the June 2009 event can be summarized as follows:

- Trichloroethylene was detected at 5.4 ug/l, slightly above the New York State Class GA standard of 5 ug/l, and slightly below the 2008 concentration of 5.5 ug/l and the same as the 2007 concentration of 5.4 ug/l.
- cis-1,2-Dichloroethene was the only other volatile organic compound detected, at a concentration of 1.0 ug/l, well below the New York State Class GA standard of 5 ug/l. cis-1,2-Dichloroethene is a breakdown product of trichloroethene. The 2008 concentration of cis-1,2-dichloroethene was 1.1 ug/l. It was not detected in 2007.

Results for the April 2010 event can be summarized as follows:

- Trichloroethylene was detected at 6.9 ug/l, slightly above the New York State Class GA standard of 5 ug/l.
- cis-1,2-Dichloroethene was the only other volatile organic compound detected, at a concentration of 1.2 ug/l, well below the New York State Class GA standard of 5 ug/l.

To assess the presence of VOCs in the irrigation system at the Guilderland Central School, USACE requested that Parsons sample the irrigation groundwater supply.

The school irrigation system is supplied by groundwater from 5 wells; four (wells #2 - #5) are located on the north side of Black Creek (Figure 1) and another well (well #1) is located in the old bus garage. These wells are tied together by a water distribution system that carries water from the wells to a combined intake. That intake allows water to be pumped into a holding tank. Water in the holding tank is pumped out and onto the athletic fields as needed. A groundwater sample was collected from a spigot valve in the distribution system, just before the pipe enters the holding tank.

- Prior to sample collection, the wells 1, 3 and 5 were pumped for approximately one hour to purge the distribution system and to ensure fresh groundwater was collected.
- After the sample bottle was filled from the spigot valve, the sample was packaged, shipped overnight and delivered under Chain of Custody for analysis to a subcontract laboratory for volatile organic compounds, PCBs, total lead, pH, color, total coliforms, odor, turbidity, and total dissolved solids. These are the same analytical parameters as used for the ongoing sampling at AOC, plus PCBs and lead, which were contaminants of concern prior to the remediation at AOC 3.
- The samples were analyzed by Life Science Laboratories, Inc. in East Syracuse, NY. Life Sciences has certification under the Environmental Laboratory Approval Program by the State of New York Department of Health to perform the requested analyses.

A data usability report is provided in Appendix A, and the Life Science Laboratory report is provided in Appendix B.

4.0 RESULTS

4.1 Groundwater Quality

Results for the April 2010 sampling were validated by a Parsons chemist and found to be valid for their intended use (Appendix A). Results for pH, total dissolved solids, color, turbidity and odor were within the applicable New York State Class GA quality criteria, as follows:

- pH was 6.8; Class GA criterion is 6.0 to 8.0.
- Color was not detected (< 5 units); there is no Class GA criterion.
- Total dissolved solids were 380 milligrams per liter (mg/l); Class GA criterion is 1000 mg/l.
- Odor was < 1.0 units; Class GA criterion is 3 units.
- Turbidity was 6.9 nephelometric units; the Class GA criterion is 5 units.
- Total coliforms were not present in the sample.

4.2 Chemical Constituent Concentrations

The IRR-01 sample was analyzed for volatile organic compounds, PCBs and total lead. Results for the April 2010 event can be summarized as follows:

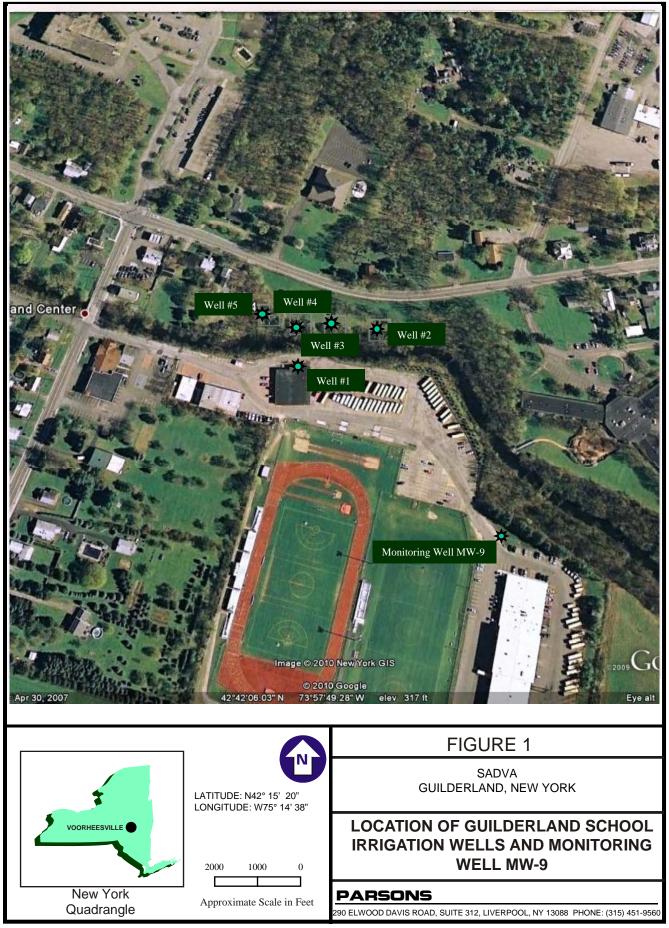
- Trichloroethylene was detected at 1.8 ug/l, below the New York State Class GA standard of 5 ug/l, and below the concentrations found in MW-9 (the 2010 concentration was 6.9 ug/l, the 2009 concentration was 5.4 ug/l, the 2008 concentration was 5.5 ug/l, and the same as the 2007 concentration was 5.4 ug/l).
- o PCBs were not detected.
- Lead was not detected.

4.3 Quality Control Results

Field Quality Control consisted of the submittal of a Trip Blank, which had no volatile organic compounds detected. The laboratory report, attached as Appendix B, was reviewed for data usability and the sample results meet all applicable criteria with regards to data quality necessary for project usability. The data usability report can be found in Appendix A. The results were found to be valid for their intended use.

- The concentration of trichloroethene is below the New York State Class GA standard.
- PCBs and lead were not detected.

FIGURE



P:\743440\GRAPHICS\VOORHEESVILLE.PPT

APPENDIX A

Data Usability Report

DATA QUALITY REVIEW REPORT Former Schenectady Army Depot AOC-3 Guilderland, New York

DATA QUALITY REVIEW AND ASSESSMENT

Data Quality Review Process

A Parsons Corporation project-specific data quality review was performed on 100% of the sample results and associated QA/QC data reported in the analytical report for Life Sciences Laboratory Project IDs 1006451 and 1006452, Parsons Project ID SADVA-Schenectady Depot. The data review results in this report are for one water sample and one trip blank collected from the Guilderland Central School irrigation well system by Parsons personnel. The samples were analyzed for the parameters listed in the Sample Summary Table. The data review pertained to the Method EPA 524.2 volatile organic compounds (VOCs), Method EPA 8082 polychlorinated biphenyls (PCBs), Method EPA 200.8 lead, and Method SM2540C total dissolved solids (TDS). The laboratory met all turnaround commitments; to meet the quick-turnaround requirement for VOCs, the laboratory issued report 1006451 on May 05, and issued the final (revised) report for all other sample results on May 21, 2010.

	Sample Summary Table											
Parsons Sample ID	Laboratory Sample ID	Sample Collection Date	Sample Matrix	Analyses Performed (as listed on Chain of Custody record)								
IRR-01	1006451-001	04/27/2010	Water	VOCs (EPA 524.2)								
IRR-01	1006452-002	04/27/2010	Water	PCBs (EPA 8082), TDS (SM18-2540C), Turbidity (EPA 180.1), Color (110.2) Odor (EPA 140.1), pH (SM21 4500-H B), Total Coliform								
IRR-01	K1004348-001A	04/27/2010	Water	Lead (EPA 200.8)								
Trip Blank TB-1	1006452-004	04/27/2010	Water	VOCs (EPA 524.2)								

All of the samples were properly preserved and analyzed within the holding time. The sample coolers were received with temperature of 3.6°C, which is within the acceptance range of 2-6 degrees Celsius. Chain-of-custody documentation was accurate and complete.

The data quality review consisted of manually examining the analytical data report to compare the laboratory QC sample results with the established laboratory QC limits, and with established USEPA sample preservation and analytical holding time requirements, in order to evaluate impacts, if any, on data quality and usability of the reported sample results. The data quality review addressed analytical data associated with the following: sample preservation and shipping cooler temperatures, analytical holding times, method blanks, trip blanks, surrogate spike recoveries, and laboratory control sample results.

The following sections describe the overall QA/QC indicators.

Volatile Organics in Water by EPA Method 524.2

Sample IRR-01 was analyzed on 04/30/2010, which is within the holding time. Evaluation results for specific QC samples results are as follows:

- Laboratory method blank: The method blank contained no reported analytes at concentrations above the reporting limit.
- Laboratory control sample (spike) (LCS): The LCS recoveries for all analytes were within project criteria.
- Surrogate compounds: All surrogate recoveries were within acceptance limits for samples and QC samples.
- Field QC: No VOCs were reported as detected in the trip blank.

PCBs in Water by EPA Method 8082

Sample IRR-01 was extracted on 05/03/10 and analyzed on 05/20/2010, which is within the holding time.

Evaluation results for specific QC samples results are as follows:

- Laboratory method blank: The method blank contained no reported analytes at concentrations above the method detection limit (MDL).
- Laboratory control sample (spike) (LCS): The LCS recoveries for all analytes were within project criteria.
- Surrogate compounds: All surrogate recoveries were within acceptance limits for samples and QC samples.

Lead in Water by EPA Method 200.8

Sample IRR-01 was digested on 04/29/10 and analyzed on 05/03/2010, which is within the holding time.

Evaluation results for specific QC samples results are as follows:

- Laboratory method blank: The method blank contained no lead at a concentration above the practical quantitation limit.
- Laboratory control sample (spike) (LCS): The LCS recovery for lead was within project criteria.

TDS in Water by Method SM21-2540C

Sample IRR-01 was analyzed on 04/29/2010, which is within the holding time.

Evaluation results for specific QC samples results are as follows:

• Laboratory method blank: The method blank contained no TDS at a concentration above the reporting limit.

Other Analytical Parameters

The laboratory report included the analysis results for color by method SM18-20 2120B, pH by method SM18-20 4500-HB, method EPA 180.1 turbidity, odor by method SM18-20 2150B, and total coliform by Readycult Method. However, no QC data was associated with sample results and QC review could not be performed on these data.

Data Quality Summary

Based on evaluation of the results of the data quality review, the overall quality control data for methods EPA 524.2 VOCs, EPA 8082 PCBs, EPA 200.8 lead, and SM21-2540C TDS provided in the laboratory report is representative of adequate method accuracy and representativeness with regard to project objectives. The reported data should be utilized, without reservation, in the intended project decision-making process.

APPENDIX B

Laboratory Analytical Report



George Moreau Parsons 301 Plainfield Rd. Suite 350 Syracuse, NY 13212

Phone: (315) 451-9560 FAX: (315) 451-9570 Authorization: Proj. #743440.00011



Laboratory Analysis Report

For

Parsons

Client Project ID: SADVA - Schenectady Depot LSL Project ID: 1006452 Receive Date/Time: 04/28/10 9:54 Project Received by: GS

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody document submitted with these samples is considered by LSL to be an appendix of this report and may contain specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

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LSL MidLakes Lab 699 South Main Street Canandaigua, NY 14424 Tel. (585) 396-0270 Fax (585) 396-0377 NYS DOH ELAP #11369

This report was reviewed by:

Date: 25

5/24/10

Life Science Laboratories, Inc.

Sampled By: SBW

Parsons Syracuse, NY

Sample ID: **IRR-01** LSL Sample ID:

1006451-001

Location: Sampled:

Sample Matrix: NPW

04/27/10 11:25

Analyte EPA 524.2 Volatile Organic Chemicals Benzene	Result	Units	Date	Date & Time	Initials
-					
	<1	ug/l		4/30/10	BD
Bromobenzene	<1	ug/l		4/30/10	BD
Bromochloromethane	<1	ug/l		4/30/10	BD
Bromomethane	<1	ug/l		4/30/10	BD
sec-Butylbenzene	<1	ug/l		4/30/10	BE
n-Butylbenzene	<1	ug/l		4/30/10	BE
tert-Butylbenzene	<1	ug/l		4/30/10	BL
Carbon tetrachloride	<1	ug/l		4/30/10	BL
Chlorobenzene	<1	ug/l		4/30/10	BL
Chloroethane	<1	ug/l		4/30/10	BL
Chloromethane	<1	ug/l		4/30/10	BL
2-Chlorotoluene	<1	ug/l		4/30/10	BL
4-Chlorotoluene				4/30/10	
Dibromomethane	<1	ug/l			BE
	<1	ug/l		4/30/10	BE
1,2-Dichlorobenzene	<1	ug/l		4/30/10	BE
1,3-Dichlorobenzene	<1	ug/l		4/30/10	BE
1,4-Dichlorobenzene	<1	ug/l		4/30/10	BI
Dichlorodifluoromethane	<1	ug/l		4/30/10	BL
1,1-Dichloroethane	<1	ug/l		4/30/10	BI
1,2-Dichloroethane	<1	ug/l		4/30/10	BI
cis-1,2-Dichloroethene	<1	ug/l		4/30/10	BI
1,1-Dichloroethene	<1	ug/l		4/30/10	BI
trans-1,2-Dichloroethene	<1	ug/l		4/30/10	BI
1,2-Dichloropropane	<1	ug/l		4/30/10	BE
1,3-Dichloropropane	<1	ug/l		4/30/10	BĽ
2,2-Dichloropropane	<1	ug/l		4/30/10	BI
1,1-Dichloropropene	<1	ug/l		4/30/10	BD
cis-1,3-Dichloropropene	<1	ug/l		4/30/10	BE
trans-1,3-Dichloropropene	<1	ug/l		4/30/10	BD
Ethyl benzene	<1	ug/l		4/30/10	BD
Hexachlorobutadiene	<1	ug/l		4/30/10	BD
Isopropylbenzene (Cumene)	<1	ug/l		4/30/10	BE
4-Isopropyl toluene (Cymene)	<1	ug/l		4/30/10	BI
Methylene chloride	<2	ug/l		4/30/10	BE
Naphthalene	<1	ug/l		4/30/10	BE
n-Propylbenzene	<1	ug/l		4/30/10	BD
Styrene	<1	ug/l		4/30/10	BD
1,1,1,2-Tetrachloroethane	<1	ug/l		4/30/10	BD
1,1,2,2-Tetrachloroethane	<1	ug/l		4/30/10	BE
Tetrachloroethene	<1	ug/l		4/30/10	BE
Toluene	<1	ug/l		4/30/10	BE
1,2,3-Trichlorobenzene	<]	ug/l		4/30/10	BD
1,2,4-Trichlorobenzene	<1	ug/l		4/30/10	BD
1,1,1-Trichloroethane	<1	ug/i		4/30/10	BE
1,1,2-Trichloroethane	<1	ug/l		4/30/10	BE
Trichloroethene	1.8	ug/l		4/30/10	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		4/30/10	BD

Life Science Laboratories, Inc.

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5/4/10

Date Printed:

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

Syracuse, NY Parsons

Sample ID: **IRR-01**

04/27/10 11:25

LSL Sample ID:

1006451-001

Location:

Sampled:

Sampled By: SBW

Sample Matrix: NPW

		Prep	Analysis	Analyst
Result	Units	Date	Date & Time	Initials
<1	ug/l		4/30/10	BD
<1	ug/l		4/30/10	BD
<1	ug/l		4/30/10	BD
<1	ug/l		4/30/10	BD
<1	ug/l		4/30/10	BD
<1	ug/l		4/30/10	BD
<1	ug/l		4/30/10	BD
<1	ug/l		4/30/10	BD
<1	ug/l		4/30/10	BD
<1	ug/l		4/30/10	BD
<1	ug/l		4/30/10	BD
103	%R		4/30/10	BD
92	%R		4/30/10	BD
	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 03	<1 ug/l <1 ug/l	Result Units Date <1	ResultUnitsDateDate & Time <1 ug/l $4/30/10$

Parsons Syracuse, NY

LSL Sample ID:

1006451-002

Sample ID: LCS

04/28/10 0:00

Location:

Sampled:

Sampled By:

Sample Matrix: QC

Analytical Method Prep Analysis Analyst Units Date Date & Time Initials Analyte Result EPA 524.2 Volatile Organic Chemicals (1)Benzene 98 %R 4/30/10 BD 98 %R 4/30/10 BD Bromobenzene 4/30/10 Bromochloromethane 108 %R BD Bromomethane 96 %R 4/30/10 BD sec-Butylbenzene 93 %R 4/30/10 BD n-Butylbenzene 86 %R 4/30/10 BD 93 %R 4/30/10 BD tert-Butylbenzene 91 Carbon tetrachloride %R 4/30/10 BD Chlorobenzene 100 %R 4/30/10 BD Chloroethane 103 %R 4/30/10 BD Chloromethane 97 %R 4/30/10 BD %R 2-Chlorotoluene 90 4/30/10 BD 4-Chlorotoluene 90 %R 4/30/10 BD Dibromomethane 96 %R 4/30/10 BD 1,2-Dichlorobenzene 97 %R 4/30/10 BD 99 %R 1,3-Dichlorobenzene 4/30/10 BD 1,4-Dichlorobenzene 97 %R 4/30/10 BD Dichlorodifluoromethane 113 %R 4/30/10 BD 1.1-Dichloroethane 92 %R 4/30/10 BD 1,2-Dichloroethane 93 %R 4/30/10 BD 92 %R cis-1,2-Dichloroethene 4/30/10 BD 1,1-Dichloroethene 88 %R 4/30/10 BD %R trans-1,2-Dichloroethene 84 4/30/10 BD 1.2-Dichloropropane 92 %R 4/30/10 BD 93 1,3-Dichloropropane %R 4/30/10 BD 2,2-Dichloropropane 82 %R 4/30/10 BD 1,1-Dichloropropene 82 %R 4/30/10 BD cis-1,3-Dichloropropene %R 89 4/30/10 BD trans-1,3-Dichloropropene 88 %R 4/30/10 BD %R Ethyl benzene 95 4/30/10 BD Hexachlorobutadiene 103 %R 4/30/10 BD Isopropylbenzene (Cumene) 92 %R 4/30/10 BD 4-Isopropyl toluene (Cymene) 97 %R 4/30/10 ΒÐ Methylene chloride 89 %R 4/30/10 BD 88 %R 4/30/10 Naphthalene BD n-Propylbenzene 93 %R 4/30/10 BD 102 %R 4/30/10 BD Styrene 1,1,1,2-Tetrachloroethane 99 %R 4/30/10 BD 1,1,2,2-Tetrachloroethane 90 %R 4/30/10 BD 4/30/10 Tetrachloroethene 98 %R BD Toluene 95 BD %R 4/30/10 1,2,3-Trichlorobenzene 96 %R 4/30/10 BD 1,2,4-Trichlorobenzene 99 %R 4/30/10 BD 1,1,1-Trichloroethane 95 %R 4/30/10 BD 1,1,2-Trichloroethane 97 %R 4/30/10 BD 93 %R 4/30/10 BD Trichloroethene 109 %R 4/30/10 Trichlorofluoromethane (Freon 11) BD

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5/4/10

Date Printed:

Parsons Syracuse, NY

Sample ID: LCS

LSL Sample ID:

: 100

1006451-002

Location:

Sampled:

Sampled By:

Sample Matrix: QC

04/28/10 0:00

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 524.2 Volatile Organic Chemicals	· · ·				<u></u>
1,2,3-Trichloropropane	80	%R		4/30/10	BD
1,2,4-Trimethylbenzene	92	%R		4/30/10	BD
1,3,5-Trimethylbenzene	90	%R		4/30/10	BD
Vinyl chloride	104	%R		4/30/10	BD
Bromodichloromethane	98	%R		4/30/10	BD
Bromoform	97	%R		4/30/10	BD
Chloroform	100	%R		4/30/10	BD
o-Xylene	95	%R		4/30/10	BD
m-Xylene	98*	%R		4/30/10	BD
Chromatographically, para- and meta- xylene c thereof.	co-elute. The repo	ort values may rep	resent either of thes	e compounds or a comb	ination
p-Xylene	*	%R		4/30/10	BD
Dibromochloromethane	88	%R		4/30/10	BD
Surrogate (1,2-DCA-d4)	97	%R		4/30/10	BD
Surrogate (4-BFB)	89	%R		4/30/10	BD

Sampled By:

Parsons Syracuse, NY

LSL Sample ID:

1006451-003

Sample ID: Location:

Sampled:

Sample Matrix: QC

Method Blank

Analytical Method	n t	T	Prep	Analysis Data & Timo	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
<i>D</i> EPA 524.2 Volatile Organic Chemicals					
Benzene	<1	ug/l		4/30/10	BD
Bromobenzene	<1	ug/l		4/30/10	BD
Bromochloromethane	<1	ug/l		4/30/10	BD
Bromomethane	<1	ug/l		4/30/10	BD
sec-Butylbenzene	<1	ug/l		4/30/10	BD
n-Butylbenzene	<1	ug/l		4/30/10	BE
tert-Butylbenzene	<1	ug/l		4/30/10	BC
Carbon tetrachloride	<1	ug/l		4/30/10	BE
Chlorobenzene	<1	ug/l		4/30/10	BE
Chloroethane	<1	ug/l		4/30/10	BE
Chloromethane	<1	ug/l		4/30/10	BE
2-Chlorotoluene	<1	ug/l		4/30/10	BD
4-Chlorotoluene	<1	ug/l		4/30/10	BE
Dibromomethane	<1	ug/l		4/30/10	BE
1,2-Dichlorobenzene	<1	ug/l		4/30/10	BE
1,3-Dichlorobenzene	<1	ug/l		4/30/10	BE
1,4-Dichlorobenzene	<1	ug/l		4/30/10	BE
Dichlorodifluoromethane	<1	ug/l		4/30/10	BL
1,1-Dichloroethane	<1	ug/l		4/30/10	BI
1,2-Dichloroethane	<1	ug/l		4/30/10	BL
cis-1,2-Dichloroethene	<1	ug/l		4/30/10	BL
1,1-Dichloroethene	<1	ug/l		4/30/10	BI
trans-1,2-Dichloroethene	<1	ug/l		4/30/10	BE
1,2-Dichloropropane	<1	ug/l		4/30/10	BE
1,3-Dichloropropane	<1	ug/l		4/30/10	BE
2,2-Dichloropropane	<1	ug/l		4/30/10	BI
1,1-Dichloropropene	<1	ug/l		4/30/10	BE
cis-1,3-Dichloropropene	<1	ug/l		4/30/10	BL
trans-1,3-Dichloropropene	<1	ug/l		4/30/10	BE
Ethyl benzene	<1	ug/l		4/30/10	BE
Hexachlorobutadiene	<1	ug/l		4/30/10	BE
Isopropylbenzene (Cumene)	<1	ug/l		4/30/10	BE
4-Isopropyl toluene (Cymene)	<1	ug/l		4/30/10	BL
Methylene chloride	<2	ug/l		4/30/10	BL
Naphthalene	<1	ug/l		4/30/10	BE
n-Propylbenzene	<1	ug/l		4/30/10	BL
	<1	-		4/30/10	BL
Styrene		ug/l			
1,1,1,2-Tetrachloroethane	<1	ug/1		4/30/10	BE
1,1,2,2-Tetrachloroethane	<1	ug/l		4/30/10	BE
Tetrachloroethene	<1	ug/l		4/30/10	BI
Toluene	<1	ug/l		4/30/10	BE
1,2,3-Trichlorobenzene	<1	ug/l		4/30/10	BE
1,2,4-Trichlorobenzene	<1	ug/l		4/30/10	BL
1,1,1-Trichloroethane	<1	ug/l		4/30/10	BL
1,1,2-Trichloroethane	<1	ug/l		4/30/10	BE
Trichloroethene	<1	ug/l		4/30/10	BD
Trichlorofluoromethane (Freon 11)	<]	ug/l		4/30/10	BD

Life Science Laboratories, Inc.

Page 6 of 7

Date Printed:

5/4/10

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

Syracuse, NY Parsons

LSL Sample ID: **Method Blank** Sample ID: Location:

Sampled:

Sampled By:

Sample Matrix: QC					
Analytical Method Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 524.2 Volatile Organic Chemicals					
1,2,3-Trichloropropane	<1	ug/l		4/30/10	BD
1,2,4-Trimethylbenzene	<1	ug/l		4/30/10	BD
1,3,5-Trimethylbenzene	<1	ug/l		4/30/10	BD
Vinyl chloride	<1	ug/l		4/30/10	BD
Bromodichloromethane	<1	ug/l		4/30/10	BD
Bromoform	<1	ug/l		4/30/10	BD
Chloroform	<1	ug/l		4/30/10	BD
o-Xylene	<1	ug/l		4/30/10	BD
m-Xylene	<1	ug/l		4/30/10	BD
p-Xylene	<1	ug/l		4/30/10	BD
Dibromochloromethane	<1	ug/l		4/30/10	BD
Surrogate (1,2-DCA-d4)	101	%R		4/30/10	BD
Surrogate (4-BFB)	94	%R		4/30/10	BD

Page 7 of 7 5/4/10

Life Science Laboratories, Inc.

1006451-003

Parsons Syracuse, NY

Sample ID: IRR-01

5/24/10

C G D

LSL Sample ID:

1006452-002

Location:

Sampled: 04/27/10 11:25

Sampled By: SBW

Sample Matrix: NPW

Analytical M			Result	Unite	MDL	Prep Date	Analys Date & T		Analyst Initials
Analy			Kesuit	Units	MDL	Date	Dute de 1		
() EPA 140.1	l, Odor		~1	T.O.N.			4/29/10	08:34	TER
Odor			<1	1. O .N.			4/29/10	00.54	TER
<i>v</i> EPA 180.1	l Turbidity								
Turbid	lity		6.9	NTU			4/28/10	12:35	DDR
1) EPA 8082	PCB's								
Aroclo	r-1016		< 0.05	ug/l	0.002	5/3/10	5/20/10		STS
Aroclo	r-1221		< 0.05	ug/l	0.01	5/3/10	5/20/10		STS
Aroclo	r-1232		< 0.05	-	0.006	5/3/10	5/20/10		STS
Aroclo	r-1242		< 0.05	-	0.008	5/3/10	5/20/10		STS
Aroclo	r-1248		< 0.05	-	0.01	5/3/10	5/20/10		STS
Aroclo	r-1254		<0.05	-	0.01	5/3/10	5/20/10		STS
Aroclo			<0.05	-	0.002	5/3/10	5/20/10		STS STS
Surrog	gate (DCB)		111	%R		5/3/10	5/6/10		513
1) EPA Meth	od 200.8 Metals								
Please	refer to the next page								
1) SM 18-21	4500-Н В (00) рН								
pH	(00) II I (00) F		6.8	Std. Units			4/28/10	11:14	RE
-	easurement Temperature		25	Degrees C			4/28/10	11:14	RD
NYS DOH ELAP considered to be	and NELAC specifications requi performed past its holding time.	re pH to be measured imm	iediately a	t the time of	sample collect	tion. Any lab	oratory analy	sis of pH :	should be
1) SM18 212									
Appar	ent Color		<5.0	Units			4/29/10	08:16	IJC
1) SM18-254	40C Total Dissolved Solids								
Total l	Dissolved Solids @ 180 C		380	mg/l		4/29/10	4/ 2 9/10	13:51	MM
1) Total Coli	form by Readycult Method	l							
	Coliform		Negative				4/28/10	10:40	CVE
	Screen		Negative				4/28/10	10:40	CVE
Sample ID:	SW-4 (2010)				LSL Sam	ole ID:	10	06452-0	03
Location:	511-4 (2010)								
Sampled:	04/27/10 15:00	Sampled By: SB	W						
Sample Matr	rix: NPW								
Analytical M	lethod					Prep	Analys		Analys
Anal	yte		Result	Units	MDL	Date	Date & 7	ime	Initial
(1) EPA 8270) Semi-Volatiles (Partial Li	st)							
bis(2-l	Ethylhexyl)phthalate		0.7 J	ug/l	0.4	5/3/10	5/7/10		MEC
	J = estimated value.								
	gate (2-Fluorophenol)			%R		5/3/10	5/7/10		MEG
Surro	gate (Phenol-d5)			%R		5/3/10	5/7/10		MEG
Surro	gate (2,4,6-Tribromophenol)			%R		5/3/10	5/7/10		MEG
			99	%R		5/3/10	5/7/10		MEG
Surro	gate (Nitrobenzene-d5)								
Surro Surro	gate (Nitrobenzene-d5) gate (2-Fluorobiphenyl) gate (Terphenyl-d14)		100	%R %R		5/3/10 5/3/10	5/7/10 5/7/10		MEG

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes



Life Science Laboratories, Inc.

Analytical Results

E	Cast Syracuse, NY 130	57 (315) 445-11	05		StateCert	No: 10248
CLIENT: Project:	Life Science Labs-LIM 1006452-ParsonsEngS			Lab ID: Client Sample ID:		348-001A
W Order:	K1004348			Collection Date:	04/27/10) 11:25
Matrix:	WATER			Date Received:	04/28/10) 9:54
Inst. ID:	ICPMS ELAN 6100	Sample Size: 50 mL		PrepDate:	04/29/10	0:00
ColumnID:	:	%Moisture:		BatchNo:	11150/R	19814
Revision:	05/04/10 10:30	TestCode 200.8_NI	W	FileID:	1-SAMP)
Col Type:						
Analyte		ResultQual	PQL	Units	DF	Date Analyzed
METALS B	BY ICPMS			EPA 200.8		(E200.2)
Lead		ND	0.0020	mg/L	2	05/03/10 14:51

Qualifiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
	F.	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	Р	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

G	51:	21	<i>41</i>	0	

04/27/10 0:00

-- LABORATORY ANALYSIS REPORT --

LSL Sample ID:

Parsons Syracuse, NY

Sample ID: Trip Blank

Location:

Sampled:

Sampled By:

Sample Matrix: TB

Analytical Method Analyte	Result	Units	MDL	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 524.2 Volatile Organic Chemicals						
Benzene	<1	ug/l	1		4/30/10	BD
Bromobenzene		ug/l	1		4/30/10	BD
		ug/l	1		4/30/10	BD
Bromochloromethane		ug/l	1		4/30/10	BD
Bromomethane sec-Butylbenzene		ug/l	1		4/30/10	BD
•		ug/l	1		4/30/10	BD
n-Butylbenzene		ug/l	1		4/30/10	BD
tert-Butylbenzene Carbon tetrachloride		ug/l	1		4/30/10	BD
		ug/l	1		4/30/10	BD
Chlorobenzene		ug/l	1		4/30/10	BD
Chloroethane		ug/l	1		4/30/10	BD
Chloromethane		ug/l	1		4/30/10	BD
2-Chlorotoluene		ug/l	1		4/30/10	BD
4-Chlorotoluene		•	1		4/30/10	BD
Dibromomethane		ug/l			4/30/10	BD
1,2-Dichlorobenzene		ug/l	1		4/30/10	BD
1,3-Dichlorobenzene		ug/l	1			BL
1,4-Dichlorobenzene		ug/l	1		4/30/10	
Dichlorodifluoromethane		ug/l	1		4/30/10	BD
1,1-Dichloroethane		ug/l	1		4/30/10	BĽ
1,2-Dichloroethane		ug/l	1		4/30/10	BE
cis-1,2-Dichloroethene		ug/l	1		4/30/10	BI
1,1-Dichloroethene		ug/l	1		4/30/10	BD
trans-1,2-Dichloroethene		ug/l	1		4/30/10	BD
1,2-Dichloropropane	<1	ug/l	1		4/30/10	BI
1,3-Dichloropropane	<1	ug/l	1		4/30/10	BĽ
2,2-Dichloropropane	<1	ug/l	1		4/30/10	BI
1,1-Dichloropropene	<1	ug/l	1		4/30/10	BI
cis-1,3-Dichloropropene	<1	ug/l	1		4/30/10	BI
trans-1,3-Dichloropropene	<1	ug/l	1		4/30/10	BI
Ethyl benzene	<1	ug/l	1		4/30/10	BI
Hexachlorobutadiene	<1	ug/l	1		4/30/10	BI
Isopropylbenzene (Cumene)	<1	ug/l	1		4/30/10	BI
4-Isopropyl toluene (Cymene)	<1	ug/l	1		4/30/10	BI
Methylene chloride	<2	ug/l	2		4/30/10	BI
Naphthalene	<1	ug/l	1		4/30/10	BI
n-Propylbenzene	<1	ug/l	1		4/30/10	BI
Styrene	<1	ug/l	1		4/30/10	BI
1,1,1,2-Tetrachloroethane	<1	ug/l	1		4/30/10	BI
1,1,2,2-Tetrachloroethane		ug/l	1		4/30/10	BI
Tetrachloroethene		ug/l	1		4/30/10	BI
Toluene		ug/l	1		4/30/10	BI
1,2,3-Trichlorobenzene		ug/l	1		4/30/10	BI
1,2,3-1 Fichlorobenzene		ug/l	1		4/30/10	BI
		ug/l	1		4/30/10	B
1,1,1-Trichloroethane		ug/i ug/i	1		4/30/10	B
1,1,2-Trichloroethane		ug/l	1		4/30/10	B
Trichloroethene		•			4/30/10	BI
Trichlorofluoromethane (Freon 11)	<	lug/l	1		-1/JU/10	DI

Life Science Laboratories, Inc.

Date Printed: 5/24/10

1006452-004

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes

	U	STATES		Ш.	
5	12	¥,	110		

Parsons Syracuse, NY

Sample ID: **Trip Blank**

04/27/10 0:00

LSL Sample ID:

1006452-004

Location:

Sampled:

Sampled By:

Sample Matrix: TB

Analytical Method	Decult	Units	MDL	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result		MIDL	Date	Date & Time	Initials
(1) EPA 524.2 Volatile Organic Chemicals						
1,2,3-Trichloropropane	<1	ug/l	1		4/30/10	BD
1,2,4-Trimethylbenzene	<1	ug/l	1		4/30/10	BD
1,3,5-Trimethylbenzene	<1	ug/l	1		4/30/10	BD
Vinyl chloride	<1	ug/l	1		4/30/10	BD
Bromodichloromethane	<1	ug/l	1		4/30/10	BD
Bromoform	<1	ug/l	1		4/30/10	BD
Chloroform	<1	ug/l	1		4/30/10	BD
o-Xylene	<1	ug/l	1		4/30/10	BD
m-Xylene	<1	ug/l	1		4/30/10	BD
p-Xylene	<1	ug/l	1		4/30/10	BD
Dibromochloromethane	<1	ug/l	1		4/30/10	BD
Surrogate (1,2-DCA-d4)	106	%R			4/30/10	BD
Surrogate (4-BFB)	94	%R			4/30/10	BD

04/28/10 0:00

-- LABORATORY ANALYSIS REPORT --

Parsons Syracuse, NY

LSL Sample ID:

1006452-005

Sample ID: LCS

Location:

Sampled:

Sampled By:

Sample Matrix: QC

nalytical Method Analyte	Result	Units	MDL	Prep Date	Analysis Date & Time	Analy: Initia
EPA 524.2 Volatile Organic Chemicals						
Benzene	98	%R			4/30/10	В
Bromobenzene		%R			4/30/10	B
Bromobelizene Bromochloromethane		%R			4/30/10	B
		%R			4/30/10	B
Bromomethane		%R %R			4/30/10	B
sec-Butylbenzene		%R			4/30/10	B
n-Butylbenzene		%R			4/30/10	B
tert-Butylbenzene		%R			4/30/10	B
Carbon tetrachloride					4/30/10	B
Chlorobenzene		%R				
Chloroethane		%R			4/30/10	B
Chloromethane		%R			4/30/10	E
2-Chlorotoluene		%R			4/30/10	E
4-Chlorotoluene		%R			4/30/10	E
Dibromomethane		%R			4/30/10	E
1,2-Dichlorobenzene		%R			4/30/10	E
1,3-Dichlorobenzene		%R			4/30/10	I
1,4-Dichlorobenzene		%R			4/30/10	I
Dichlorodifluoromethane		%R			4/30/10	I
1,1-Dichloroethane		%R			4/30/10	I
1,2-Dichloroethane	93	%R			4/30/10	I
cis-1,2-Dichloroethene	92	%R			4/30/10	1
1,1-Dichloroethene	88	%R			4/30/10	1
trans-1,2-Dichloroethene	84	%R			4/30/10]
1,2-Dichloropropane	92	%R			4/30/10]
1,3-Dichloropropane	93	%R			4/30/10]
2,2-Dichloropropane	82	%R			4/30/10]
1,1-Dichloropropene	82	%R			4/30/10	1
cis-1,3-Dichloropropene	89	%R			4/30/10]
trans-1,3-Dichloropropene	88	%R			4/30/10]
Ethyl benzene	95	%R			4/30/10]
Hexachlorobutadiene	103	%R			4/30/10	
Isopropylbenzene (Cumene)	92	%R			4/30/10	
4-Isopropyl toluene (Cymene)	97	%R			4/30/10]
Methylene chloride	89	%R			4/30/10	
Naphthalene		%R			4/30/10]
n-Propylbenzene		%R			4/30/10	
Styrene		%R			4/30/10]
1,1,1,2-Tetrachloroethane		%R			4/30/10]
1,1,2,2-Tetrachloroethane		%R			4/30/10]
Tetrachloroethene		%R			4/30/10]
Toluene		%R			4/30/10]
1,2,3-Trichlorobenzene		%R			4/30/10	1
		%R			4/30/10	1
1,2,4-Trichlorobenzene						
1,1,1-Trichloroethane		%R			4/30/10	
1,1,2-Trichloroethane		%R			4/30/10	1
Trichloroethene		%R			4/30/10]
Trichlorofluoromethane (Freon 11)	109	%R			4/30/10	I

Life Science Laboratories, Inc.

Date Printed: 5/24/10

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes

Imple ID: LCS cation:	92 90 104 98	Units %R %R %R	LSL Sam	ple ID: Prep Date	1006452-(Analysis Date & Time 4/30/10	005 Analyst Initials
mpled: 04/28/10 0:00 Sampled By: mple Matrix: QC alytical Method Analyte EPA 524.2 Volatile Organic Chemicals 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride Bromodichloromethane	80 92 90 104 98	%R %R %R	MDL	-	Date & Time	
mple Matrix: QC alytical Method <u>Analyte</u> EPA 524.2 Volatile Organic Chemicals 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride Bromodichloromethane	80 92 90 104 98	%R %R %R	MDL	-	Date & Time	
alytical Method Analyte EPA 524.2 Volatile Organic Chemicals 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride Bromodichloromethane	80 92 90 104 98	%R %R %R	MDL	-	Date & Time	
Analyte EPA 524.2 Volatile Organic Chemicals 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride Bromodichloromethane	80 92 90 104 98	%R %R %R	MDL	-	Date & Time	
EPA 524.2 Volatile Organic Chemicals 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride Bromodichloromethane	80 92 90 104 98	%R %R %R	MDL	Date		Initials
1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride Bromodichloromethane	92 90 104 98	%R %R			4/30/10	
1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride Bromodichloromethane	92 90 104 98	%R %R			4/30/10	
1,3,5-Trimethylbenzene Vinyl chloride Bromodichloromethane	90 104 98	%R			-10010	BD
Vinyl chloride Bromodichloromethane	104 98				4/30/10	BD
Bromodichloromethane	98				4/30/10	BD
		%R			4/30/10	BD
	97	%R			4/30/10	BD
Bromoform		%R			4/30/10	BD
Chloroform	100	%R			4/30/10	BD
o-Xylene	95	%R			4/30/10	BD
m-Xylene	98*				4/30/10	BD
Chromatographically, para- and meta- xylene co- thereof.	elute. The repo	ort values n	nay represent e	ither of these	compounds or a comb	ination
p-Xylene	*	%R			4/30/10	BD
Dibromochloromethane	88	%R			4/30/10	BD
Surrogate (1,2-DCA-d4)	97	%R			4/30/10	BE
Surrogate (4-BFB)	89	%R			4/30/10	BE
EPA 8082 PCB's						
Aroclor-1016	105	%R		5/3/10	5/6/10	STS
Aroclor-1221				5/3/10	5/6/10	STS
Aroclor-1232				5/3/10	5/6/10	STS
Aroclor-1242				5/3/10	5/6/10	STS
Aroclor-1248				5/3/10	5/6/10	STS
Aroclor-1254				5/3/10	5/6/10	STS
Aroclor-1260	115	%R		5/3/10	5/6/10	STS
Surrogate (DCB)	116	%R		5/3/10	5/6/10	STS
EPA 8270 Semi-Volatiles (Partial List)						
bis(2-Ethylhexyl)phthalate	88	%R		5/3/10	5/7/10	MEG
Surrogate (2-Fluorophenol)	83	%R		5/3/10	5/7/10	MEG
Surrogate (Phenol-d5)	83	%R		5/3/10	5/7/10	MEG
Surrogate (2,4,6-Tribromophenol)	151	%R		5/3/10	5/7/10	MEG
Surrogate (Nitrobenzene-d5)	90	%R		5/3/10	5/7/10	MEG
Surrogate (2-Fluorobiphenyl)	101	%R		5/3/10	5/7/10	MEG
Surrogate (Terphenyl-d14)	112	%R		5/3/10	5/7/10	MEG

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes



Life Science Laboratories, Inc.

ANALYTICAL QC SUMMARY REPORT

5854 Butternut Drive East Syracuse, NY 1305 CLIENT: Life Science						Meti Worl Proje	(Order:	EPA 200 K100434 1006452-	8	EngScie	ence	
Sample ID: LCS-11150 Client ID: ZZZZZ Instrument:	SampType: LCS Batch ID: 11150 ColumnID:	TestCode Method:	200.8_NPW EPA 200.8	Units: mg/L (E200.2)	. <u></u>	Prep Date: Analysis Dat	4/29/2010 e: 5/3/2010		RunNo: SeqNo:	1981 5068		<u></u>
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit F	PD Ref Val	9	6RPD	RPDLimit	Qual
Lead	1.05	0.0020	1	0	105	85	115					

Qualifiers:	ND	Analyte detected in the associated Method Blank Not Detected at the Practical Quantitation Limit (PQL) Not Detected at the MDC or RL	E R	Value exceeds the instrument calibration range RPD exceeds accepted precision limit	J S	Analyte detected below the PQL Spike Recovery outside accepted recovery limits
Date:		04-May-10				Page 2 of 2

	LA	BORATORY A	NALYSIS REPORT -	-
s	24/10	Parsons	Syracuse, NY	
Sample ID:	Method Blank		LSL Sample ID:	1006452-006

Location:

Sampled:

Sampled By:

Sample Matrix: QC

04/28/10 0:00

nalytical Method Analyte	Result Units	Prej MDL Date		Analys Initia
EPA 524.2 Volatile Organic Chemicals				
Benzene	<1 ug/l	1	4/30/10	B
Bromobenzene	<1 ug/l	1	4/30/10	B
Bromochloromethane	<1 ug/l	1	4/30/10	В
Bromomethane	<1 ug/l	1	4/30/10	В
sec-Butylbenzene	<1 ug/l	1	4/30/10	В
n-Butylbenzene	<1 ug/l	1	4/30/10	Е
tert-Butylbenzene	<1 ug/l	1	4/30/10	E
Carbon tetrachloride	<1 ug/l	1	4/30/10	E
Chlorobenzene	<1 ug/l	1	4/30/10	E
Chloroethane	<1 ug/1	1	4/30/10	E
Chloromethane	<1 ug/l	1	4/30/10	E
2-Chlorotoluene	<1 ug/l	1	4/30/10	· E
4-Chlorotoluene	<1 ug/l	1	4/30/10	E
Dibromomethane	<1 ug/1	1	4/30/10	Ē
1,2-Dichlorobenzene	<1 ug/l	1	4/30/10	Ē
1,2-Dichlorobenzene	<1 ug/1	1	4/30/10	I
-	<1 ug/1	1	4/30/10	I
1,4-Dichlorobenzene Dichlorodifluoromethane	<1 ug/l	1	4/30/10	l
	<1 ug/1	1	4/30/10	I
1,1-Dichloroethane	<1 ug/l	1	4/30/10	H
1,2-Dichloroethane	-	1	4/30/10	I
cis-1,2-Dichloroethene	<1 ug/l	1	4/30/10	l
1,1-Dichloroethene	<1 ug/l		4/30/10	l
trans-1,2-Dichloroethene	<1 ug/l	1	4/30/10	I
1,2-Dichloropropane	<1 ug/l	1	4/30/10	I
1,3-Dichloropropane	<1 ug/l	1	4/30/10	I
2,2-Dichloropropane	<1 ug/l	1		د [
1,1-Dichloropropene	<1 ug/l	1	4/30/10	I
cis-1,3-Dichloropropene	<1 ug/l	1	4/30/10	
trans-1,3-Dichloropropene	<1 ug/l	1	4/30/10	I
Ethyl benzene	<1 ug/l	1	4/30/10	I
Hexachlorobutadiene	<1 ug/l	1	4/30/10]
Isopropylbenzene (Cumene)	<1 ug/l	1	4/30/10]
4-Isopropyl toluene (Cymene)	<1 ug/1	1	4/30/10]
Methylene chloride	<2 ug/l	2	4/30/10]
Naphthalene	<1 ug/l	1	4/30/10]
n-Propylbenzene	<1 ug/1	1	4/30/10]
Styrene	<1 ug/1	1	4/30/10]
1,1,1,2-Tetrachloroethane	<1 ug/1	1	4/30/10]
1,1,2,2-Tetrachloroethane	<1 ug/l	1	4/30/10]
Tetrachloroethene	<1 ug/l	1	4/30/10	1
Toluene	<1 ug/1	1	4/30/10	1
1,2,3-Trichlorobenzene	<1 ug/l	1	4/30/10	1
1,2,4-Trichlorobenzene	<1 ug/l	1	4/30/10]
1,1,1-Trichloroethane	<1 ug/l	1	4/30/10	1
1,1,2-Trichloroethane	<1 ug/l	1	4/30/10	1
Trichloroethene	<1 ug/l	1	4/30/10]
Trichlorofluoromethane (Freon 11)	<1 ug/l	1	4/30/10	

Life Science Laboratories, Inc.

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes

	EU.	
5/24/	10	

Parsons Syracuse, NY

LSL Sample ID:

Sample ID: Method Blank

04/28/10 0:00

Location:

Sampled:

Sampled By:

Sample Matrix: QC

(1)	Analyte EPA 524.2 Volatile Organic Chemicals	Result	<u>Units</u>	MDL	Date	- Noto & Ti		
(1)]	-					Date & Ti	me	Initials
	1,2,3-Trichloropropane	<1	ug/l	1		4/30/10		BD
	1,2,4-Trimethylbenzene	<1	ug/l	1		4/30/10		BD
	1,3,5-Trimethylbenzene	<1	ug/l	1		4/30/10		BD
	Vinyl chloride	<1	ug/l	1		4/30/10		BD
	Bromodichloromethane	<1	ug/l	1		4/30/10		BD
	Bromoform	<1	ug/l	1		4/30/10		BD
	Chloroform	<1	ug/l	1		4/30/10		BD
	o-Xylene	<1	ug/l	1		4/30/10		BD
	m-Xylene	<1	ug/l	1		4/30/10		BD
	p-Xylene	<1	ug/l	1		4/30/10		BD
	Dibromochloromethane	<1	ug/l	1		4/30/10		BD
	Surrogate (1,2-DCA-d4)	101	%R			4/30/10		BD
	Surrogate (4-BFB)	94	%R	1		4/30/10		BD
(1)	EPA 8082 PCB's							
	Aroclor-1016	< 0.05	ug/l	0.001	5/3/10	5/20/10		STS
	Aroclor-1221	< 0.05	ug/l	0.01	5/3/10	5/20/10		STS
	Aroclor-1232	< 0.05	ug/l	0.006	5/3/10	5/20/10		STS
	Aroclor-1242	< 0.05	ug/l	0.008	5/3/10	5/20/10		STS
	Aroclor-1248	< 0.05	ug/l	0.01	5/3/10	5/20/10		STS
	Aroclor-1254	< 0.05	ug/l	0.01	5/3/10	5/20/10		STS
	Aroclor-1260	< 0.05	ug/l	0.001	5/3/10	5/20/10		STS
	Surrogate (DCB)	113	%R		5/3/10	5/6/10		STS
(1)	EPA 8270 Semi-Volatiles (Partial List)							
	bis(2-Ethylhexyl)phthalate	5.0	ug/l	0.4	5/3/10	5/7/10		MEG
	Surrogate (2-Fluorophenol)	72	%R		5/3/10	5/7/10		MEG
	Surrogate (Phenol-d5)	70	%R		5/3/10	5/7/10		MEG
	Surrogate (2,4,6-Tribromophenol)	147	%R		5/3/10	5/7/10		MEG
	Surrogate (Nitrobenzene-d5)	78	%R		5/3/10	5/7/10		MEG
	Surrogate (2-Fluorobiphenyl)	87	%R		5/3/10	5/7/10		MEG
	Surrogate (Terphenyl-d14)	132	%R		5/3/10	5/7/10		MEG
(1)	EPA Method 200.8 Metals							
	Please refer to the next page							
(1)	SM18-2540C Total Dissolved Solids							
	Total Dissolved Solids @ 180 C	<10	mg/l		4/29/10	4/29/10	13:49	MM

1006452-006

Life Science Laboratories, Inc.



Life Science Laboratories, Inc.

SampType: MBLK

5854 Butternut Drive

Sample ID: MB-11150

East Syracuse, NY 13057 (315) 445-1105

Life Science Labs-LIMS CLIENT:

ANALYTICAL QC SUMMARY REPORT

	Metho Work C		EPA 200.8 K1004348						
	Project	:	1006452-ParsonsE	ngScience					
mg/L	Prep Date:	4/29/2010	RunNo:	19814					
2}	Analysis Date:	5/3/2010	SeqNo:	506885					

Client ID: ZZZZZ	Batch ID: 11150	Method	EPA 200.8	(E200.2)		Analysis Date	: 5/3/20	10	SeqNo:	506885	
Instrument:	ColumnID:										
	QC Sample			Parent Sample							
Analyte	Result	PQL	SPK Added	Result	%REC	LowLimit I	fighLimit	RPD Ref Val	1 %R	PD RPDLimit	Qual
Lead	ND	0.0020									

Units:

TestCode: 200.8_NPW

Qualifiers:

B Analyte detected in the associated Method Blank

E Value exceeds the instrument calibration range

ND Not Detected at the Practical Quantitation Limit (PQL) U Not Detected at the MDC or RL

R RPD exceeds accepted precision limit

Analyte detected below the PQL J

S Spike Recovery outside accepted recovery limits

Date:

04-May-10

Page 1 of 2

	5854 Butt East Syra					Contact Person: LSL					EngScience —		
hone # (315) 445-1105			Telefax # (315) 445-1301										
lient:	P6(3)	ons-JNSC	Phone # 3	5-751-7560						Client's Site I.D.:			
ddress:	301 Plainfield Rd.		Fax # 2	15-45 1-75 10		-			SADVA - Scherestady Depot				
4	Suite 350 Syracuse, NY. 13212						- -						
۔ ب	Syracuse NY 13212		Authorization:				Client's Project				et I.D.: 74 3440,00011		
	,	Cilent's Sample		Sample Type		<u> </u>	Preserv. C		ntainers		Free Ci Pres	Pres. Check	
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002 H	-Rd	IRR-01		1125	×		Water		1			(4,) (1)	
cos A	<u> </u>	5W-4(2010)		1300	×		Water		2		BEHP NOCS		
00'l A	<u>B'</u>	Trip Blank TB-1	4-27-10		X		Water		2	ilo ul glass			
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