

Office of the Commissioner
Department of Environmental Services
City Hall Room 300B, 30 Church Street
Rochester, New York 14614-1290
www.cityofrochester.gov



Division of Environmental Quality

March 1, 2016

NYSDEC Region 8 6274 East Avon-Lima Road Avon, New York 14414 Attn: Mr. Mike Zamiarski

Re: 62-64 Scio Street Brownfield Cleanup

USEPA Assistance ID No. BF97219700

NYSDEC Spill No. 0650898

Groundwater Evaluation Summary Report

Dear Mike:

Please find enclosed summary information regarding the brownfield cleanup and groundwater quality evaluation which the City of Rochester has been conducting at 62-64 Scio Street, Rochester (Figure 1). Included with this report are: a copies of the laboratory analytical results; copies of the field sampling data; groundwater contour maps; and groundwater summary tables with graphical representations of groundwater contaminant concentrations through time.

Background and Methods

The City began the groundwater quality evaluation following contaminated soil source removal in August 2012, which is described in detail in the Soil Source Removal Remedial Action Summary Report previously submitted to the NYSDEC on March 25, 2013. Approximately 1,400 tons of petroleum contaminated soil were excavated from the Site as a result of two (2) leaking underground storage tanks, which were removed between 2003 and 2006. Soils exhibiting residual petroleum contamination were left in place along the southern limits of the property due to property limit restrictions and the presence of several public and private utility lines which could have potentially been damaged during excavation.

Six (6) new groundwater monitoring wells were installed at the Site in August, 2013. Monitoring Wells MW-4 and MW-6 were installed in the approximate locations of former monitoring wells MW-3 and MW-1 respectively, which were destroyed during the soil source excavation activities. Monitoring Wells MW-8 and MW-9 were installed on the southern adjacent property, hydraulically down-gradient from the Site, in order to further evaluate potential off-site contaminant migration. Figure 1 illustrates the locations of the existing monitoring well array. Post source removal groundwater samples were collected in August, 2013 and baseline contaminant concentrations were evaluated. Elevated levels of petroleum contaminants were detected in the south-central portion of the Site, and in the two (2) off-Site

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wells. Consequently, in June, 2014, the City installed a MATRIX, 16-injection point (IP) oxygen injection (O₂) system in order to remediate residual contaminants in the groundwater and in contaminated soils along the southern limits of the property. System IPs were installed to provide adequate coverage across the Site, as well as to provide concentrated oxygen delivery to the most heavily contaminated portion of the Site, along the south-central property line. The O₂ system was in operation throughout the period from June 2014 to September 2015. Monthly O₂ system O&M visits were conducted to ensure the system was operating at optimal levels. Copies of the O₂ system O&M log sheets are included with this report.

Groundwater samples were collected quarterly and analyzed for Volatile Organic Compounds (VOCs) via EPA Method 8260. Field parameters including dissolved oxygen content, oxidation-reduction potential, and conductivity were also recorded in order to optimize the remediation system operation. A total of five (5) groundwater sampling events were completed from September 2014 through September 2015.

Findings

Table 1 summarizes the dissolved oxygen (DO) concentrations in groundwater recorded from each monitoring well and IP during each of the sampling events. Table 2 illustrates VOC contaminant concentrations in groundwater throughout the sampling period. Elevated DO concentrations, ranging from 1.38 mg/L to greater than 40 mg/L were consistently observed from groundwater samples during each sampling event. The successful delivery of concentrated oxygen to the water table and subsequent enhanced bioremediation of VOC contaminants resulted in a 100% reduction in VOC contaminant concentrations in all on-Site monitoring wells. Elevated VOC concentrations continue to be detected at off-Site monitoring wells MW-8 and MW-9 indicating the well locations are outside the radius of influence of the O₂ system. Groundwater Contour Maps with VOC concentrations for each sampling event are included in this report. Graphical depictions of the reduction in VOC concentrations at all monitoring wells are also included with this report.

Conclusions

Based on the results of the groundwater quality evaluation, the City respectfully requests deactivation of the O₂ system and decommissioning of the on-Site monitoring wells. The City proposes to discontinue oxygen injection for a period of three (3) months, at which time, groundwater samples will be collected from all monitoring wells and analyzed for VOCs. If no contaminant "rebound" is exhibited, the City will remove the O₂ system components and decommission all on-Site monitoring wells and IPs in accordance with all appropriate protocols.

The City will continue to address off-Site contamination through in-situ chemical oxidation technology. The City will work with the adjacent property owner to obtain legal access to the western parking lot at 58 Scio Street. An array of injection points, or temporary Geoprobe points will be advanced in order to introduce a chemical oxidant into groundwater via slurry or slow release cylinder. Groundwater quality will be evaluated through subsequent sample analysis. Additional injections will be administered as necessary in order to reach regulatory cleanup objectives. Once cleanup objectives are reached, the City will decommission any remaining

monitoring wells and injection points and petition the NYSDEC for spill closure and/ or a certificate of completion. Lu Engineers is currently preparing an off-Site remedial action approach and cost estimate for the City, which will be forwarded to your office for review and comment upon completion.

Please review the enclosed documentation and contact me at your convenience at 585.428.7892 or via e-mail at forbesi@cityofrochester.gov with any comments or recommendations.

Sincerely,

Jane MH Forbes Environmental Specialist City of Rochester – DEQ

cc: File

Enclosures

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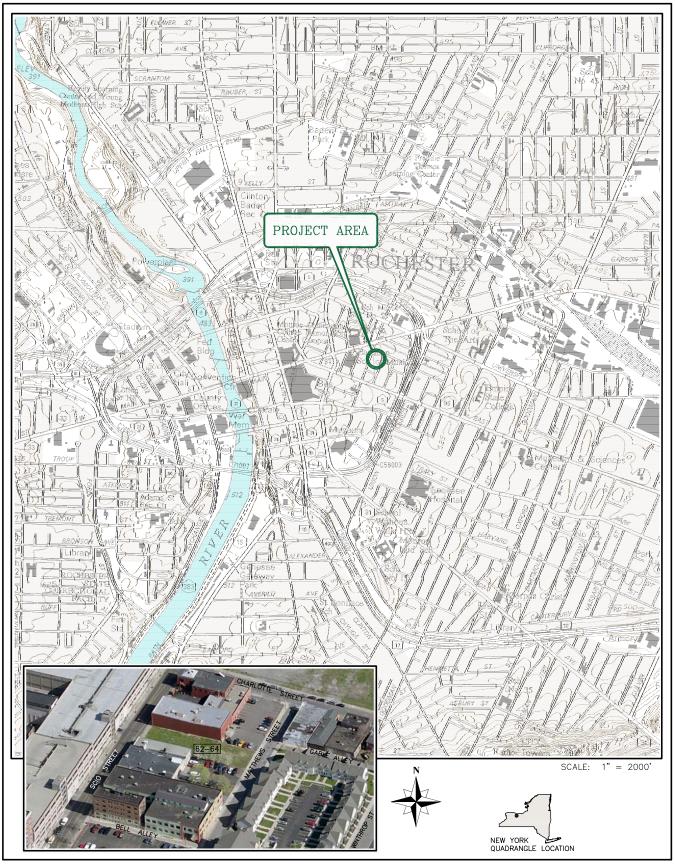




FIGURE 1. SITE LOCATION MAP

CITY OF ROCHESTER | BROWNFIELD SITE CLEAN-UP 62-64 SCIO STREET

ROCHESTER - MONROE COUNTY - NEW YORK

DATE:	JANUARY 2012
SCALE:	1: 24,000
DRAWN BY:	DLS

MAP_SOURCE: NYS DOT RASTER QUADRANGLES — ROCHESTER WEST & ROCHESTER EAST / NEW YORK, MONROE COUNTY DOT EDITION DATE: 1997 / USGS CONTOUR DATA: 1971. 2009 MICROSOFT CORPORATION, 2009 NAYTEQ AND 2009 PICTOMETRY INTERNATIONAL CORP.

Table 162-64 Scio Street
Dissolved Oxygen Comparison

			Sample Date		
IP ID:	9/18/2014	12/22/2014	3/31/2015	6/16/2015	9/23/2015
IP1	44.93	NS	29.77	30.27	20.05
IP2	28.56	NS	25.40	23.93	6.38
IP3	6.81	35.51	14.00	28.47	3.19
IP4	18.61	35.90	27.71	30.27	20.30
IP5	22.66	29.77	27.43	24.82	23.69
IP6	22.33	20.04	25.44	16.59	19.76
IP7	22.01	20.30	17.14	17.53	15.52
IP8	11.97	20.01	14.62	14.09	5.12
IP9	35.19	23.15	26.29	22.28	6.03
IP10	3.52	2.57	12.34	6.98	2.66
IP11	37.02	8.70	25.23	26.51	20.20
IP12	40.06	33.22	29.63	7.65	16.99
IP13	45.00	27.20	26.91	28.40	20.99
IP14	38.63	27.46	29.87	26.88	5.22
IP15	12.63	14.49	20.06	17.21	1.38
IP16	17.81	25.17	14.70	13.64	13.45
MW-02	4.63	13.81	12.34	16.17	13.45
MW-04 (former MW-03)	3.70	20.40	17.54	18.52	15.02
MW-05	0.27	NS	19.41	12.85	7.99
MW-06 (former MW-01)	0.11	10.70	9.41	7.22	2.86
MW-07	1.47	7.08	16.59	8.55	9.30
MW-08	0.06	3.55	7.70	1.50	1.26
MW-09	0.06	5.39	11.48	1.75	2.12

NS=Not Sampled
DO results are reported in mg/L

Table 2

62-64 Scio Street BCP Site

City of Rochester

Quarterly Groundwater Sampling Results September 2015

Groundwater Results - VOCs

	NYS GW			MV	V-02						MW-0	4 (Former N	/IW-03)					MV	V-05					MW-0	6 (Fomer M\	W-01)		
Detected Parameters ¹	Std ²																											
		May-07³	Aug-13	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	May-07³	Aug-13	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	Aug-13	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	May-07³	Aug-13	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15
1,2,4-Trimethylbenzene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	1,210	5.71	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	156	10.2	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
1,3,5-Trimethylbenzene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	249	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Benzene	1	< 0.700	< 0.700	< 0.700	< 0.700	< 0.700	< 0.700	< 1.00	1,660	7.36	0.409	< 0.700	0.846	< 0.700	< 1.00	< 0.700	< 0.700	NS	< 0.700	< 0.700	< 1.00	24.1	< 0.700	< 0.700	< 0.700	< 0.700	< 0.700	< 1.00
Ethylbenzene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	1,530	26	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	385	5.42	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Isopropylbenzene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	80	4.78	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	38.3	1.93	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
m/p-Xylenes	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	4,876	< 2.00	< 2.00	< 2.00	2.91	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	231.4	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Methyl-Tert-Butyl Ether	10	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Naphthalene	10	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	438	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	NS	< 5.00	< 5.00	< 5.00	< 2.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
n-Butylbenzene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	1.54	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	< 2.00	2.61	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
n-Propylbenzene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	154	6.02	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	95	1.13	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
o-Xylene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
p-Isopropyltoluene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
sec-Butylbenzene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
tert-Butylbenzene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Toluene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	1,260	2.07	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	31.4	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00

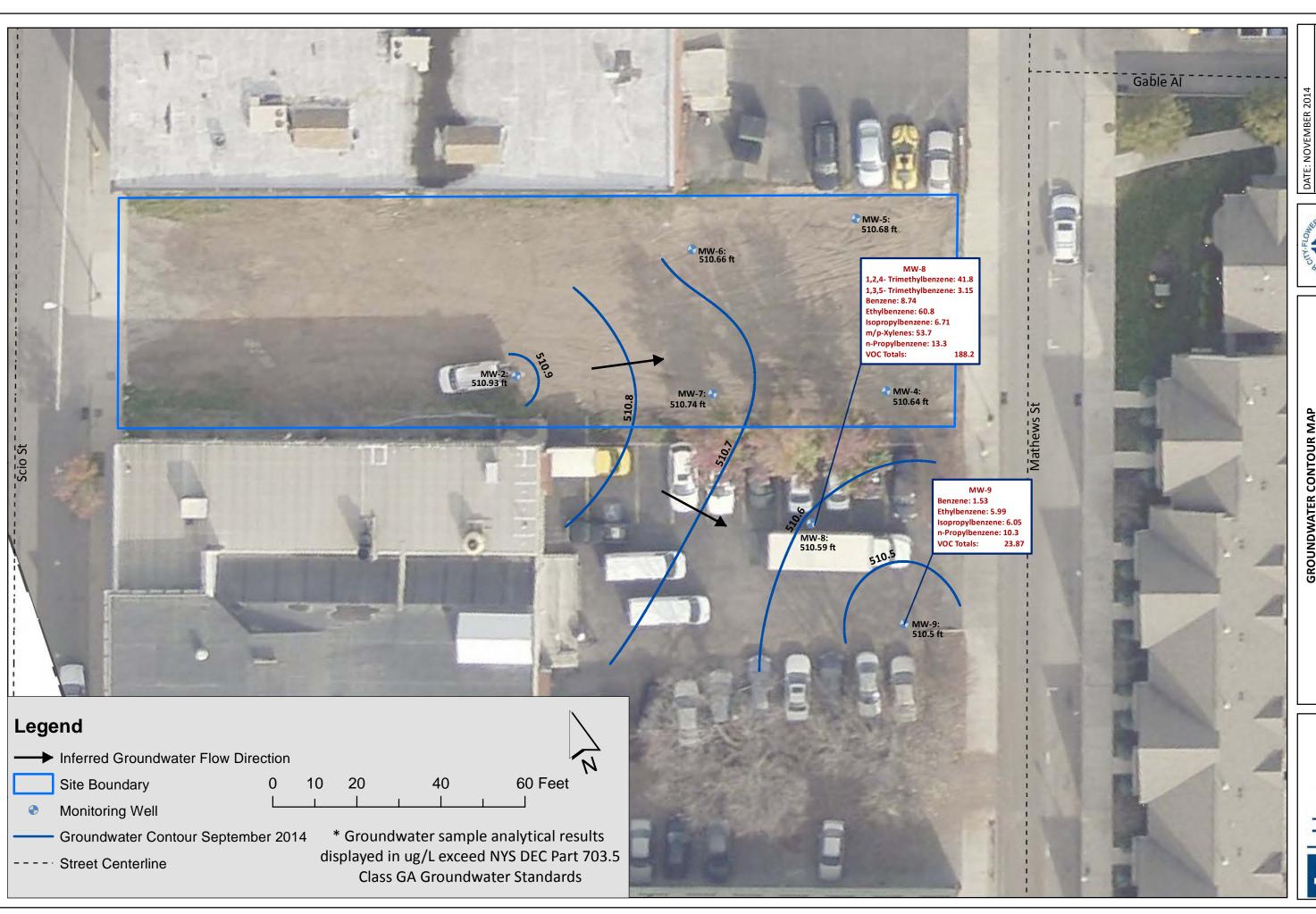
	NYS GW			MW	<i>1</i> -07					MW	/-08					MV	V- 0 9		
Detected Parameters ¹	Std ²																		
		Aug-13	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	Aug-13	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	Aug-13	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15
1,2,4-Trimethylbenzene	5	163	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	97.5	41.8	118	549	400	848	2.00	< 2.00	< 2.00	4.40	< 2.00	< 2.00
1,3,5-Trimethylbenzene	5	29.1	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	21.8	3.15	13.6	116	64.4	115	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Benzene	1	9.41	< 0.700	< 0.700	< 0.700	< 0.700	< 1.00	60.4	8.74	25.4	47.0	35.7	39.1	4.11	1.53	1.75	1.80	1.68	1.20
Ethylbenzene	5	216	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	207	60.8	163	677	568	1,060	15.1	5.99	7.88	9.74	< 2.00	< 2.00
Isopropylbenzene	5	24.7	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	20.7	6.71	16.2	36.2	29.9	62.4	2.83	6.05	4.52	2.24	< 2.00	< 2.00
m/p-Xylenes	5	510	< 2.00	6.01	< 2.00	5.36	< 2.00	248	53.7	182	1420	952	1,400	11.4	1.02	2.34	10.7	< 2.00	< 2.00
Methyl-Tert-Butyl Ether	10	< 20.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 20.0	< 2.00	<4.00	< 20.0	< 20.0	< 20.0	< 2.00	< 2.00	<2.00	< 2.00	< 2.00	< 2.00
Naphthalene	10	142	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	60	9.24	38.1	182	139	266	11.7	< 5.00	< 5.00	5.43	< 5.00	< 5.00
n-Butylbenzene	5	< 20.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 20.0	1.59	5.89	< 20.0	< 20.0	< 20.0	< 2.00	1.38	<2.00	< 2.00	< 2.00	< 2.00
n-Propylbenzene	5	55	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	38.6	13.3	32.4	82.2	75.3	155	4.93	10.3	10.3	2.94	2.04	< 2.00
o-Xylene	5	74.5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	16	4.21	16.8	78.2	46.2	52.2	2.14	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
p-Isopropyltoluene	5	< 20.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 20.0	< 2.00	<4.00	< 20.0	< 20.0	< 20.0	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
sec-Butylbenzene	5	< 20.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 20.0	< 2.00	<4.00	< 20.0	< 20.0	< 20.0	< 2.00	1.51	< 2.00	< 2.00	< 2.00	< 2.00
tert-Butylbenzene	5	< 20.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 20.0	< 2.00	<4.00	< 20.0	< 20.0	< 20.0	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Toluene	5	36.2	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	23.9	4.9	17	94.0	70.1	95.6	3.18	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00

BOLD parameter detected above NYS Ambient Groundwater Standard or applicable NYSDEC Guidance Value 1 - Results presentend in ug/L or parts per billion (ppb)

NS = Not Sampled

²⁻ NYS Ambient Groundwater Standard

³⁻ May 2007 groundwater data shown for trend analysis comparison



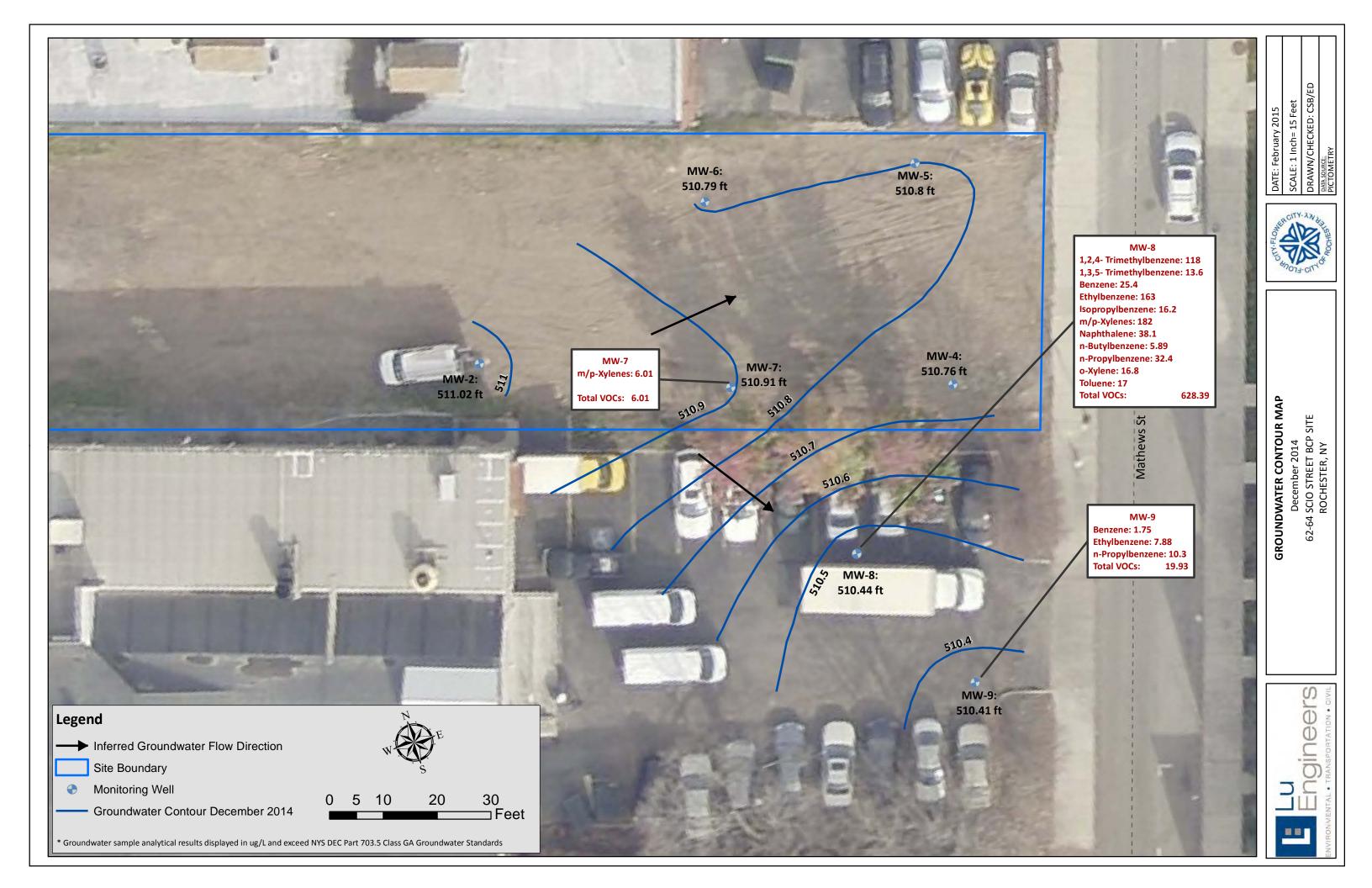
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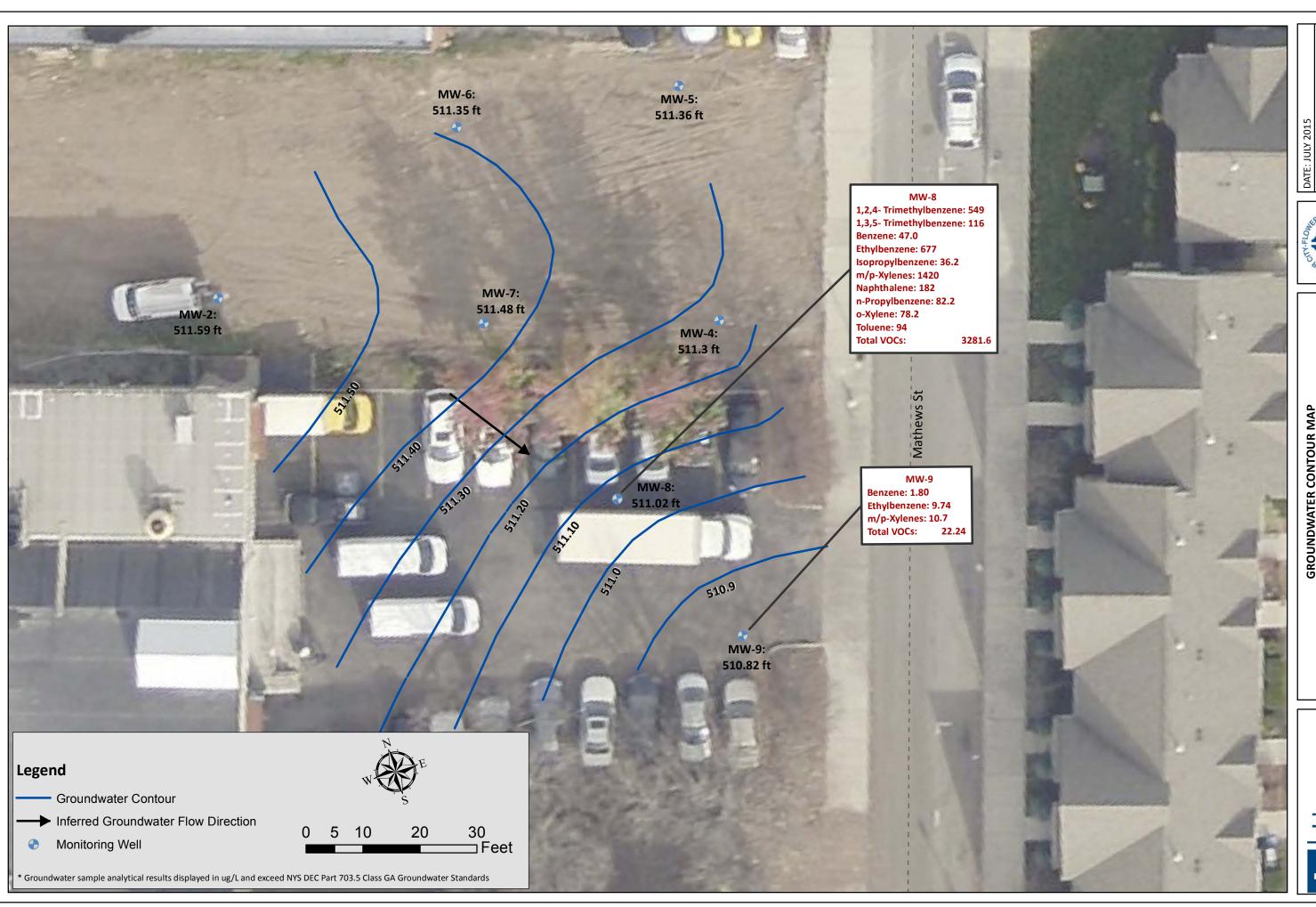


GROUNDWATER CONTOUR MAP

SEPTEMBER 2014 62-64 SCIO STREET BCP SITE ROCHESTER, NY





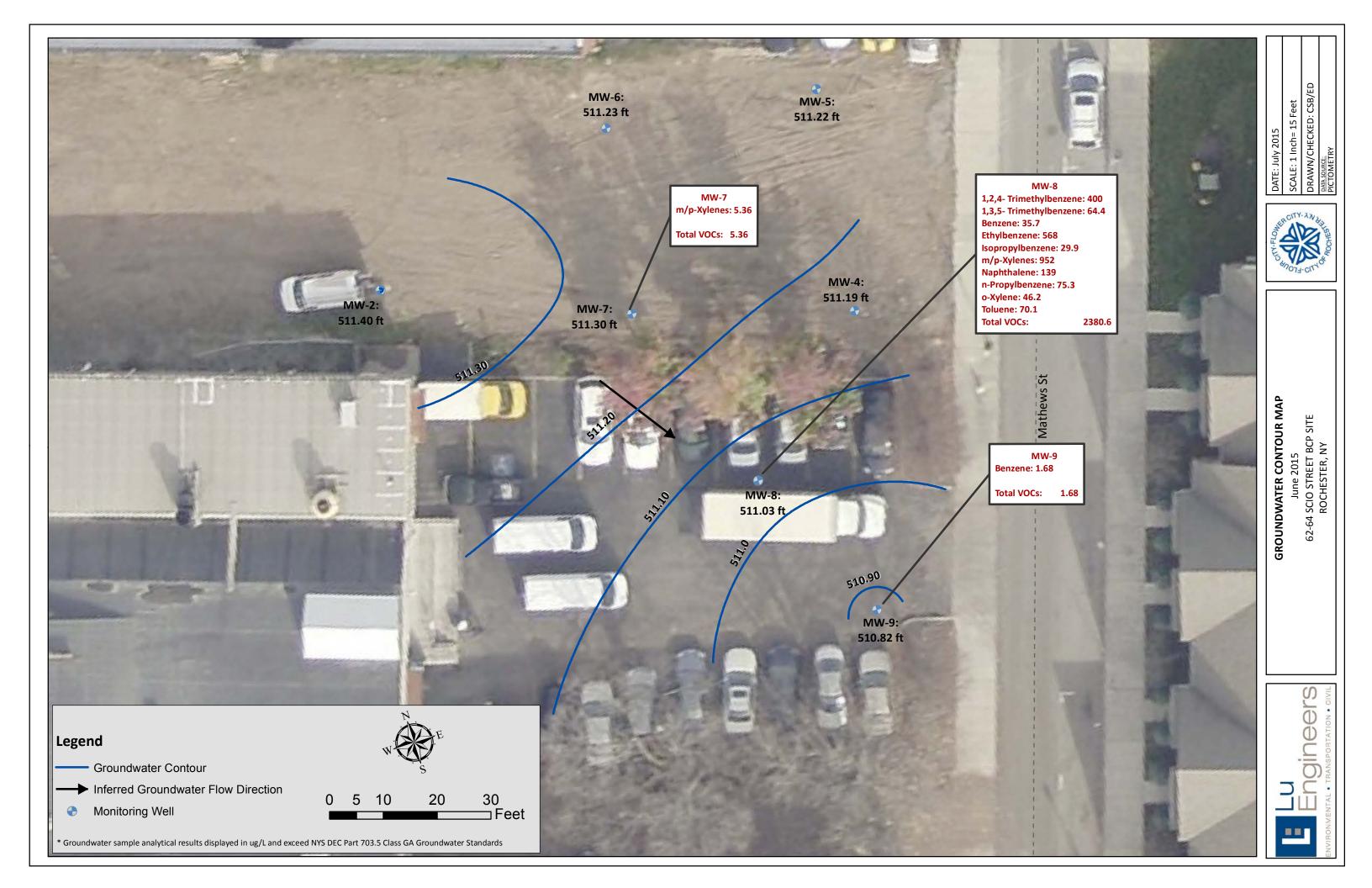


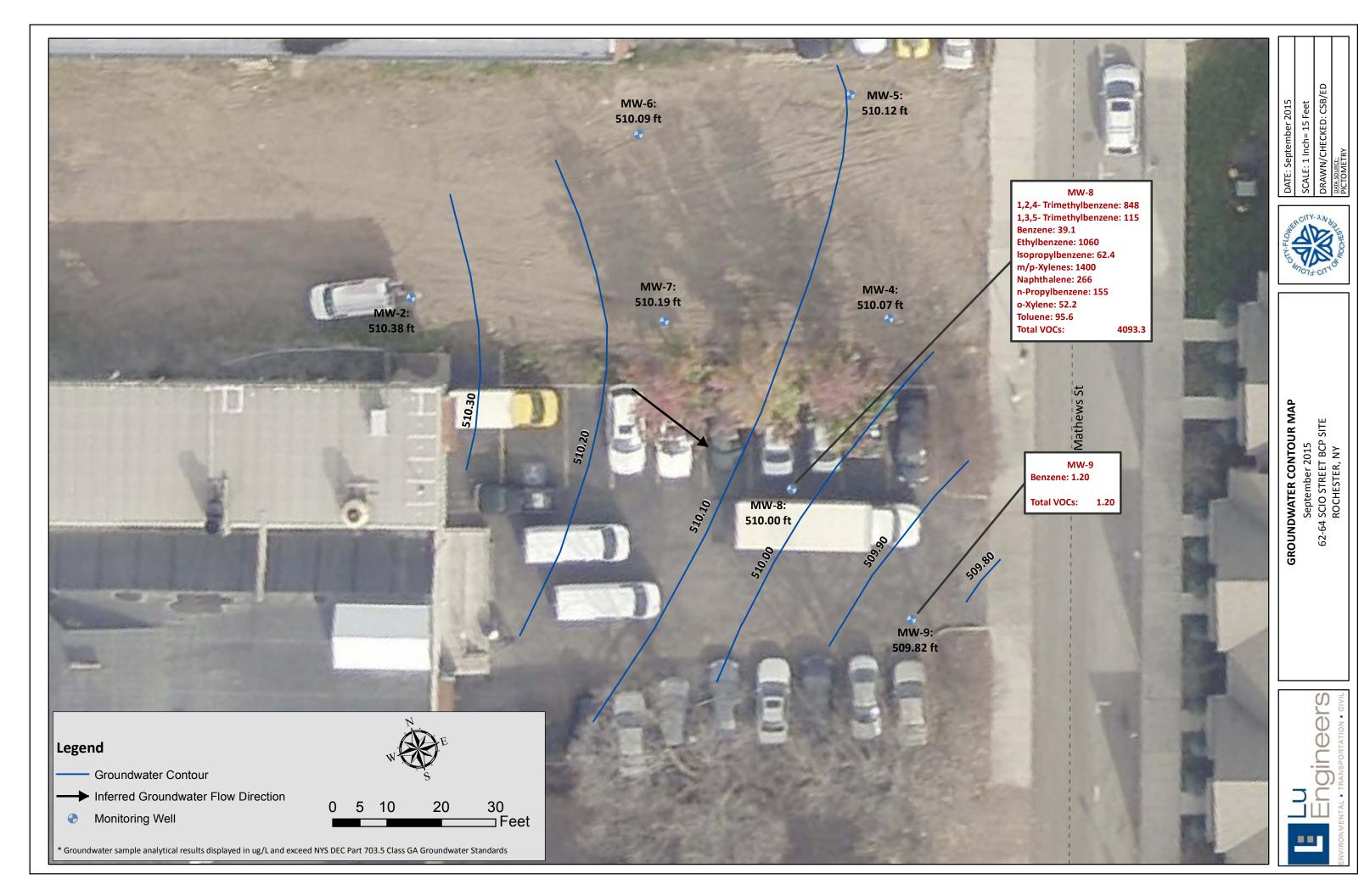
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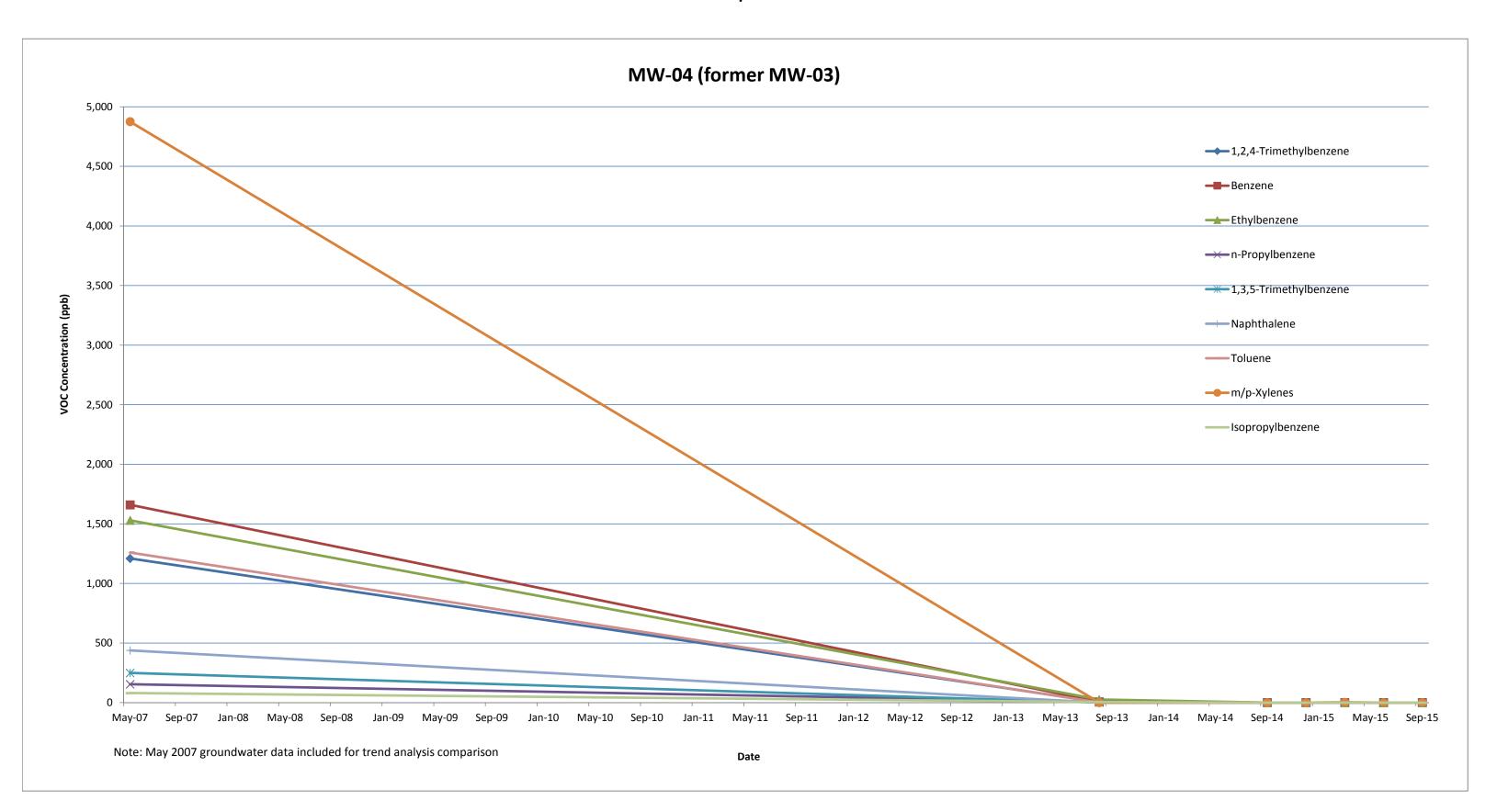
GROUNDWATER CONTOUR MAP

March 2015 62-64 SCIO STREET BCP SITE ROCHESTER, NY

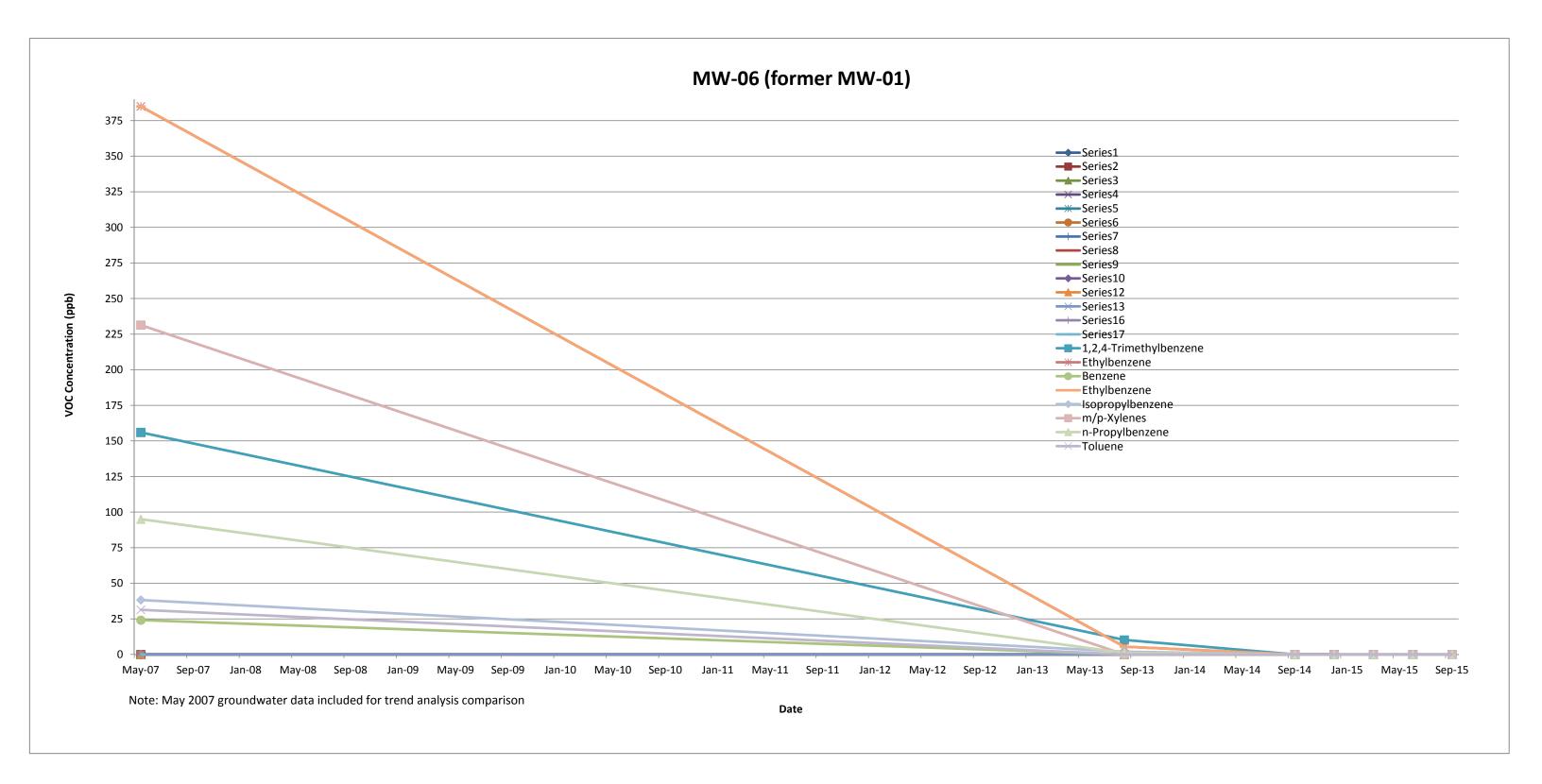




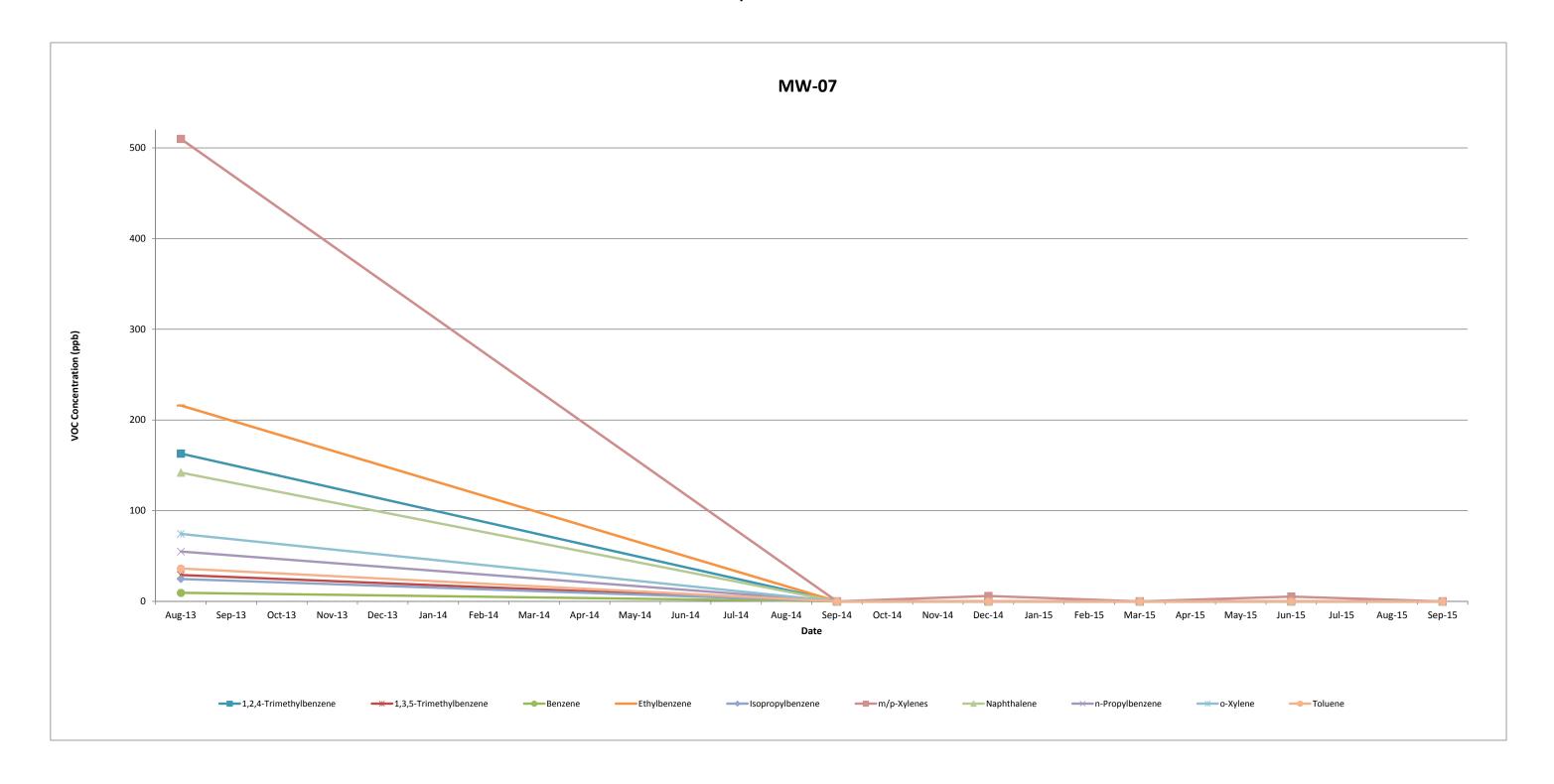
62-64 Scio Street BCP Site City of Rochester Quarterly Groundwater Sampling Results Comparison



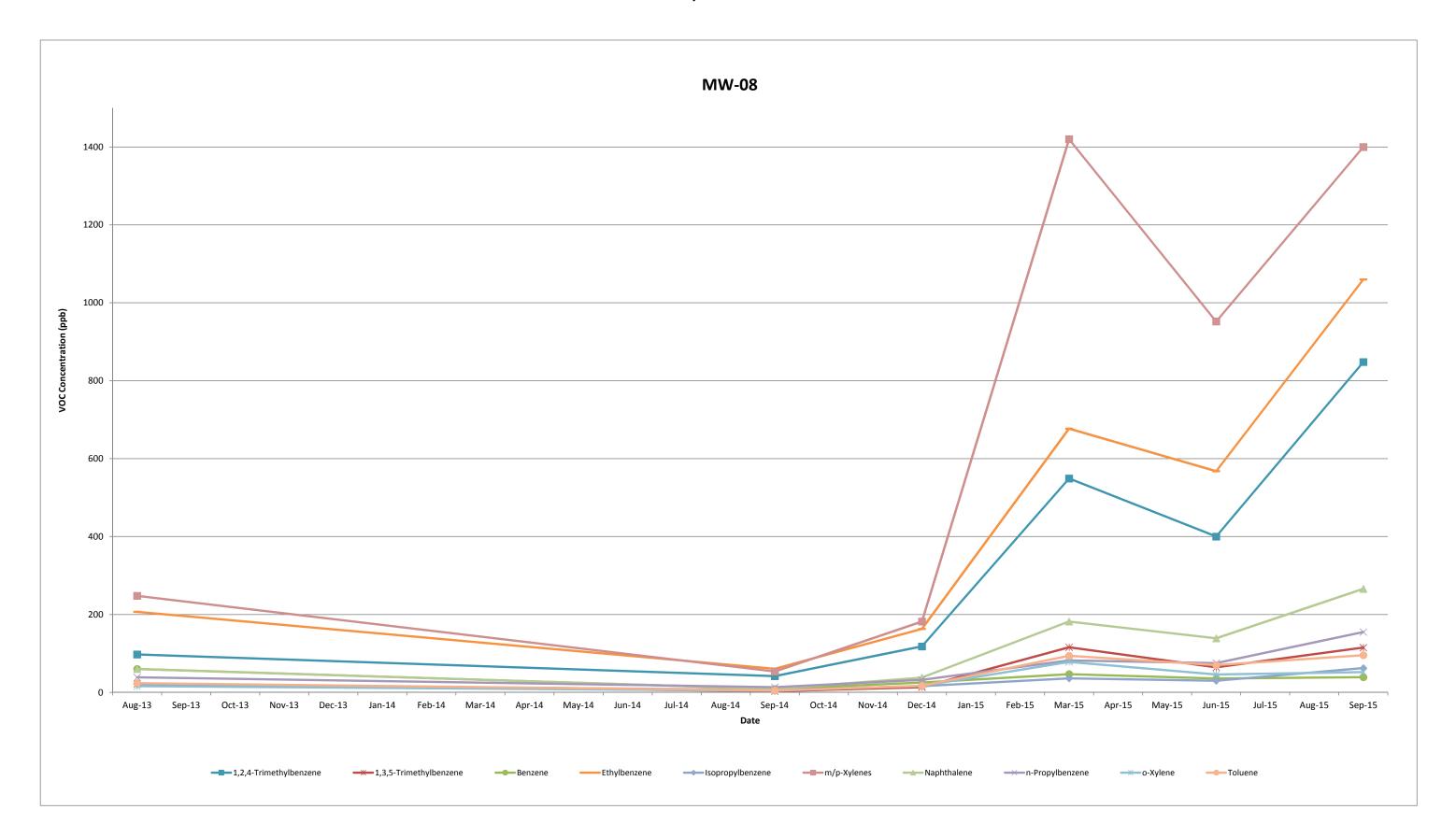
62-64 Scio Street BCP Site City of Rochester Quarterly Groundwater Sampling Results Comparison



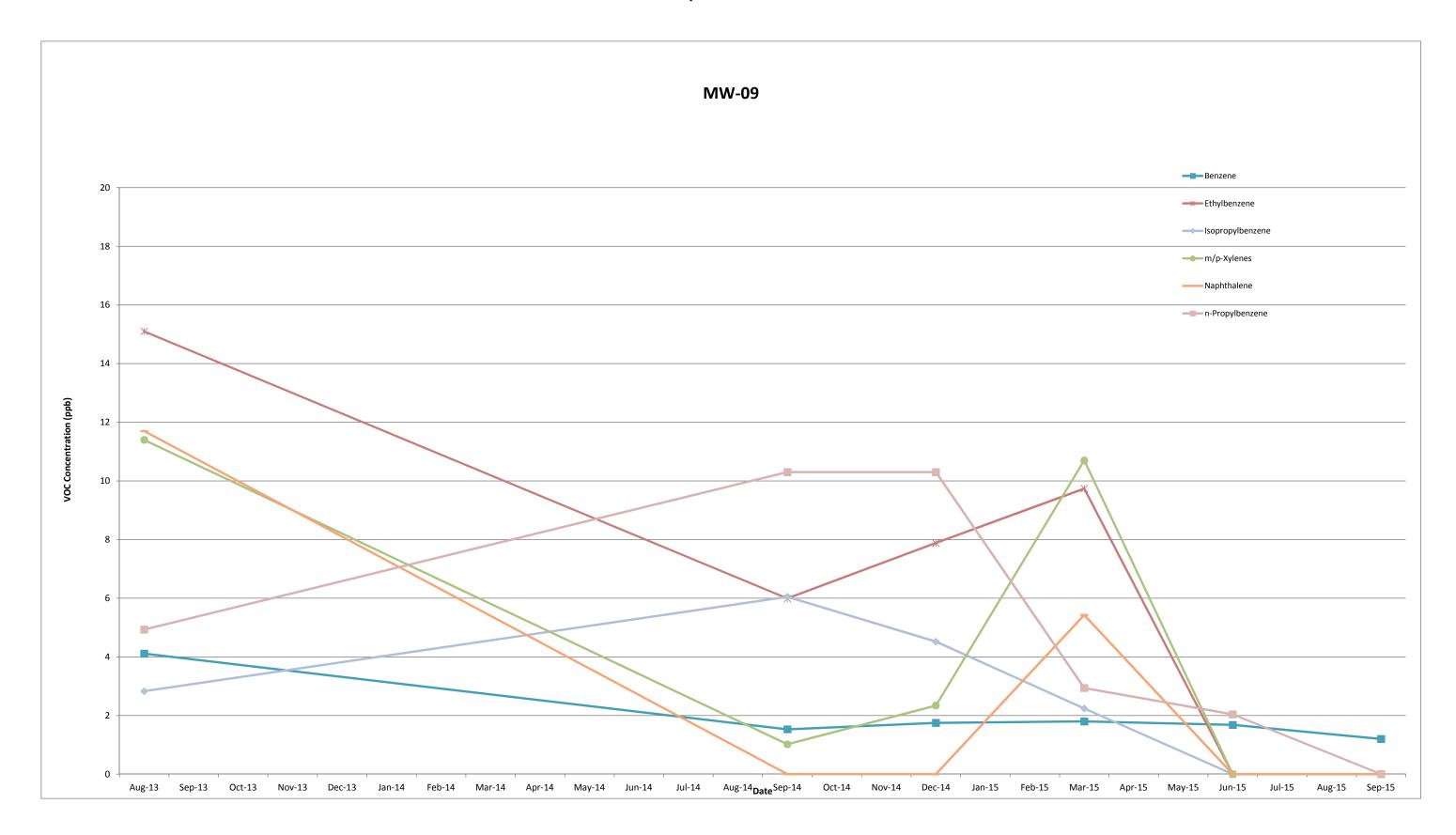
62-64 Scio Street BCP Site City of Rochester Quarterly Groundwater Sampling Results September 2015



62-64 Scio Street BCP Site City of Rochester Quarterly Groundwater Sampling Results September 2015



62-64 Scio Street BCP Site City of Rochester Quarterly Groundwater Sampling Results September 2015





		0942		Field Samp	Sample ID le Time	MW	-6 12:07	Sa	mpling Event #
SAMPL	ING NOTE	<u>es</u>							
Final De Screen I Total Vo [purge volu	epth to Wat Length olume Purg Ime (milliliter Water in casi	geds per minute) > ng - 2" diamet	feet feet gall time duration	Well Pumpons PID V (minutes) x 0 ons per foot o	Intake De Well Head 0.00026 gal/mi	pthilliliter] ameter = 0.655	fee	<u>t</u> W	ell Diameter 2" ell Integrity: Cap Casing Locked Collar
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp.	pH (units)	Dissolved	Turbidity	Cond.	ORP	C .
Time	8.64		(deg. C)	6.82	02 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments
11:25		250 ml 250ml	16.8	6.82	0.23	12.3		-68,9	
11.36		251	16.8	6.90	0.21	7.56	1,48	-89.Z -92.0	
	8.61	251	16.9	6.90	0.22	6.58	1.47	-92.2	
11:40		251	16.9	6.91	0.19	5.72	1.46	-928	
	8.63	251	16.8	6.91	0.16	4.62	1.46	-94.4	
	8.62	251	110.8	6.89	0.17	3.75	1.46	-94.2	
100	8.62	252	16.9	6 90	0.12	2.82	146	-95.3	
	8 60	252	16,8	6.91	0.11	3.02	1.46	-95.7	
1.	8.61	250	16.9	6.91	0.11	2.38	1.45	-96.1	
10.00	5.01	030	10:1	4. 11	0111	2108	1.72	76.1	
		ervations: _er Containe		04. M	0001				
EQUIPN	MENT DO	<u>CUMENTA</u>	TION						
Type of	Tubing:	4" HDPE ality Meter		-22; LaMo	otte 2020		Calibra	ated: <u>Ye</u> J	·
ANALY Paramet VOCs	<u>er</u> <u>Vol</u>	RAMETEI umes 40 ml	Sample Co	ollected OAs		<u>LO</u>	CATION N	NOTES	
					= = 1				1.110
Signatur Checked		م	De la company de	S JIII	_	- 10		U III	

Lu Engineers ENVIRONMENTAL TRANSPORTATION CIVIL

Location	ı ID	62 Lay 5	COST	Field Samp	Sample ID	- My	7	_ Sa	ampling Event # ate _ 9 / 18/14
SAMPL	ING NOTI	<u>ES</u>							
Final De Screen I Total Vo [purge volu	epth to Wa Length olume Purg lime (milliliter Water in casi	ged ~ Sper minute) > ng - 2" diamet	feet feet gall time duration	Well Pump Ons PID V	0.00026 gal/m	epthilliliter]	3 fee	<u>t</u> W	Vell Diameter 2 " Vell Integrity: Cap Good Casing Locked Collar
Time	Depth to	Purge Rate	Temp.	рН	Dissolved	Turbidity	Cond.	ORP	
Time	Water (ft)	(ml/min)	(deg. C)	(units) 7.10	02 (mg/L)	(NTU) 4.38	(mS/cm)	(mV)	Comments
	8.68	100ml	17.6	7.12	0-12	3.22	1.76	-1343	
1:00	0.	149m1	17.3	7.15	0.11	3.04	1.76	- 138.7	
1:65	8.63	150ml	17.)	7.1.3	0.26	4.29	1.83	-142.5	
1:10		150ml	17.4	7.13	0-11	5.64	1.81	- 143,9	
	8.63	Pumped	16.8	87.14	0.05	4.29	1.78	-148.6	
	8.71	250	17,3	7.15	0.26	2.57	_	131.3	tubing got aught
130	8.80	250	17.3	7.12	0.08	2.81	1.78	-142.0	J o swow
1:35	8.83	250	17.2	7.10	0.06	2.50	1.80	- 146 4	
1416	8.81	250	17.2	7.07	0.08	6.11	1,87	- 150.7	
1:45	8.83	250	17. 2	7.06	0.06	7:84	1.86	-153-5	
) Ol	4:		16.4 1 4	1.0				
1 E	rurge Obse	ervations: _	spulls 11	LC TAV	(Plom	ass) pu	mp kee	PS 570	ppmg
	urge wate	or Containe	112cu						
Type of	Pump: <u>le</u>	ristal.							
	Tubing:! Water Qua	ality Meter	Horiba U	-22; LaMo	otte 2020		Calibr	ated: Ye	28
ANALY Paramet		RAMETEI umes	RS Sample Co	ollected		LO	CATION I	NOTES	
VOCs	3 x	40 ml	×2 ve	M-S	_				
	· · ·					<u></u>			
								<u> </u>	
Signatur Checked		~ /	M	MA				- Ц	



Location ID LOCATION ST.	Field	Sample ID	Mis	~		mpling Event #
Activity Time \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Samp	Sample ID le Time	141	0	Da	ite 91.814
SAMPLING NOTES						X.
[purge volume (milliliters per minute) x time duration (milliliters per minute	Well Pump PID V inutes) x (per foot o		pthlliliter] nmeter = 0.65	feet	<u>.</u>	ell Diameterell Integrity: Cap Casing Locked Collar
Time Depth to Purge Rate Temp. (deg. C) (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
0 0 0 0 0 0 0	h04	1.(01	34.91.	52199	-19.9	Comments
1316 8.38 250 169 =	7.04	2.21	12.2	(.52	-18.9	
1321 8.37 250 17.0 7	2.03	2.10	7.2	1.53	-41.8	
1326 8.37 250 17.1	703	206	4.87	1.54	-41.9	
1331 8.36 200 17.1	1.03	2.00	5.08	1-53	-39.9	
1336 8.36 250 17.1 T	t.0)_	1,68	2.08	1.54	-47.6	
	-CO-E	1,74	1.26	1.53	-410	
1346 8.36 250 17.1	7.02	1.72	1.19	1.52	-37.7	
1351 8.36 250 17.2 -	1.01	1.58	1.09	1.52	-404	
1401 8.36 250 17.1	7.01	1.79	Dilel		-380	
1404 8137 250 17-1	701	1.47	0.44	1.53	-422	//
Purge Observations:	.51 is	LA DE				
	3/1	The free				
EQUIPMENT DOCUMENTATION						
Type of Pump: 1/4" HDPE Type of Water Quality Meter: Horiba U-22:	; LaMo	tte 2020		Calibra	ated:	É
ANALYTICAL PARAMETERS	. 1		LO	CATION N	OTES	
Parameter Volumes Sample Colle VOCs 3 x 40 ml × 2 ∨ ∞ x 5						
		_		·		
		_				
	3-					
Signature:Checked By:		_				



Project 1	NameS	co s	<u> </u>					Jo	b#_42210
		2-64 5		Field	Sample II	Ma	-9_		mpling Event#
		0959		Samp	le Time _	2:4:	-9 5 pm	Da	ate 9/18/14
SAMPL	ING NOTE	ES					•		, , ,
Final De Screen I Total Vo [purge volu Volume of	epth to War Length olume Purg ume (milliliter Water in casi	ged <u>~3</u> s per minute) >	99 feet feet	Well Pump ons PID V (minutes) x (Depth Intake De Well Head 0.00026 gal/m	illiliter]	fee	<u>t</u> W	Yell Diameter 2 " Yell Integrity: Cap 4000 Casing Locked Collar
<u>PURGE</u>	DATA								
T.'	Depth to	Purge Rate	Temp.	рН	Dissolved	Turbidity	Cond.	ORP	
2.08	Water (ft)	(m1/min) 250	(deg. C)	(units) 7. 23	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments
2:13	8.02	250	16.8		0.22	1.46	1.70	-116.6	
2:19	7-98	250	16.8	7.26 7.26		1.58	1.07	-129	
2:25	7.99	250	14.9	7.26	0.08	0,91	1,60	AZONA.	-138.1
2:30	7.99	250	16.8	7.26		1.54	1.61	- 139.4	
2:35	7,99	250	16.8	7.26		1.61		-141.2	
2:40	8.00	250	16.8	7.26		0.95	1.68	-141.0	
2:45	0.00	200	10.2	1,20	0.00	1	, , , ,	11110	
0.10									
				-					
I	Purge Obse	rvations: _	Cu	oudy	, 10	ods			
F	Purge Wate	er Containe	rized:						
FOITE	AENT DOA	CTIMETATE A	TION						
EQUIPA	MENT DO	<u>CUMENTA</u>	ITION						
Type of	Pump:	Devis	talhe						
	Tubing:								
Type of	Water Qua	ality Meter	: <u>Horiba U</u> -	22; LaMo	otte 2020		Calibra	ated: <u> </u>	28
								į.	
		RAMETE		11 . 1		LO	CATION N	<u>NOTES</u>	
Paramet		umes	Sample Co			_			
<u>VOCs</u>	3 X	40 ml	7	NOYFS	_				
	Ш						-		
				_		3			
~:									
Signatur	re:								= =
CHECKEC	⊥ Бу								



Location	ID <u>62</u>	40 S		Field	Sample ID	Mw	-4		npling Event #
Activity 7	Γime	1055		Samp	le Time	152	0	Da	te gurly
SAMPLI	NG NOTE	<u>ES</u>							
Final Dep Screen Le Total Vol [purge volume	oth to Watength	ged	feet feet gall time duration er = 0.163 gall	Well Pump ons PID V (minutes) x Cons per foot c	Well Head . 0.00026 gal/mi of depth, 4" dia	pthlliliter] ameter = 0.653	3 gallons per fo	We	ell Diameter 2 1 Cap Casing Locked Collar Collar
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1422	7.40	250	16.6	7.20	6.105	4.22	0.93	25.1	
1427	7.40	250	16-8	7.18	5.92	2.04	0.94	249	
1432	7.40	250	16.7	7.18	5.57	3.75	0.95	24.8	
1437	7.40	250	14.7	7.17	4.21	2.25	0.97	7.8	
1442		250	16.7	7.17	3.99	1,98	097	0.9	
1447	7.40	250	16.7	7.17	3.84	1,40	0.97	0.6	
1452	7.40	250	16.7	7.17	5.45	1.13	0.98	75.1	
145	7.40	250	14.7	7.17	3.42	80.1	0.98	-6.7	
1502	7.40	250 250	14.3	7.17	3.65	1.00	0,98	-99	
1507	7.40	250	110-+	7.17	3.71	08.0	0.98	-10.3	
1517	740	250	16.7	7.17	3.40	0.99	0.99	- 14 0	
Pı	urge Obse	ervations:	T	While	ho			17.0	
Pı	urge Wate	er Containe	rized:	NA					<u>. 200</u>
		CUMENTA		// -					
Type of 7	Tubing:!	MAN HDPE		22; LaMo	otte 2020		Calibra	nted: <u>Y</u>	'S
ANALYT Paramete VOCs	<u>r</u> Vol	RAMETEI umes 40 ml	Sample Co		_	<u>LO</u>	CATION N	OTES	
- %									
VVX	101070					-			
Signature Checked		Gi	nt	24	-				



Location	ID 6	SC10 S 2-64 S 10950	GOST	Field Samp	Sample ID le Time	1130		Sar	# 4224 npling Event # te _ 9/18/14
SAMPLI	NG NOTI	<u>es</u>				e msi	120		
Final Dep Screen La Total Vo [purge volume]	pth to Warength lume Purg me (milliliter Water in casin	ged	feet feet gall time duration	Well Pump ons PID V (minutes) x (0.00026 gal/mi	epthilliliter] ameter = 0.653	7)feet	<u>t</u> W€	ell Diameter 2 11 ell Integrity: Cap Cool Casing Locked Collar
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1030	7.01	250	17.3	7.04	1.38	12.9	1.57	-18.5	
1035	7.01	250	17.5	7.05	1.35	7.41	1.50	-219	
1040	7.01	250	17.5	7.06	1.19	5.27	149	_ 24.3	
1045	401	250	17.6		1.12	3.89	1.44	-24.8	
1050	1.01	250	17.6	£.10		2.5H.	1.42	-3216	
1055	7.01	250	17.1	713	0.48	1.92	1.42	144.2	
1100	7.04	250	12 2	1.17	0.43	1.20	1.42	-45.9	
110>	7.01	250	17.7	7.13	0.27	114	1 41	-59	
1110	7.0	201	(, , ,	1.1.7	0.01	1.19	1:-11	32.1	
P	urge Obse	ervations: _ er Containe	<u> </u>	way,	NO 000	DR.	C TO THE PARTY		- 300000000 PR - 3000 - 0000
P	urge Wate	er Containe	rized:	P/A					
		CUMENTA							
		Vensta "4" HDPE	THE						
• 4		ality Meter:	Horiba U-	22; LaMo	otte 2020		Calibra	ated:y	G
		RAMETE				LO	CATION N	OTES	
Paramete		umes	Sample Co	llected					
VOCs	3 X	40 ml	VOAS	2 (1730	.				
			V - 17.5						
			F(40) 1 1 4				····		
Signature		ler	A						

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	Vame							Jo	b#_ 4226
Location	ID <u>6</u>	2-64 SC	10	Field	Sample ID	MW	- 2	Sa	mpling Event #
Activity	Time	0929	, 1918	Samp	le Time	aga	-2 9 1230	Da	ate 9/18/14
SAMPLI	NG NOTI	<u>ES</u>				reyno	Dup		
Final De Screen L Total Vo [purge volu	pth to Warength	ter 1. ged 7 s per minute) x ng - 2" diamete	feet feet feet gall time duration	Well Pump ons PID V (minutes) x 0	Well Head 0.00026 gal/m	pth	(feet	W	ell Diameter2 '' ell Integrity:
TP:	Depth to	Purge Rate	Temp.	рН	Dissolved	Turbidity	Cond.	ORP	
Time	Water (ft)	(ml/min)	(deg. C)	(units)	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments
1148	11.30	250	166	7.18	7.54	2.3	0.81	59.1	
1153		250	16.6	7.16	6.79	9.99	12.6	65.3	
1128	11-64	250	(6.6	7-16	5.93	7.23	0.81	69.3	
1203	<u>کم) ، ۱۱ .</u>	250	16.6	7.16	5.54	4.98	0.81	739	
1208	11.65	250	16.6	3-16	5.17	3.59	0.81	76.6	
1213	11.100	250	166	+.17	4.92		0.82	79.2	
1218	63.0		16.6	7.16	4.76				
1223			6.6	7.16	4.67		0.83	83.6	
1223	11.65	250	16.6	7-16	4.43	1.50	0.84	83.9	
p	urge Ohse	ervations: _	CIC	N 1011		~~1			
P	urge Wate	er Containe	rized:	NIZA			15	<u> </u>	
		CUMENTA		N/A				Al 10	
Type of	Tubing:	4" HDPE ality Meter:		-22; LaMo	otte 2020		Calibra	ated:	28
ANALY Paramete VOCs	er Vol	RAMETEI lumes 40 ml	Sample Co	ollected Bline	LDUP .	<u>LO</u>	CATION N	OTES	
U		1982	***	1	_				
Signatur Checked		n	~	4	_				



Project 1	Name <u>Sci</u>	o St BCP S	ite					Job	#_4226
Location	n ID	MW-2		Field	Sample II	MW-2_	12-22-11	<u>∤</u> ∥ San	npling Event # 0 2
Activity	Time	1121		Samp	ple Time _	1129	12-22-14	_ Dat	te 12/22/14
SAMPL	ING NOT	<u>ES</u>							,
Initial D	enth to W	ater 11.0	8 fee	Meas	surement P	oint TO	D -	Wo	ell Diameter 2!
Final Da	enth to Wa	ater	foor		Donth	15 27	for	_ WE	Il Intomiteu
Screen I	enath	ater	foo	u Dumi	n Intoka De	onth	fee	<u>st</u> vv e	ell Integrity: Cap oK
Total W	oluma Dur	ged va	100	r DID	Wall Wash	-pui		-	
		rs per minute)	gai	ions FID	well nead		пп	_	Casing or
		ing – 2" diamet					2 malloma man (Cook of Joseph	Locked V Collar OK
PURGE		mg – 2 diamet	ei – 0.103 gai	ions per 100t	or depth, 4 di	iameter – 0.63	3 ganons per	toot or depth	Collar _ DR
	Depth to	Purge Rate	Temp.	рН	Dissolved	Turbidity	Cond.	ORP	
Time	Water (ft)	(ml/min)	(deg. C)	(units)	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments
1129	11.08	bailer	11.0	7.30	13.81	189	0.89	92.6	
	=						Π Π		
	5 2	N2 F1		П					
							3 5 7 11		71 S
							:		
11	1.5								-
J	Purge Obs	ervations: _							II II
ш	Purge Wat	er Containe	erized:	NO-per	- NYSDEC			 .	
EQUIP	MENT DO	CUMENTA	TION						
_									
	_	A – sample	by bailer						
	Tubing:_				<u> </u>				
Type of	Water Qu	ality Meter	: YSI Pro I	Plus, LaM	otte 2020		Calibr	ated:	
ANALY	TICAL PA	ARAMETE	RS			LO	CATION I	NOTES	
Paramet	er Vo	lumes	Sample C	ollected			25	alam F	
VOCs	2 x	40 ml	yes		-	- A		2	
						14	Te' T		
							35		
						_	120		=======================================
G :									
						_		ės —	
CHOOKE	برسہ								

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Project N	Name Scie	St BCP S	ite	Job # 4226							
		1W-4		Field	Sample ID	MW-4_1	2-22-14	San	npling Event #		
Activity '	Time	230		Samp	Sample ID le Time _	1242		_ Dat	e 12-22-2014		
<u>SAMPLI</u>	NG NOTI	<u>es</u>									
Initial De	epth to Wa	ater <u>7.</u>	24 fee:	t Meas	urement Po	oint TO	R	We	ll Diameter 211		
Final De	pth to Wa	ter	fee	t Well	Depth	15.05	fee	t We	Il Integrity:		
Screen L	ength	ter	fee	<u>t</u> Pump	Intake De	pth	NA		Cap OK		
Total Vo	lume Purg	ged <u>~3.8</u>	gal	lons PID V	Well Head		VA	_	Casing OK		
[purge volu	me (milliliter	s per minute) x	time duration	(minutes) x (0.00026 gal/mi	illiliter]			Casing OK Locked V Collar OK		
		ng – 2" diamet	er = 0.163 gal	lons per foot o	of depth, 4" dia	ameter = 0.65	3 gallons per f	foot of depth	Collar ok		
PURGE 1	DATA										
Time	Depth to	Purge Rate	Temp.	pH	Dissolved	Turbidity	Cond.	ORP	6		
	7.24	(ml/min)	(deg. C)	(units)	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments		
1242	1.24	bailer	0. T	7.25	20.40	4.63	1.45	88.7			
1.1											
	<u> </u>	<i>2</i>									
P	urge Ohse	ervations:									
. P	urge Wate	er Containe	rized:	No- oes	NYSDE						
											
EQUIPM	IENT DO	CUMENTA	TION								
T	D » T A	1_1_1	L 1 91 .								
	Pump: <u>NA</u> Tubing:	<u> - sample</u>	by baller								
- A	<u> </u>	ality Meter:	VSI Pro I	Oluc LaM	 otte 2020		Calibra	otod:			
Type of	water Qua	arity Meter.	1311101	ius, Laivie	<u> </u>		Calibra	ateu			
		RAMETE				LO	CATION N	NOTES			
Paramete		umes	Sample Co	ollected							
<u>VOCs</u>	2 x	40 ml	yes								
											
11											
2 1	13		· ····································								
	·					-					
Signature	e:										
Checked											

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Project Name Scio St BCP Site Location ID MW-5 Activity Time	Field Sample ID	Job #_ 4226 Sampling Event # 0 2 Date 12/22/14
SAMPLING NOTES		
Initial Depth to Water Final Depth to Water Screen Length Total Volume Purged [purge volume (milliliters per minute) x time duration (not volume of Water in casing – 2" diameter = 0.163 gallon PURGE DATA	Well Depth	2. feet Well Integrity: Cap Casing Locked
Depth to Purge Rate Temp.	pH Dissolved Turbidity	Cond. ORP
Time Water (ft) (ml/min) (deg. C)	(units) O2 (mg/L) (NTU)	(mS/cm) (mV) Comments
NOT SAMPLE	DANGE	UNDER
6' 5NW	BANK.	
	A VA	
	VI	
EQUIPMENT DOCUMENTATION		
Type of Pump: NA – sample by bailer		
Type of Tubing: NA Type of Water Quality Meter: YSI Pro Pla	us, LaMotte 2020	Calibrated:
ANALYTICAL PARAMETERS		DCATION NOTES
Parameter Volumes Sample Col		OCATION NOTES
VOCs 2 x 40 ml No		
	16/	
	- 11	
Signatura	= -	
Signature:		

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Location		o St BCP S MW-6 1059		Field Samp	Sample ID	MW-6_1 1115	2-22-14	Jo Sa D	ob # 4226 Ampling Event # 42 ate 12 - 22 - 14
SAMPL	ING NOT	<u>ES</u>							
Final De Screen I Total Vo [purge volu	epth to Wa Length lume Pur lime (millilite Water in casi	rater 8.5 ater 10 ged 12 rs per minute) 2 ing - 2" diamet	feet feet gall stime duration	Well Pumpons PID V (minutes) x		pth	fee	<u>-</u> -	Vell Diameter
Tr:	Depth to	Purge Rate	Temp.	рН	Dissolved	Turbidity	Cond.	ORP	
Time	Water (ft)	(ml/min)	(deg. C)	(units) 7.62	02 (mg/L)	(NTU) 125	(mS/cm) 1.67	(mV) 84.9	Comments
	-								
F	urge Obs	ervations: _						1	
		er Containe <u>CUMENTA</u>		discha	rged to	MCPL	<u>v (4</u>	gallons) Per NYSDEC
Type of	Tubing:								
Type of	Water Qu	ality Meter	: <u>YSI Pro P</u>	lus, LaM	otte 2020		Calibr	ated:	
		ARAMETE				LO	CATION N	NOTES	
Paramet		lumes	Sample Co						
<u>VOCs</u>	<u> </u>	40 ml	yes_						
2 1									
				=	_				- (a)
Signatur Checked			<u>.</u> .						
слескео	LDV:								

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Location	ı ID	St BCP S MW-7 1245		Field Samp	Sample ID ble Time		Job # 4226 Sampling Event # 2 2 Date 12 22 14		
SAMPL	ING NOT	<u>es</u>							•
Screen I Total Vo [purge volu	Length	ater 8.1 ter 10 ged 4.4. rs per minute) x ng - 2" diamet	feet 0 gall time duration	none Pump <u>lons</u> PID V (minutes) x (o Intake De Well Head 0.00026 gal/mi	pth lliliter}		-	Il Diameter 2" Il Integrity: Cap OK Casing OK Locked Y Collar OK
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1301	8.19	bailer	10.0	7.08	7.08	-22	[.86	89.0	Comments
2									
I	urge Obse	rvations:			1				
I	Purge Wate	er Containe	rized: 🖊	10 - disc	harged i	6 MCPU	I per Ny	SOEC	
EQUIPN	MENT DO	CUMENTA	TION						
		A – sample	by bailer						
	Tubing: Water Ou	NA ality Meter:	YSI Pro F	lus, LaM	 otte 2020		Calibra	ated:	
		RAMETE				10			
Paramet		lumes	Sample Co	ollected		<u> </u>	CATION N	OTES	
VOCs	2 x	40 ml	yes			_			
		Щ			<u> </u>				
2 1									
Signatur	·e·							-	
								<u> </u>	m/s



Location	n ID	o St BCP S MW-8 1150		Field Samp	Sample ID	MW-8_ 1215	12-22-1 <u>4</u>		# 4226 mpling Event # 2 2 te 12/22/14
Initial De Final De Screen I Total V [purge vol	epth to Wa Length olume Pur ume (milliliter f Water in casi	ater 8/5 ter 70 ged ~ 4. rs per minute) x ng - 2" diamet	feet feet gall time duration	Well Pumpons PID V (minutes) x	Depth Intake De Well Head 0.00026 gal/m	pth	R fee	<u>t</u> We	ell Diameter 211 ell Integrity: Cap ok Casing ok Locked Y Collar ok
	Depth to	Purge Rate	Temp.	pН	Dissolved	Turbidity	Cond.	ORP	
Time 1215	Water (ft) 8.56	(ml/min)	(deg. C)	(units) 7.16	O2 (mg/L) 3.55	(NTU) 8,21	(mS/cm) 4,77	(mV) - 43.5	Comments
EQUIP I	Purge Wate	ervations: _er Containe CUMENTA - sample	TION	10 - discl	harge to	тери р	er nysog	ec .	
Type of	Tubing:_			lus, LaM	otte 2020		Calibra	ated:	
-	TICAL PA	ARAMETE lumes 40 ml				<u>LO</u>	CATION N		
Signatu Checke	re: d By:	B				_			



Location		o St BCP S MW-9 1146		Field Samp	Sample II ble Time _	MW-9 1157	-12-22-[# 4226 inpling Event # 0 2 te 12 - 22 - 14
SAMPL	ING NOT	<u>es</u>							
Final De Screen I Total Vo [purge volu	epth to Wa Length clume Purgume (millilited Water in casi	ater 7,9 iter iO ged ~ 4.5 rs per minute) x ing – 2" diamet	feet feet gall time duration	Well Pump lons PID V	Depth Intake De Well Head 0.00026 gal/m	Pr.55		<u> </u>	ell Diameter All ell Integrity: Cap OK Casing OK Locked Y Collar OK
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1157	7.99	bai ler	9.4	7.21	5.39	28.4	4.16	88.7	Comments
EQUIPN	Purge Wat	ervations: _ er Containe	rized:n	0 - disch	anged to	» MCPW	sewer pe	A NYSDEC	
		A – sample							
	Tubing: Water Ou	ality Meter:	: YSI Pro P		 otte 2020		Calibr	ated:	
	TICAL PA	ARAMETEI lumes 40 ml		ollected		<u>Lo</u>	CATION N	*:	
Signatur	re: l By:								



Location	ID	OStBCPS	<u>ب</u>	Field Samı	Sample III	Mw-1	2-033L) 47	s کی	ob # <u>4226</u> ampling Event # <u>o \$</u> Date <u>3/31/15</u>
Initial De Final De Screen L Total Vo [purge volum	oth to Wa ength lume Purg me (milliliter Water in casi	ater 10 ter 20 ged 2.2 s per minute) x ng - 2" diameter	feet feet gall time duration	Well Pump ons PID V (minutes) x	Well Head 0.00026 gal/mi	pth	. <i>0</i> 0 fee	<u>t</u> V	Vell Diameter 2" Vell Integrity: Cap / Casing / Locked / Collar /
	Depth to	Purge Rate	Temp.	pН	Dissolved	Turbidity	Cond.	ORP	
Time	Water (ft)	(ml/min)	(deg. C)	(units)	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments
	urge Obse	rvations:r Container	9.2 To	7.03 seg 1A		41.8 Dor	1,00	198.6	
Type of P Type of T Type of V	ump: <u>NA</u> ubing: Vater Qua	lity Meter: RAMETER	y bailer YSI Pro Pl	llected	utte 2020	<u>LOC</u>	Calibra		
Signature:		(C			- - - -				



Project Name Scio St BCP Site Location ID Activity Time	Field Sam	l Sample II ple Time _	Mw.	4-032	- जा2	Job # 4226 Sampling Event # 03 Date 3 3 15
SAMPLING NOTES 3 3 1 5 Initial Depth to Water Final Depth to Water Screen Length Total Volume Purged [purge volume (milliliters per minute) x time duration Volume of Water in casing - 2" diameter = 0.163 gal PURGE DATA	et Well t Pump llons PID n (minutes) x	p Intake De Well Head 0.00026 gal/mi	epth	COS fee	<u>-</u>	Well Diameter 2 " Well Integrity: Cap Casing Locked Collar
Depth to Purge Rate Temp.	pН	Dissolved	Turbidity	Cond.	ORP	
Time Water (ft) (ml/min) (deg. C)	(units)	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments
1 675 - 6.4	7.12	17.54	31.9	208	174.5	-
						+
	-					
						
					· ··· ··	
Purge Observations:						
Purge Water Containerized:	10 P	er DE	<u> </u>			
EQUIPMENT DOCUMENTATION						
True of Danier NIA						
Type of Pump: NA – sample by bailer Type of Tubing: NA						
Type of Water Quality Meter: YSI Pro P	lus, LaMo	— otte 2020		Calibra	ted:	
						
ANALYTICAL PARAMETERS Parameter Volumes Sample Co	.11 1		LOC	ATION N	<u>OTES</u>	
Parameter Volumes Sample Co VOCs 2 x 40 ml	<u> </u>					
METHER BD QT	7117	_				
-1 -2 -7	well					
	-	_				
		_		- X*		
Signature: Ac Checked By:		_				



Location	n ID	St BCP S MUS 1057		Field Samr	Sample II ole Time _	1105	e-03-	3115	Job # <u>4226</u> Sampling Event # <u>0</u> 3 Date3 - 31 - 15
	ING NOTI	•	_	•				_	4
Initial D Final De Screen I Total Ve	epth to Wa epth to Wa ength clume Purg ume (milliliter Water in casi	ter	feet feet S gall time duration	t Well L Pump Lons PID V (minutes) x	Well Head 0.00026 gai/m	pthilliliter]	00 fee	<u>-</u> -	Well Diameter 2 ' Well Integrity: Cap Casing Locked h Collar
T:	Depth to	Purge Rate	Temp.	рН	Dissolved	Turbidity	Cond.	ORP	
1057	Water (ft)	(ml/min)	(deg. C) 5,9	(units)	02 (mg/L) 19.41	71.2	1.90	(mV) 169	Comments
-		41							
									8
EQUIPN Type of Type of Type of	Pump: NA Tubing: Water Qua TICAL PA er Vol	CUMENTA - sample NA ality Meter:	TION by bailer YSI Pro P	lus, LaMo				ited:	
Signatur Checked	re:				_	3			



Initial Depth to Water	Project N Location Activity	Name <u>Sci</u> 1 ID Time	o St BCP S Mw-1	Site	Field Sam _l	l Sample II ple Time _	Musle 1959	-033 5		Job # <u>4226</u> Sampling Event # <u>9</u> 3 Date 3 3 1 . .
Total Volume Purged	SAMPL	ING NOT	<u>es</u>							
Time Water (ft) (ml/min) (deg. C) (units) 02 (mg/L) (NTU) (mS/cm) (mV) Comments 105.3 9.01 - 7.9 1.84 9.41 55.3 1.61 1.99 9 Purge Observations: Purge Water Containerized: EOUIPMENT DOCUMENTATION Type of Pump: NA — sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:	Total Vo [purge volu Volume of	olume Purg me (milliliter Water in casi	geds rs per minute) >	gall time duration	lons PID ((minutes) x	Depth p Intake De Well Head 0.00026 gal/m	epth	fee	<u>-</u>	Well Integrity: Cap Casing Locked
Purge Observations: Purge Water Containerized: EQUIPMENT DOCUMENTATION Type of Pump: NA = sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected	Tima									
Purge Observations: Purge Water Containerized: EQUIPMENT DOCUMENTATION Type of Pump: NA — sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected WOCS 2 x 40 ml Signature:			(111/111111)				i			
Purge Water Containerized: EQUIPMENT DOCUMENTATION Type of Pump: NA — sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:	1023	0.01		7.	U-04	9.41	55.3	1,61	1 49.	¥
Purge Water Containerized: EQUIPMENT DOCUMENTATION Type of Pump: NA — sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:										
Purge Water Containerized: EQUIPMENT DOCUMENTATION Type of Pump: NA — sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:										
Purge Water Containerized: EQUIPMENT DOCUMENTATION Type of Pump: NA — sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:						-				
Purge Water Containerized: EQUIPMENT DOCUMENTATION Type of Pump: NA — sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:										
Purge Water Containerized: EQUIPMENT DOCUMENTATION Type of Pump: NA — sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:										
Purge Water Containerized: EQUIPMENT DOCUMENTATION Type of Pump: NA — sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:										
Purge Water Containerized: EQUIPMENT DOCUMENTATION Type of Pump: NA — sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:										
Purge Water Containerized: EQUIPMENT DOCUMENTATION Type of Pump: NA — sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:										
Purge Water Containerized: EQUIPMENT DOCUMENTATION Type of Pump: NA — sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:										
Purge Water Containerized: EQUIPMENT DOCUMENTATION Type of Pump: NA — sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:		01								
Type of Pump: NA – sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:	Pi D	urge Obse	rvations:	سام می ا						
Type of Pump: NA — sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020	1 (urge wate	i Comame	nzeu:	- ho	Det 1	-450E			
Type of Tubing:NA	EQUIPM	ENT DOC	CUMENTA'	TION						
Type of Tubing:NA										
Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: LOCATION NOTES Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:				y bailer	·	_				
ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:				VCI Des Di	I Y - N / -			G 111		
Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:	Type of v	water Qua	my Meter:	<u>Y S1 Pro P1</u>	ius, Laivio	tte 2020		Calibrat	ted:	
Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:	ANALYT	ICAL PA	RAMETER	RS			LOC	'ATION NO	OTES	
Signature:					llected			2111011111	<u>JILD</u>	
	VOCs_	2 x 4		✓	· —					
						_				
						_				-
	·					_				
	· · · · · · · · · · · · · · · · · · ·				4,4,4					
	_		Ae							



Project Name Scio St BCP Site Location ID Activity Time	Field Sample II Sample Time _	Mw7-0334	Job # 4226 Sampling Event # 03 Date 33115
SAMPLING NOTES			
Initial Depth to Water Final Depth to Water Screen Length Total Volume Purged [purge volume (milliliters per minute) x time duration (n Volume of Water in casing – 2" diameter = 0.163 gallon PURGE DATA	Well Depth Pump Intake Dens PID Well Head ninutes) x 0.00026 gal/m	illiliter]	Well Integrity: Cap Casing Locked
Depth to Purge Rate Temp. Time Water (ft) (ml/min) (deg. C)	pH Dissolved (units) O2 (mg/L)	Turbidity Cond.	ORP
		(NTU) (mS/cm)	(mV) Comments
1114 7.72 - 7.4	7.10 16.59	669 2.39	1641
Purge Observations:Purge Water Containerized:	dos, tr	bid	
Purge Water Containerized:		no per re	SDEC
EQUIPMENT DOCUMENTATION		ų.	
Type of Pump: NA – sample by bailer			
Type of Tubing: NA			
Type of Water Quality Meter: YSI Pro Plus	s, LaMotte 2020	Calibra	ted:
ANALYTICAL PARAMETERS		LOCATION N	OTES
Parameter Volumes Sample Colle	ected	<u>LOCATION N</u>	<u>OIES</u>
VOCs 2 x 40 ml	<u> </u>		
	· · · · · · · · · · · · · · · · · · ·		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		****	
			
	-		
Signature: Ac			
Checked Ry:	· · · · · · ·		



Location	roject Name Scio St BCP Site Ocation ID MASS Field Sample ID MASS Sampling Event #03 Sample Time 1136 Date 313115										
SAMPL	ING NOTI	<u>ES</u>									
Final De Screen L Total Vo [purge volu	epth to Wa Length Dlume Purg Ime (milliliter Water in casi	geds per minute) >	time duration	Well Pump ons PID V (minutes) x) Intake De Well Head).00026 gal/m	epth	Francisco de la companya de la compa		Well Diameter		
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments		
1134	7,97		7.2	7.09		11-23	4,12	-54.	7-		
		ervations: _er Containe		STROP	DE Ga	solice Mys	ods Dec	,10	w turbidity		
Type of	Tubing:		by bailer YSI Pro P		 otte 2020		Calibrat	ed:			
ANALY Paramete VOCs	er <u>Vol</u>	RAMETEI umes 40 ml	RS Sample Co	llected	 	<u>LOC</u>	CATION NO	OTES			
Signature Checked		AC									



Project Name Scio St BCP Site Location ID Activity Time	Field Sampl Sample Tim	e ID Mule	9-033	115	Job #4226 Sampling Event #02 Date3\3\1)=
SAMPLING NOTES					·
Initial Depth to Water 7.58 feet Final Depth to Water feet Screen Length O feet Total Volume Purged S gallo [purge volume (milliliters per minute) x time duration (Volume of Water in casing – 2" diameter = 0.163 gallo PURGE DATA	Well Depth Pump Intake ons PID Well H (minutes) x 0.00026 g	al/milliliter]	3 fee		Well Diameter
Time Depth to Purge Rate Temp. (deg. C)	pH Dissol		Cond.	ORP	
Time Water (ft) (ml/min) (deg. C)	(units) O2 (mg		(mS/cm)	(mV)	Comments
		18 ~ 110	-31Z-	10 /.0	
Purge Observations:	Qui Dina	Oloc I	n . t.	/h = 0 - 1	
Purge Observations: Purge Water Containerized:	- ho	Dec 1	4.C OGC	r U v OCc +	٧
EQUIPMENT DOCUMENTATION Type of Pump: NA – sample by bailer Type of Tubing: NA			/ -		
Type of Water Quality Meter: YSI Pro Plu	us. LaMotte 202	0	Calibra	ted•	
-57	-0, -0, -0, -0, -0, -0, -0, -0, -0, -0,	<u> </u>	Cultora		
ANALYTICAL PARAMETERS	14 - 1	LOC	CATION NO	<u>OTES</u>	
Parameter Volumes Sample Coll VOCs 2 x 40 ml ✓	lected				
MS/MED V					
. =/ =					
		-			
Signature:ACChecked By:					



Location I	D	o St BCP S		Field Samj	l Sample II ple Time _	D IP P	2012TS	Je S D	ob #_ 4226 ampling Event # Date 3311<
SAMPLIN	G NOTE	<u>ES</u>							
Final Dept Screen Ler Total Volu [purge volume	th to Wat ngth ume Purg e (milliliters ater in casir	geds per minute) ;	fee fee fee gal x time duration er = 0.163 gal	t Well t Pump lons PID (minutes) x	0.00026 gal/m	epth	fee	<u>et</u> W	Vell Diameter Vell Integrity: Cap Casing Locked Collar
	Depth to	Purge Rate	Temp.	рН	Dissolved	Turbidity	Cond.	ORP	TURRIDITY
	Water (ft)	(ml/min)	(deg. C)	(units)	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	(TURBIDITY) Comments
1152-1	PL		6.4	8.43	29-77	OR	1.50	96.5	OVER RANGE
	IP 2		7.3	7.45	25.40	2008	2-71	103.3	AU
	1P3		8.1	7.19	14.00	118	1.87	100,1	NTU
	1P4		7-0	7-35	27.71	2587	1.19	99.8	AU
1	P 5	_	7-3	7.49	27.43	50.0	2.24	101.3	NTU
	PL		6.8	7-50	25.44		2.33	107-1	NTU
	07		7.6	7.36	17-14	794	190	98.7	AU
	08		8-1	7-22	14.62	1784	1.56	50.6	AU
	Pg		6.9	7-35	26.29	1461	3.35	103 8	AU
1	1910		6-5	6.79	12.34	42	3.49	27.9	NTU
	PI		6.3	7.44	25.23	22.1	2-65	35.1	NTU
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P 12		6.9	7-69	29.43	1259	2-09	45.5	114
		rvations:	<i>Ψ · </i>	100	- CM	10 3 1	2.07	73.3	774
		r Containe			(OFF		008/2	, DAR	L GREY
EQUIPME	NT DOC	UMENTA	TION		· Fig.	55		· .	
Type of Pu			y bailer		·				
Type of Tu			****						
Type of Wa	ater Qual	lity Meter:	YSI Pro P	<u>lus, LaMo</u>	tte 2020		Calibra	ted:	
ANALYTIC	CAL PAI	RAMETER	<u>RS</u>			LOC	CATION N	OTES	
<u>Parameter</u>	<u>Volu</u>	<u>imes</u>	Sample Co	llected					
VOCs	2 x 4	0 ml			_				
							_ ,		
							· .		
-		.							
					_				
Signature:					_				
Checked By	v.								



Location	n ID	o St BCP S		Field Samp	Sample II ole Time _	(P.	01NTJ 2)		ob #4226 ampling Event # Date3-31-15
SAMPL	ING NOTI	<u>es</u>							
Final De Screen I Total Ve [purge volu	epth to Wa Lengtholume Purg ume (milliliter Water in casi	ater ter ged s per minute) x ng – 2" diamete	feet feet gall time duration	well Pump lons PID v (minutes) x	o Intake De Well Head 0.00026 gal/m	epth	fee	<u>-</u> -	Vell Diameter Vell Integrity: Cap Casing Locked Collar
Time	Depth to	Purge Rate	Temp.	рН	Dissolved	Turbidity	Cond.	ORP	(TURBIDITY) Comments
1125	Water (ft)	(ml/min)	(deg. C)	(units) 7-50	02 (mg/L) 26. 91	(NTU)	(mS/cm) 2.44	(mV)	
1167	1014		7-6		29.87		2.42	70.4	OVER RANGE OVERRANGE
	1015		7-4	7.04	20.06	1112	3.03	77-8	AU
	1016		7.9	7-17	14.70	OR	0.95	10.1	OUER RANGE
F	urge Obse	rvations: _			1.				
Type of Type of Type of ANALY	IENT DOO Pump: <u>NA</u> Tubing: Water Qua	lity Meter: RAMETER	TION by bailer YSI Pro P	lus, LaMo			Calibra	ted:	
Paramete VOCs		umes 40 ml	Sample Co	<u>llected</u>	_ _ _				
· · · · · · · · · · · · · · · · · · ·			·····		_	-	*****		
	e: By:		9 1 9 1 days		-				



Project Name Sc. Location ID Activity Time	4W-2	ite	Field Samp	Sample II	<u>MW2-</u> 095	06/6/5	. S	ob # <u>4226</u> Sampling Event # <i>(</i>) Date <u>06//5/7</u> 5	9
SAMPLING NOT	<u>ES</u>								
Initial Depth to Wascreen Length Total Volume Pur [purge volume (millilite Volume of Water in cas PURGE DATA]	ged	feet gall time duration	Well Pump ons PID (minutes) x	Depth Depth Depth in the Depth in	epth		V	Vell Diameter 2" Vell Integrity: Cap Casing Locked Collar	
Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments	
Purge Obse	ervations: _er Container	rized:	7.37	16.17	3732k		100		
Type of Pump: NA Type of Tubing: Type of Water Qua ANALYTICAL PA Parameter Vol VOCs 2 x	NA NA Ality Meter: RAMETER	YSI Pro Pl	llected	 tte 2020 	<u>LOC</u>	Calibrate			
Signature:		18		_	250	345			-



VOCs 2 x 40 ml Signature:	Droiget No.	ma Sair	- C+ DCD C	:						
SAMPLING NOTES Initial Depth to Water	Location II	me <u>scr</u>	4W-4	otte	Field	Sample II) MW4	-06/6/5	J	ob # <u>4226</u> Sampling Event # /3 4/
Initial Depth to Water	Activity Ti	ime	307 (U	15/15)	Samp	ole Time _		RUS	_ `` I	Date <u>06/13/15</u>
Screen Length	SAMPLIN	G NOTE	<u>ES</u>							
Screen Length	Initial Dept	th to Wa	ater	·8\ feet	Meas	surement P	oint <u>TO</u>	R	_ \	Well Diameter 2"
Total Volume Purged	Final Deptl	h to Wa	ter <u> </u>	.84 feet	Well	Depth	15.0)S fee	<u>et</u> 1	Well Integrity:
Depth to Purge Rate Temp. pH Dissolved Turbidity Cond. ORP Comments	Screen Len	ngth	/(2 feet	Pump	Intake De	epth		_	Cap
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth Time									_	Casing
Time Depth to Purge Rate Temp. pH Dissolved Turbidity Cond. (mS/cm) (mV) (mS/cm) (mS/cm) (mV) (mS/cm) (mS/cm) (mV) (mS/cm) (mS/cm) (mV) (mS/cm) (mS/cm) (mV) (mS/cm)	Volume of Wa	ter in casir						3 gallons per	foot of depth	Collar
Time Water (ft) (ml/min) (deg.C) (uinits) O2 (mg/L) (NTU) (mS/em) (mV) Comments OCUC (GOU) + 15.3 7.39 18.53 (0.01 1.14 9)0.2 Purge Observations: Purge Water Containerized: EOUIPMENT DOCUMENTATION Type of Pump: NA – sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected (OCS 2 x 40 ml) Signature:	PURGE DA	<u>ATA</u>		/						
Purge Observations: Purge Water Containerized: EOUIPMENT DOCUMENTATION Type of Pump: NA – sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 ANALYTICAL PARAMETERS Parameter Volumes Pa					•				1	Comments
Purge Observations: Purge Water Containerized: EOUIPMENT DOCUMENTATION Type of Pump: NA – sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:			+							
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Purge Water Containerized: EOUIPMENT DOCUMENTATION Type of Pump: NA – sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:										
Purge Water Containerized: EOUIPMENT DOCUMENTATION Type of Pump: NA – sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:										
Purge Water Containerized: EOUIPMENT DOCUMENTATION Type of Pump: NA – sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:						<u> </u>				
Purge Water Containerized: EOUIPMENT DOCUMENTATION Type of Pump: NA – sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:										
Purge Water Containerized: EOUIPMENT DOCUMENTATION Type of Pump: NA – sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:										
Purge Water Containerized: EOUIPMENT DOCUMENTATION Type of Pump: NA – sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:										
Purge Water Containerized: EOUIPMENT DOCUMENTATION Type of Pump: NA – sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:										
Purge Water Containerized: EOUIPMENT DOCUMENTATION Type of Pump: NA – sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:										
Purge Water Containerized: EOUIPMENT DOCUMENTATION Type of Pump: NA – sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:								- . <u>.</u>		
Purge Water Containerized: EOUIPMENT DOCUMENTATION Type of Pump: NA – sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:	Purg	ge Obser	rvations:		Cı	ear)	dos		
Type of Pump: NA – sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: LOCATION NOTES Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:	Purg	ge Water	r Containe	rized:	_ ~					
Type of Pump: NA – sample by bailer Type of Tubing: NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: LOCATION NOTES Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:	EOUIPMEN	NT DOC	UMENTA	TION						
Type of Tubing:NA Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:		_	"	-						
Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:				y bailer		_				
ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:	Type of Tub	bing:	NA NA	VOLD D	7.76			~		
Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:	Type of wa	iter Qua	lity Meter:	YSI Pro Pl	<u>us, LaMo</u>	tte 2020		Calibra	ted:	
Parameter Volumes Sample Collected VOCs 2 x 40 ml Signature:	ANALYTIC	CAL PAI	RAMETER	S			LOC	CATION N	OTES	
Signature:				Sample Col	llected					*2
Signature:	<u>VOCs</u>	2 x 4	0 ml			_				
Signature:						_				
Signature:	716					_	•			
Signature:	V 80000					_				
Signature:						_				
hecked By:	Signature: _				_	_	-	A		



Project Nam	ne Scio	St BCP S	ite					Jo	b # 4226
Location ID				Field	Sample ID	MUS	-061615		ampling Event # <u>Q</u>
Activity Tin				Samp	le Time _	080	-061615 5	D	ate 06/15/13
SAMPLING Initial Depth Final Depth Screen Leng Total Volum [purge volume (r) Volume of Wate PURGE DAT	n to Wat to Wat to Wat th ne Purg milliliters er in casin	eter	feet feet feet gall time duration	Meas Well Pumpons PID V	urement Po Depth Intake De Well Head 0.00026 gal/mi	oint <u>TO</u>	R fee	- W <u>t</u> W	Vell Diameter
	pth to	Purge Rate	Temp.	pН	Dissolved	Turbidity	Cond.	ORP	
Time Wa	iter (ft)	(ml/min)	(deg. C)	(units)	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments
0959	7.12	_	19.1	7.91	12.85	0	0.315	95.8	
	e Wate	r Containe		Slie	JLT OF U	8nlph loct	cair	ment	ess and one
EQUIPMEN	1 DOC	UNIENTA	HON			L 0 -	6		212.6
Type of Pum	1p: <u>NA</u>	– sample l	y bailer		_	10%	t wer	1	
Type of Tub	ing:	NA	-						
Type of Wat	er Qua	lity Meter:	YSI Pro P	lus, LaMo	tte 2020		Calibra	ted:	
ANALYTICA Parameter VOCs	Volu		RS Sample Co	llected	_ _ _	<u>LOC</u>	CATION N	<u>OTES</u>	
					_				
					_				N ×
Signature: Checked By:		-		•	<u></u>				Sp. 201 181



Location	ID	o St BCP S MW-G 13:45		Field Samp	Sample II ole Time _	MW6-1	061615 PQ05		# 4226 mpling Event # 2 4 te _ 06/15/18
<u>SAMPLI</u>	NG NOTI	<u>es</u>							
[purge volu	me (milliliter Water in casi	s per minute) x	time duration	(minutes) x	0.00026 gal/m	illiliter]	feet feet gallons per fo		ell Diameter 2" ell Integrity: Cap Casing Locked Collar
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
0909 P	Purge Obse	ervations:er Containe	rized:	6.88 Tucbi	7.22 d, no		(57.6	
EQUIPM	MENT DO	CUMENTA	<u>TION</u>						
Type of	Tubing:	NA — sample l NA ality Meter:		lus, LaMo	 otte 2020		Calibra	ted:	
ANALYT Paramete VOCs	er <u>Vol</u>	ARAMETEI umes 40 ml	Sample Co	ollected /			BUND		21 NT 9
Signature Checked		â		(6)		4 - 4	3		2 19 2

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Location	ID	St BCP S MW-7 13:20		Field Samp	Sample II ole Time _	MW7-	061615 925		b # <u>4226</u> mpling Event # <u>0 4</u> ite <u>06 (/5//5</u>
<u>SAMPLII</u>	NG NOTE	<u>ES</u>							
[purge volun	ne (milliliter: Vater in casir	ter 7 ged 4 s per minute) x ng - 2" diamet	time duration	(minutes) x (0.00026 gal/m	illiliter]			ell Diameter 2" ell Integrity: Cap Casing Locked Collar
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
0977	7.80		15.5	6.90	\$·\$\$	741 AU		74.0	Comments
Pu	irge Wate	rvations: _er Containe	rized:	Sugl	+ Sul	phur	odo	-, tv	bid
Type of P Type of T Type of W	dump: <u>NA</u> Jubing: Vater Qua	. – sample l	y bailer YSI Pro P	lus, LaMo	 otte 2020_	LOC	Calibra	ted:	
Parameter VOCs	Volument Vol		Sample Co						
					_				



Project N Location Activity	Name <u>Sci</u> n ID <u>/</u> Time	o St BCP S 仏W-& 14:1万	ite	Field Samı	Sample II	MW8-	06/6/5	_ S _ E	ob # 4226 Sampling Event #04 Date 06/15/15
SAMPLI	ING NOT	<u>ES</u>							
Total Vo	olume Pur ime (millilitei Water in casi	ged	7.5 gall time duration	ons PID (minutes) x	Well Head 0.00026 gal/m	illiliter]		-	Vell Diameter
Time	Depth to Water (ft)	Purge Rate	Temp.	pH (verite)	Dissolved	Turbidity	Cond.	ORP	
Time		(ml/min)	(deg. C)	(units)	O2 (mg/L)	(NTU)	(mS/cm)	(mV) -119.	Comments
1010	\$.00		16.0	7.14	1.50	الد	4.70	119.	4
1							_		
1	****								
P	urge Obse	ervations:	Gasolia	ne odac	, tuckid				
P	urge Wate	er Containe	rized:	7					
		CUMENTA							
		<u> </u>	by bailer						
	Tubing:		VCI D D	1 T -N/-			C 111	. 1	
Type of	Water Qua	ality Meter:	YSI Pro P	lus, LaMo	otte 2020		Calibra	ted:	
ANALYI	TICAL PA	RAMETER	RS.			LOC	CATION N	OTES	
Paramete	_		<u>Sample</u> Co	llected		<u>200</u>	<u> </u>	<u>OTLO</u>	
VOCs		40 ml	V		_				
			**						
							 		
									
 -		20			22.1	·	54.7		
Signature	e:		H.2 180		1967		•		
Checked									



Location Activity 7	ID <u>/</u> Γime) St BCP S /W-ダ /4 35		Field Samp	Sample ID	HW9-	06/6/5	Jo Sa D	b # 4226 ampling Event # 0 4 ate 06/15/15
Final Dep Screen Le Total Vol [purge volun	epth to Wa oth to Wat ength lume Purg ne (milliliter: Vater in casin	ter 7. ter 7. // // // // // // // // // // // // //	feet feet gall time duration	Well Pumpons PID V (minutes) x (Depth Intake De Well Head 0.00026 gal/m	/753 pth illiliter]	R feet	<u>t</u> W	Vell Diameter 2" Vell Integrity: Cap Casing Locked Collar
gr:	Depth to	Purge Rate	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
Time	Water (ft)	(ml/min)	(deg. C)	7.38		26.3	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	1.4	Comments
1318	1		14.5	7.03					
					4				
									
1									
9						-			
P	urge Wate	ervations: _ er Containe CUMENTA	nized:	, turbid					
Type of I	Pump: <u>NA</u> Fubing:	A – sample NA		lus, LaMo	 otte 2020		Calibra	nted:	
ANALYT Paramete VOCs	<u>r Vol</u>	MAMETE umes 40 ml	RS Sample Co	ollected	_	<u>LO</u>	CATION N	OTES	
					_	_			
							<u> </u>		
Signature	e:	2.		40					15.
Checked	Ву:	6		5.50					
		₩ .							



Location	1 ID	o St BCP S		Field Sam	l Sample II ple Time _	1 P Poil	nts)	_ s	ob # <u>4226</u> ampling Event # Date <i>6/6/1</i> 5
SAMPL	ING NOTI	<u>ES</u>				,			
Final De Screen I Total Vo [purge volu	epth to Wa Length clume Purg ame (milliliter Water in casi	ater ter ged s per minute) x ng – 2" diamet	fee fee gal time duration	t Well t Pum lons PID (minutes) x	Depth p Intake De Well Head 0.00026 gal/m	illiliter]	fee	<u>-</u> -	Vell Diameter Vell Integrity: Cap Casing Locked Collar
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp.	pH (units)	Dissolved	Turbidity	Cond.	ORP	
10:50	IPL	(1111/111111)	(deg. C)	g./4	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments
10:40	1P2		15.4	7.46	30.27 23.93	1		37.0	1 Turbidity
11:39	103		16.3	7.50	28.47	OVELLONGA G25AU	1.75	65.2 (E.H	1 Turbidity
11:15	104	-	16.3	7.50	30.27	-49		65,7	•
11:23	185		17/	7.50	24.82		0.509	67.3	
11:52	196	***	15.5	7.15	16.59	1952AU	1.74	45.2	
11:48	197		18.1	7.13	1453	687AU	2.22	68.1	
11:55	108		17.3		>7.22	875 AV	2.22	65.7	
11:29	119		-	7.38		491	0.32	60.0	
10:43	1910		16.6 14.9		22,28	1637 AU	2.30	66.7	0 1 10
12:15	10/1			7.01	6.98	overrange		-64.1	Gasdine aderl Groy
10:53	1011	-	21,2	7.18 8.01	26.51	1319AL	2.58	621	
	urge Obse	rvations:	dlich	8.01	7.65	2266 AU	0.309	35.7	
		r Containe	rized·						
EQUIPM	ENT DOC	CUMENTA'	TION						
		– sample b	y bailer						
	Tubing:				_				
Type of V	Water Qua	lity Meter:	YSI Pro P	lus, LaMo	otte 2020		Calibra	ted:	
ANALYT	ICAL PA	RAMETER	S			LOC	ATION N	OTES	
Paramete	<u>r Volu</u>	ımes S	Sample Co	llected					
<u>VOCs</u>	2 x 4	10 ml	<u></u>						
					_				
					_				
				 -	-				
			17					<u> </u>	
Signature Checked								3 2	

Scio St. 4226

Depth to Purge Rate Temp. pH Dissolved Turbidity Cond. (m8/cm) (m1/min) Comments	ADDITI	ONAL PU	RGE DAT	<u>A</u>		ts (Page		16/16		
12:11 1P(3) — 16.0 7.46 28.40 1130 Ay 2.32 26.8 11:56 1P14 — 17:1 7.36 26.88 50 2.64 69.6 12:05 1P15 — 18:4 6.79 17:21 2325 AY 4.17 2.9	Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pri pri	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond.	Redox (mV)	Comments
11:56 1P14 - 17:1 7:36 26:88 50 2.64 69.6 12:05 1P15 - 18:4 6:79 17:21 2325AU 417 2.9	12:11	1913	1	The second second	7.46					
12:05 1P15 — 18:4 6:79 17:21 2325AU 4:17 2.9 12:08 1P16 — 17:14 6:98 13:01 currenge 1:65 9:4		1914	~		7.36	26.88	50	2.64	69.6	
12:08 1016 — 19.4 6.98 13.01 overrange 1.65 9.4	12 05	IP15		18.4	6.79	17,21	2325AG	4.17	29	
	12:08	iP16		17.4	6.98	13.64	OVERCIONS	e 1.65	94	
	-									
				_						
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		-								
										
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	-									
	 									
	LL			20 20 -					1	



Project 1	Name <u>Sci</u>	o St BCP S	Site					Ŧ	oh # 4226		
Project Name Scio St BCP Site Location ID MW-2 Field Sample ID MW2-092315 Activity Time O925 Sample Time O930 Date 9123115											
Activity	Time	0925		Samp	ple Time _	092	50	D	Date 9/23/15		
	ING NOT										
Initial D	epth to W	ater	72 fee	t Meas	surement Pe	oint TO	R	XX	Vell Diameter 2"		
Final De	pth to Wa	iter	fee	Well	Donth			**	Vell Integrity:		
Screen I	ength	ged	fee	<u>t</u> Pump	Intake De	pth			Cap		
Total Vo	olume Pur	ged	∕ S gal	lons PID	Well Head			_	Cocina		
fharge voir	ime (minnitei	rs per munute) 🤉	k time duration	(minutes) x	0.00026 gal/m	illiliterl			Locked		
PURGE	Water in cast DATA	ng – 2" diamet	er = 0.163 gail	ons per foot	of depth, 4" dia	ameter = 0.65	3 gallons per f	oot of depth	Collar		
	Depth to	D. D.									
Time	Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	C		
0925			17 7		13.45	45.4	0.86		Comments		
				1 30	13.71	(3,-	0.86	67.6			
							· · · · · · · · · · · · · · · · · · ·				

					i i						
P	urge Obse	rvations:		Tir	A KICH	0 000					
P	urge Wate	r Container	rized:		100						
ЕОШРМ	ENT DOC	CUMENTA	TION								
<u>zoon</u>	LIVI DOC	OWIENTA	HON								
Type of F	ump:NA	 Sampled 	by bailer								
Type of T	ubing: N	ĪΑ									
Type of V	Vater Qua	lity Meter:	YSI Pro Pl	us; LaMo	tte 2020		Calibrat	ted·			
		RAMETER				LOC	ATION N	OTES			
Parameter		imes S	Sample Col	lected							
VOC _s	2 X 4	10 ml	<u>\</u>	<u></u>	_						
					_						
					_						
					_						
	· · · · · · · · · · · · · · · · · · ·				_						
Signature	·										
Checked 1	Ву:				_ _						



Project Name Scio St B Location ID Activity Time SAMPLING NOTES Initial Depth to Water	V-4 45	Samp	Sample ID	0170	<u> </u>	≼ Sa Da	b #4226_ mpling Event # 05 ate9 23 15 ell Diameter 2 '	
Initial Depth to Water Final Depth to Water Screen Length Total Volume Purged [purge volume (milliliters per mi Volume of Water in casing – 2" PURGE DATA	feet rightary feet gall inute) x time duration	Well Pump ons PID V (minutes) x ().00026 gal/mi	pth	feet	<u>t</u> Wo	ell Diameterell Integrity: Cap	
Depth to Purge		рН	Dissolved	Turbidity	Cond.	ORP		
Time Water (ft) (ml/r	min) (deg. C)	(units)	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments	
Purge Observation Purge Water Content of the Conten	ons:		- 15.02		0.84	4.EP		
True of DomestiA Com								
Type of Pump: NA – Sar Type of Tubing: NA Type of Water Quality N		lus; LaMo			Calibra	ated:		
ANALYTICAL PARAMETERS Parameter Volumes Sample Collected VOCs 2 x 40 ml								
Signature:Checked By:						77.2		



Location	n ID	0 St BCP S M W - S 090S		Field Samp	Sample ID le Time	MW 5	- 09231 10	S Sam	#4226 apling Event # 05 e9 23(15
SAMPL	ING NOTI	<u>es</u>							
Final De Screen I Total Vo [purge volu	epth to Wa Lengtholume Purg lime (milliliter Water in casi	ater 7. ter ged~ \leftilde{\sigma} rs per minute) x ng - 2" diamete	feet feet gall time duration	Well Pump ons PID V (minutes) x	Depth Intake De Well Head 0.00026 gal/mi	pth	feet	g Wel	Il Diameter 2 Cap Casing Cocked Collar
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
EQUIPN	Purge Wate	ervations: _er Containe	19.5 Tirized:	6.89 (Cb)d	7.99	US	7.11	171.4	
	Pump: NA Tubing:	. – Sampled	by bailer						
		ality Meter:	YSI Pro P	lus; LaM	otte 2020		Calibra	ated:	
	TICAL PA	ARAMETEI lumes 40 ml				<u>LO</u>	CATION N		
Signatur	re: d By:								



Project 1	Name Sci	o St BCP S	ite					Jo	b# 4226	
Location	ı ID	MW-1	0	Field	Sample ID	MW6-	092315		Sampling Event # 05	
Activity	Time	091		Samp	ole Time	097	0		ate 91231	
SAMPL	ING NOTI	ES								
Initial D	epth to W	ater 9	.21 feet	Meas	urement Po	oint <u>TOI</u>	R	w	ell Diameter 2"	
Final De	oth to Wa	ter	feet	Well	Depth		feet	. W	ell Integrity:	
Screen I	ength	ged	feet	_ Pump	Intake De	pth			Cap	
Total Vo	olume Purg	ged	S gall	ons PID V	Well Head			-	Casing	
		rs per minute) x ng – 2" diamet			_	-	2 collons man fr		Cap Casing Locked Collar	
PURGE		ng – 2 dramer	ci = 0.103 gaii	ons per 100t (n depui, 4 dia	imeter = 0.03.	o ganons per re	oot or depth	Collar	
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp.	pH (vmita)	Dissolved	Turbidity	Cond.	ORP		
	water (It)		(deg. C)	(units)	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments	
2190			18.2	6.87	7.86	98.4	1.32	23.4		
	-									
						-				
								_		
F	Purge Obse	ervations: _	- W	Turb,	d, 100	Sligh	t add	25		
F	Purge Wate	er Containe	rized:	<u> </u>		U				
EOLUPA	MENT DO	CUMENTA	TION							
LOCITI	ILITI DO	CONIDITIA	IIOII							
Type of	Pump:NA	- Sampled	by bailer							
Type of	Tubing:	NA			_					
Type of	Water Qu	ality Meter:	YSI Pro P	lus; LaMo	otte 2020		Calibra	ited:		
4 DT 4 T T7	MICAI DA	Th. A. B. #75777777	20				~			
ANALY Paramet		RAMETEI lumes	<u>ks</u> Sample Co	llootod		LO	<u>CATION N</u>	OTES		
VOCs		40 ml	Sample Co	mecteu						
<u> </u>	Z X	40 III								
					_ -					
	(f)									
~.								·		
Signatur	e:									
Cnecked	ı ву:		_							



Project I Location Activity	Name <u>Sci</u> n ID	o St BCP S MW D93	ite	Field Samp	Sample ID	Mw3	09 73	315 Sa	ob #4226_ ampling Event # 05 ate9\23/15_
SAMPL	ING NOT	<u>es</u>							
Final De Screen I Total Vo [purge volu	epth to Wa Lengtholume Purg lime (milliliter Water in casi	ater	feet feet Seall time duration	Well Pump ons PID V (minutes) x	Depth Intake De Well Head 0.00026 gal/mi	pth	feet	; W	Vell Diameter
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
<i>0</i> 934			17.9	6.89	_	20.7	2.21	99.6	Comments
	_	ervations: _		Cli	earin	o od	05		
<u>EQUIPN</u>	MENT DO	er Containe CUMENTA - Sampled	TION						
Type of	Tubing:			lus; LaMo	 otte 2020		Calibra	ited:	
ANALY Paramet VOCs	er <u>V</u> ol	ARAMETEI lumes 40 ml	Sample Co	ollected		<u>LO</u>	CATION N	OTES	LIVE QUIL
Signatur Checked					_				

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Location	ID	St BCP S MW - 8 LOOS		Field Samp	Sample ID le Time	MW.	8-097	315 Sa	b #4226_ ampling Event # 05 ate9123115
SAMPLI	NG NOTE	<u>es</u>							
Final Dep Screen Lo Total Vol [purge volume]	oth to War ength lume Purg me (milliliter Water in casin	ged	feet feet Section gall time duration	Well Pump ons PID V (minutes) x (Depth Intake De Well Head 0.00026 gal/mi	pth	feet	<u>t</u> W - -	Vell Diameter 2 " Vell Integrity: Cap / Casing / Locked / Collar /
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1005		-	18.5	7.33	1.26	11.27	484	-165.5	*
				~					
EQUIPM Type of I Type of V	Pump: NA Pubing: 1 Water Qua FICAL PA	CUMENTA - Sampled	TION by bailer YSI Pro P	lus; LaMo	_			ated:	205
Signature	e: By:								

Lu Engineers ENVIRONMENTAL TRANSPORTATION CIVIL

Project Name <u>Sc</u> Location ID Activity Time			Field Samp	Sample ID ble Time	MWC	1-09731	Sa Sa	b #4226_ mpling Event # 05 ate9\23\15
SAMPLING NOT		. = 0						Z- 1.
Initial Depth to W Final Depth to W Screen Length Total Volume Pu [purge volume (millilit Volume of Water in care PURGE DATA]	aterrgeders per minute) >	feet feet gall time duration	Well Pumpons PID V (minutes) x	Depth Depth Depth and Depth and Depth and Depth and Depth and Depth and Depth Depth Depth Depth Depth Depth and Depth and Dept	pth	feet	. W	ell Diameter ell Integrity: Cap Casing Locked Collar
Time Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
Purge wa	ter Containe	rizea:	Clear	2.12 SIIJI	13.7 2 pe-	4.06	11.6	
Type of Pump: N. Type of Tubing: _ Type of Water Quantum ANALYTICAL P Parameter Vo	A – Sampled NA uality Meter	l by bailer : YSI Pro P	. "	otte 2020	<u>LO</u> (Calibra CATION N		
	x 40 ml			 				



Project Name Scio St	BCP Site					Jo	b# 4226			
ocation ID Field Sample ID <u>Points</u> Sampling Event # 05										
Activity Time		Samp	ole Time	page	1)	D	ate 9123115			
SAMPLING NOTES	AMPLING NOTES									
Initial Depth to Water	f	<u>feet</u> Meas	urement P	oint <u>TOI</u>	2	W	ell Diameter			
Final Depth to Water <u>feet</u> Well Depth <u>feet</u> Well Integrity:										
Screen Length				epth		_	Cap			
Total Volume Purged		-	Casing							
[purge volume (milliliters per	Locked									
Volume of Water in casing –:	2" diameter = 0.163	gallons per foot o	of depth, 4" di	ameter = 0.653	3 gallons per f	oot of depth	Collar			
PURGE DATA										
Depth to Pur	rge Rate Temp.	рН	Dissolved	Turbidity	Cond.	ORP				
	nl/min) (deg. C)	A Second Inc.	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments			
1043 IP1	19.2		20.05		1.32	6.9	very mobil x			
1038 102	- 18.4	7.17	6.38	-48ND	1-80	-64.2	FU Sid			
1030 IP3 -	- 18.0	0 7.27	3.19	LOIS AU	1.30	-S3.8	Tribid Shisher			
1045 IP4	- 19.2	- 7.36	20.30	NA*	0.00	4207	Iven Nobil+			
1048 1PS	- 19.0	7.37	23.69	NA*	1.58	78.5				
1051 106	- 184	7.43	19.70	73.2	2,18	8,2				
1056 18 7	7 18.6		15.52	NA*	254	2.1	VERY THRID			
1020 108	- 18.8	7.34	5.12	MAX	0.92	-141.9	HEAVY TUBBLE! OUR			
1101 109	- 18.2		6.03	NA*	2.19	-49.5	YEAY TURSID			
1101, 19 10	- 17.5	7.25	2.66	NA*	3,18	-1128	YERY TURBION STOP			
1115 18 11	- 17.7	7.54	20.20	50,8	2.38	2.9				
1111 1P12	- 17.(0 7.58	16.99	Mark	1.73	-59.8	VERLY TURB ,0*			
Purge Observa										
Purge Water C	Containerized: _			·						
EQUIPMENT DOCUM	<u>MENTATION</u>									
Type of Pump: NA – S	Sampled by boils	ar.								
Type of Fullip. NA = S Type of Tubing: NA		<u> </u>								
Type of Water Quality		o Plus: LaMe	 otte 2020		Calibr	ated:				
Type of Water Quality	y Meter. <u>15111</u>	o i ius, Laivi	<u> </u>		Canon					
ANALYTICAL PARA	METERS			LO	CATION N	OTES				
Parameter Volume	es Sample	Collected								
VOCs 2 x 40 :	ml									
-1+1										
	·····									
Cionatura:										
Signature:Checked By:										

ADDITI	ONAL PU	RGE DATA	<u> </u>	1P P.	OINTS	(page	2)	912	13/15
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity	Cond. (mS/cm)	Redox (mV)	Comments
1115	1813	_	18,4	7.44		1963 Au	2.37	7.2	
1118	if w	-	18.0	7.30	5.22	NA*	1.55	73.2	VERY TURBUD
1122	1815	_	18.8	6.76	1.38	MA	4.64	-62.8	VERY DO
1027	1P16	(183	7.14	13.45	て女米	1.34	-60.5	VERY DEBIO
							•		
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		11							
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Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: MW-05-09-18-14

Lab Sample ID:144103-01Date Sampled:9/18/2014Matrix:GroundwaterDate Received:9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/24/2014
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/24/2014
Benzene	< 0.700	ug/L		9/24/2014
Ethylbenzene	< 2.00	ug/L		9/24/2014
Isopropylbenzene	< 2.00	ug/L		9/24/2014
m,p-Xylene	< 2.00	ug/L		9/24/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/24/2014
Naphthalene	< 5.00	ug/L		9/24/2014
n-Butylbenzene	< 2.00	ug/L		9/24/2014
n-Propylbenzene	< 2.00	ug/L		9/24/2014
o-Xylene	< 2.00	ug/L		9/24/2014
p-Isopropyltoluene	< 2.00	ug/L		9/24/2014
sec-Butylbenzene	< 2.00	ug/L		9/24/2014
tert-Butylbenzene	< 2.00	ug/L		9/24/2014
Toluene	< 2.00	ug/L		9/24/2014
Mothed Deference(c). EDA 9260C				

Method Reference(s): EPA 8260C EPA 5030

Data File: x17099.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: MW-06-09-18-14

Lab Sample ID:144103-02Date Sampled:9/18/2014Matrix:GroundwaterDate Received:9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/24/2014
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/24/2014
Benzene	< 0.700	ug/L		9/24/2014
Ethylbenzene	< 2.00	ug/L		9/24/2014
Isopropylbenzene	< 2.00	ug/L		9/24/2014
m,p-Xylene	< 2.00	ug/L		9/24/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/24/2014
Naphthalene	< 5.00	ug/L		9/24/2014
n-Butylbenzene	< 2.00	ug/L		9/24/2014
n-Propylbenzene	< 2.00	ug/L		9/24/2014
o-Xylene	< 2.00	ug/L		9/24/2014
p-Isopropyltoluene	< 2.00	ug/L		9/24/2014
sec-Butylbenzene	< 2.00	ug/L		9/24/2014
tert-Butylbenzene	< 2.00	ug/L		9/24/2014
Toluene	< 2.00	ug/L		9/24/2014
Mothed Deference(c). EDA 9260C				

Method Reference(s): EPA 8260C EPA 5030

Data File: x17098.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: MW-02-09-18-14

Lab Sample ID:144103-03Date Sampled:9/18/2014Matrix:GroundwaterDate Received:9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/24/2014
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/24/2014
Benzene	< 0.700	ug/L		9/24/2014
Ethylbenzene	< 2.00	ug/L		9/24/2014
Isopropylbenzene	< 2.00	ug/L		9/24/2014
m,p-Xylene	< 2.00	ug/L		9/24/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/24/2014
Naphthalene	< 5.00	ug/L		9/24/2014
n-Butylbenzene	< 2.00	ug/L		9/24/2014
n-Propylbenzene	< 2.00	ug/L		9/24/2014
o-Xylene	< 2.00	ug/L		9/24/2014
p-Isopropyltoluene	< 2.00	ug/L		9/24/2014
sec-Butylbenzene	< 2.00	ug/L		9/24/2014
tert-Butylbenzene	< 2.00	ug/L		9/24/2014
Toluene	< 2.00	ug/L		9/24/2014
Mathod Reference(s): FPA 82600				

Method Reference(s): EPA 8260C EPA 5030

Data File: x17097.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: MW-08-09-18-14

Lab Sample ID:144103-04Date Sampled:9/18/2014Matrix:GroundwaterDate Received:9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	41.8	ug/L		9/25/2014
1,3,5-Trimethylbenzene	3.15	ug/L		9/25/2014
Benzene	8.74	ug/L		9/25/2014
Ethylbenzene	60.8	ug/L		9/25/2014
Isopropylbenzene	6.71	ug/L		9/25/2014
m,p-Xylene	53.7	ug/L		9/25/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/25/2014
Naphthalene	9.24	ug/L		9/25/2014
n-Butylbenzene	1.59	ug/L	J	9/25/2014
n-Propylbenzene	13.3	ug/L		9/25/2014
o-Xylene	4.21	ug/L		9/25/2014
p-Isopropyltoluene	< 2.00	ug/L		9/25/2014
sec-Butylbenzene	< 2.00	ug/L		9/25/2014
tert-Butylbenzene	< 2.00	ug/L		9/25/2014
Toluene	4.90	ug/L		9/25/2014
Mathad Deference(a), EDA 9260C				

Method Reference(s): EPA 8260C EPA 5030

Data File: x17115.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: MW-07-09-18-14

Lab Sample ID:144103-05Date Sampled:9/18/2014Matrix:GroundwaterDate Received:9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/24/2014
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/24/2014
Benzene	< 0.700	ug/L		9/24/2014
Ethylbenzene	< 2.00	ug/L		9/24/2014
Isopropylbenzene	< 2.00	ug/L		9/24/2014
m,p-Xylene	< 2.00	ug/L		9/24/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/24/2014
Naphthalene	< 5.00	ug/L		9/24/2014
n-Butylbenzene	< 2.00	ug/L		9/24/2014
n-Propylbenzene	< 2.00	ug/L		9/24/2014
o-Xylene	< 2.00	ug/L		9/24/2014
p-Isopropyltoluene	< 2.00	ug/L		9/24/2014
sec-Butylbenzene	< 2.00	ug/L		9/24/2014
tert-Butylbenzene	< 2.00	ug/L		9/24/2014
Toluene	< 2.00	ug/L		9/24/2014
Method Reference(s): EPA 8260C				

EPA 5030 **Data File:** x17095.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: MW-09-09-18-14

Lab Sample ID:144103-06Date Sampled:9/18/2014Matrix:GroundwaterDate Received:9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/25/2014
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/25/2014
Benzene	1.53	ug/L		9/25/2014
Ethylbenzene	5.99	ug/L		9/25/2014
Isopropylbenzene	6.05	ug/L		9/25/2014
m,p-Xylene	1.02	ug/L	J	9/25/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/25/2014
Naphthalene	< 5.00	ug/L		9/25/2014
n-Butylbenzene	1.38	ug/L	J	9/25/2014
n-Propylbenzene	10.3	ug/L		9/25/2014
o-Xylene	< 2.00	ug/L		9/25/2014
p-Isopropyltoluene	< 2.00	ug/L		9/25/2014
sec-Butylbenzene	1.51	ug/L	J	9/25/2014
tert-Butylbenzene	< 2.00	ug/L		9/25/2014
Toluene	< 2.00	ug/L		9/25/2014

Method Reference(s): EPA 8260C EPA 5030

Data File: x17114.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: MW-04-09-18-14

Lab Sample ID:144103-07Date Sampled:9/18/2014Matrix:GroundwaterDate Received:9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/24/2014
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/24/2014
Benzene	0.409	ug/L	J	9/24/2014
Ethylbenzene	< 2.00	ug/L		9/24/2014
Isopropylbenzene	< 2.00	ug/L		9/24/2014
m,p-Xylene	< 2.00	ug/L		9/24/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/24/2014
Naphthalene	< 5.00	ug/L		9/24/2014
n-Butylbenzene	< 2.00	ug/L		9/24/2014
n-Propylbenzene	< 2.00	ug/L		9/24/2014
o-Xylene	< 2.00	ug/L		9/24/2014
p-Isopropyltoluene	< 2.00	ug/L		9/24/2014
sec-Butylbenzene	< 2.00	ug/L		9/24/2014
tert-Butylbenzene	< 2.00	ug/L		9/24/2014
Toluene	< 2.00	ug/L		9/24/2014
Mothed Deference(a), EDA 0260C				

Method Reference(s): EPA 8260C EPA 5030

Data File: x17093.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: Blind-DUP-07-18-14

Lab Sample ID:144103-08Date Sampled:9/18/2014Matrix:GroundwaterDate Received:9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/24/2014
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/24/2014
Benzene	< 0.700	ug/L		9/24/2014
Ethylbenzene	< 2.00	ug/L		9/24/2014
Isopropylbenzene	< 2.00	ug/L		9/24/2014
m,p-Xylene	< 2.00	ug/L		9/24/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/24/2014
Naphthalene	< 5.00	ug/L		9/24/2014
n-Butylbenzene	< 2.00	ug/L		9/24/2014
n-Propylbenzene	< 2.00	ug/L		9/24/2014
o-Xylene	< 2.00	ug/L		9/24/2014
p-Isopropyltoluene	< 2.00	ug/L		9/24/2014
sec-Butylbenzene	< 2.00	ug/L		9/24/2014
tert-Butylbenzene	< 2.00	ug/L		9/24/2014
Toluene	< 2.00	ug/L		9/24/2014
Method Reference(s): EPA 8260C				

EPA 5030 **Data File:** x17092.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: Trip Blank T-540

Lab Sample ID:144103-09Date Sampled:9/18/2014Matrix:GroundwaterDate Received:9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/24/2014
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/24/2014
Benzene	< 0.700	ug/L		9/24/2014
Ethylbenzene	< 2.00	ug/L		9/24/2014
Isopropylbenzene	< 2.00	ug/L		9/24/2014
m,p-Xylene	< 2.00	ug/L		9/24/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/24/2014
Naphthalene	< 5.00	ug/L		9/24/2014
n-Butylbenzene	< 2.00	ug/L		9/24/2014
n-Propylbenzene	< 2.00	ug/L		9/24/2014
o-Xylene	< 2.00	ug/L		9/24/2014
p-Isopropyltoluene	< 2.00	ug/L		9/24/2014
sec-Butylbenzene	< 2.00	ug/L		9/24/2014
tert-Butylbenzene	< 2.00	ug/L		9/24/2014
Toluene	< 2.00	ug/L		9/24/2014
Method Reference(s): EPA 8260C				

EPA 5030 **Data File:** x17091.D



Method Blank Report

Client:

Lu Engineers, Inc.

Project Reference:

City of Roch. 4226 Scio St.

Lab Project ID:

144103

SDG #:

4103-01

Matrix:

Groundwater

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	<2.00	ug/L		9/24/2014
1,3,5-Trimethylbenzene	<2.00	ug/L		9/24/2014
Benzene	<0.700	ug/L		9/24/2014
Ethylbenzene	<2.00	ug/L		9/24/2014
Isopropylbenzene	<2.00	ug/L		9/24/2014
m,p-Xylene	<2.00	ug/L		9/24/2014
Methyl tert-butyl Ether	<2.00	ug/L		9/24/2014
Naphthalene	<5.00	ug/L		9/24/2014
n-Butylbenzene	<2.00	ug/L		9/24/2014
n-Propylbenzene	<2.00	ug/L		9/24/2014
o-Xylene	<2.00	ug/L		9/24/2014
p-Isopropyltoluene	<2.00	ug/L		9/24/2014
sec-Butylbenzene	<2.00	ug/L		9/24/2014
tert-Butylbenzene	<2.00	ug/L		9/24/2014
Toluene	<2.00	ug/L		9/24/2014

Method Reference(s):

EPA 8260C

EPA 5030

Data File:

x17075.D

QC Batch ID:

voaw092414

QC Number:

1



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QC Report for Laboratory Control Sample

Lu Engineers, Inc.

Client:

Project Reference: City of Roch. 4226 Scio St.

SDG#: Lab Project ID: 144103

4103-01

Groundwater

Matrix:

Volatile Organics

Data File: QC Number: QC Batch ID:	Method Reference(s):	Toluene	Ethylbenzene	Benzene	Analyte	
EPA 5030 x17074.D 1 voaw092414	EPA 8260C					
		50.0	50.0	50.0	Added	<u>Spike</u>
		ug/L	ug/L	ug/L	Units	<u>Spike</u>
		52.1	49.8	55.0	Result	LCS
		104	99.7	110	Recovery	LCS %
		84 • 112	82.2 - 113	85.2 - 115	<u>Limits</u>	% Rec
					Outliers	LCS
		9/24/2014	9/24/2014	9/24/2014	<u>Analyzed</u>	<u>Date</u>

compliance with the sample condition requirements upon receipt. This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including



Method Blank Report

Client:

Lu Engineers, Inc.

Project Reference:

City of Roch. 4226 Scio St.

Lab Project ID:

144103

SDG #:

4103-01

Matrix:

5.0

Groundwater

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	<2.00	ug/L		9/25/2014
1,3,5-Trimethylbenzene	<2.00	ug/L		9/25/2014
Benzene	< 0.700	ug/L		9/25/2014
Ethylbenzene	<2.00	ug/L		9/25/2014
Isopropylbenzene	<2.00	ug/L		9/25/2014
m,p-Xylene	<2.00	ug/L		9/25/2014
Methyl tert-butyl Ether	<2.00	ug/L		9/25/2014
Naphthalene	<5.00	ug/L		9/25/2014
n-Butylbenzene	<2.00	ug/L		9/25/2014
n-Propylbenzene	<2.00	ug/L		9/25/2014
o-Xylene	<2.00	ug/L		9/25/2014
p-Isopropyltoluene	<2.00	ug/L		9/25/2014
sec-Butylbenzene	<2.00	ug/L		9/25/2014
tert-Butylbenzene	<2.00	ug/L		9/25/2014
Toluene	<2.00	ug/L		9/25/2014

Method Reference(s):

EPA 8260C

EPA 5030

Data File:

x17107.D

QC Batch ID:

voaw092514

QC Number:

1

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



QC Report for Laboratory Control Sample

Lu Engineers, Inc.

Client:

Project Reference: City of Roch. 4226 Scio St.

Lab Project ID: 144103

4103-01

SDG #:

Matrix: Groundwater

Volatile Organics

QC Batch ID:	QC Number:	Data File:		Method Reference(s):	Toluene	Ethylbenzene	Benzene	Analyte	
voaw092514	1	x17106.D	EPA 5030	EPA 8260C					
					50.0	50.0	50.0	Added	<u>Spike</u>
					ug/L	ug/L	ug/L	Units	Spike
					53.1	51.0	55,8	Result	<u>LCS</u>
					106	102	112	Recovery	LCS %
	•	÷			84 - 112	82.2 - 113	85.2 - 115	<u>Limits</u>	% Rec
								Outliers	LCS
		••			9/25/2014	9/25/2014	9/25/2014	<u>Analyzed</u>	<u>Date</u>

compliance with the sample condition requirements upon receipt. This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including

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Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside OC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"V" = Sample concentration is >10 times the spike. No meaningful Spike Recovery can be calculated.

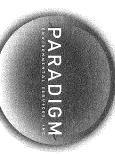
"I" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted OC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

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CHAIN OF CUSTODY

Control Cost (5 4/16/14) P.I.F. P.I.F.	55 55 55 55 55 55 55 55 55 55 55 55 55	Date/Time Date/Time Date/Time Date/Time	Sampled By Referred By Referred @ Lab By	1448 X MW OH OG OG 8 1430 X MW OH OG OG 8 1440 1450 14	Reporit upon lab approval; add Batch QC Category A ASA Category B Cother please indicate:	ime y contingent upon lab Category A Category B Other please indicate:	7 3 3 3 3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4
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CHAIN OF CUSTODY

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Chain of Custody Supplement

Client:	Ly	Completed by:	molylail
Lab Project ID:	144103	Date:	9/18/14
		ion Requirements 210/241/242/243/244	
Condition	NELAC compliance with the sample Yes	e condition requirements upor No	n receipt N/A
Container Type			
Comments			
Transferred to method- compliant container			
Headspace (<1 mL) Comments			
Preservation Comments			
Chlorine Absent (<0.10 ppm per test strip) Comments			
Holding Time Comments			
Temperature Comments	20°C e1600hrs	custoly se als N/A	client deliver
Sufficient Sample Quantity Comments			



Analytical Report For

Lu Engineers, Inc.

For Lab Project ID

145526

Referencing

City of Rochester, 62-64 Scio St.

Prepared

Tuesday, December 30, 2014

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

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Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW02_12-22-14

Lab Sample ID:145526-01Date Sampled:12/22/2014Matrix:WaterDate Received:12/22/2014

Volatile Organics (Petroleum)

Analyte	Result	<u>Units</u>		Qualifier	Date Analy	<u>vzed</u>
1,2,4-Trimethylbenzene	< 2.00	ug/L			12/23/2014	19:49
1,3,5-Trimethylbenzene	< 2.00	ug/L			12/23/2014	19:49
Benzene	< 0.700	ug/L			12/23/2014	19:49
Ethylbenzene	< 2.00	ug/L			12/23/2014	19:49
Isopropylbenzene	< 2.00	ug/L			12/23/2014	19:49
m,p-Xylene	< 2.00	ug/L			12/23/2014	19:49
Methyl tert-butyl Ether	< 2.00	ug/L			12/23/2014	19:49
Naphthalene	< 5.00	ug/L			12/23/2014	19:49
n-Butylbenzene	< 2.00	ug/L			12/23/2014	19:49
n-Propylbenzene	< 2.00	ug/L			12/23/2014	19:49
o-Xylene	< 2.00	ug/L			12/23/2014	19:49
p-Isopropyltoluene	< 2.00	ug/L			12/23/2014	19:49
sec-Butylbenzene	< 2.00	ug/L			12/23/2014	19:49
tert-Butylbenzene	< 2.00	ug/L			12/23/2014	19:49
Toluene	< 2.00	ug/L			12/23/2014	19:49
<u>Surrogate</u>	Percent 1	Recovery	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4	91	5	85.7 - 112		12/23/2014	19:49
4-Bromofluorobenzene	91	6	86.6 - 110		12/23/2014	19:49
Pentafluorobenzene	94	5	94.6 - 106	*	12/23/2014	19:49
Toluene-D8	95	5.9	91.8 - 107		12/23/2014	19:49

Method Reference(s): EPA 8260C

EPA 5030

Data File: x19633.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW04_12-22-14

Lab Sample ID:145526-02Date Sampled:12/22/2014Matrix:WaterDate Received:12/22/2014

Volatile Organics (Petroleum)

<u>Analyte</u>	Result	<u>Units</u>		Qualifier	Date Analy	<u>yzed</u>
1,2,4-Trimethylbenzene	< 2.00	ug/L			12/23/2014	19:26
1,3,5-Trimethylbenzene	< 2.00	ug/L			12/23/2014	19:26
Benzene	< 0.700	ug/L			12/23/2014	19:26
Ethylbenzene	< 2.00	ug/L			12/23/2014	19:26
Isopropylbenzene	< 2.00	ug/L			12/23/2014	19:26
m,p-Xylene	< 2.00	ug/L			12/23/2014	19:26
Methyl tert-butyl Ether	< 2.00	ug/L			12/23/2014	19:26
Naphthalene	< 5.00	ug/L			12/23/2014	19:26
n-Butylbenzene	< 2.00	ug/L			12/23/2014	19:26
n-Propylbenzene	< 2.00	ug/L			12/23/2014	19:26
o-Xylene	< 2.00	ug/L			12/23/2014	19:26
p-Isopropyltoluene	< 2.00	ug/L			12/23/2014	19:26
sec-Butylbenzene	< 2.00	ug/L			12/23/2014	19:26
tert-Butylbenzene	< 2.00	ug/L			12/23/2014	19:26
Toluene	< 2.00	ug/L			12/23/2014	19:26
Surrogate	Percent	t Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4	9	1.0	85.7 - 112		12/23/2014	19:26
4-Bromofluorobenzene	g	3.4	86.6 - 110		12/23/2014	19:26
Pentafluorobenzene	9	6.2	94.6 - 106		12/23/2014	19:26
Toluene-D8	9	6.6	91.8 - 107		12/23/2014	19:26

Method Reference(s): EPA 8260C

EPA 5030

Data File: x19632.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW06_12-22-14

Lab Sample ID:145526-03Date Sampled:12/22/2014Matrix:WaterDate Received:12/22/2014

Volatile Organics (Petroleum)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		Qualifier	Date Analy	<u>vzed</u>
1,2,4-Trimethylbenzene	< 2.00	ug/L			12/24/2014	19:29
1,3,5-Trimethylbenzene	< 2.00	ug/L			12/24/2014	19:29
Benzene	< 0.700	ug/L			12/24/2014	19:29
Ethylbenzene	< 2.00	ug/L			12/24/2014	19:29
Isopropylbenzene	< 2.00	ug/L			12/24/2014	19:29
m,p-Xylene	< 2.00	ug/L			12/24/2014	19:29
Methyl tert-butyl Ether	< 2.00	ug/L			12/24/2014	19:29
Naphthalene	< 5.00	ug/L			12/24/2014	19:29
n-Butylbenzene	< 2.00	ug/L			12/24/2014	19:29
n-Propylbenzene	< 2.00	ug/L			12/24/2014	19:29
o-Xylene	< 2.00	ug/L			12/24/2014	19:29
p-Isopropyltoluene	< 2.00	ug/L			12/24/2014	19:29
sec-Butylbenzene	< 2.00	ug/L			12/24/2014	19:29
tert-Butylbenzene	< 2.00	ug/L			12/24/2014	19:29
Toluene	< 2.00	ug/L			12/24/2014	19:29
Surrogate	Percent 1	<u>Recovery</u>	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4	90	.4	85.7 - 112		12/24/2014	19:29
4-Bromofluorobenzene	92	2.4	86.6 - 110		12/24/2014	19:29
Pentafluorobenzene	97	'.1	94.6 - 106		12/24/2014	19:29
Toluene-D8	97	'.6	91.8 - 107		12/24/2014	19:29

Method Reference(s): EPA 8260C

EPA 5030

Data File: x19692.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW07_12-22-14

Lab Sample ID:145526-04Date Sampled:12/22/2014Matrix:WaterDate Received:12/22/2014

Volatile Organics (Petroleum)

<u>Analyte</u>	Result	<u>Units</u>		Qualifier	Date Analy	<u>yzed</u>
1,2,4-Trimethylbenzene	< 2.00	ug/L			12/23/2014	19:02
1,3,5-Trimethylbenzene	< 2.00	ug/L			12/23/2014	19:02
Benzene	< 0.700	ug/L			12/23/2014	19:02
Ethylbenzene	< 2.00	ug/L			12/23/2014	19:02
Isopropylbenzene	< 2.00	ug/L			12/23/2014	19:02
m,p-Xylene	6.01	ug/L			12/23/2014	19:02
Methyl tert-butyl Ether	< 2.00	ug/L			12/23/2014	19:02
Naphthalene	< 5.00	ug/L			12/23/2014	19:02
n-Butylbenzene	< 2.00	ug/L			12/23/2014	19:02
n-Propylbenzene	< 2.00	ug/L			12/23/2014	19:02
o-Xylene	< 2.00	ug/L			12/23/2014	19:02
p-Isopropyltoluene	< 2.00	ug/L			12/23/2014	19:02
sec-Butylbenzene	< 2.00	ug/L			12/23/2014	19:02
tert-Butylbenzene	< 2.00	ug/L			12/23/2014	19:02
Toluene	< 2.00	ug/L			12/23/2014	19:02
Surrogate	Percent	Recovery	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4	89	9.4	85.7 - 112		12/23/2014	19:02
4-Bromofluorobenzene	98	3.0	86.6 - 110		12/23/2014	19:02
Pentafluorobenzene	98	3.0	94.6 - 106		12/23/2014	19:02
Toluene-D8	10	01	91.8 - 107		12/23/2014	19:02

Method Reference(s): EPA 8260C

EPA 5030

Data File: x19631.D



Lu Engineers, Inc. Client:

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW08_12-22-14

Lab Sample ID: **Date Sampled:** 12/22/2014 145526-05 **Matrix:** Water **Date Received:** 12/22/2014

Volatile Organics (Petroleum)

Analyte	<u>Result</u>	<u>Units</u>		Qualifier	Date Analy	vzed
1,2,4-Trimethylbenzene	118	ug/L			12/24/2014	19:53
1,3,5-Trimethylbenzene	13.6	ug/L			12/24/2014	19:53
Benzene	25.4	ug/L			12/24/2014	19:53
Ethylbenzene	163	ug/L			12/24/2014	19:53
Isopropylbenzene	16.2	ug/L			12/24/2014	19:53
m,p-Xylene	182	ug/L			12/24/2014	19:53
Methyl tert-butyl Ether	< 4.00	ug/L			12/24/2014	19:53
Naphthalene	38.1	ug/L			12/24/2014	19:53
n-Butylbenzene	5.89	ug/L			12/24/2014	19:53
n-Propylbenzene	32.4	ug/L			12/24/2014	19:53
o-Xylene	16.8	ug/L			12/24/2014	19:53
p-Isopropyltoluene	< 4.00	ug/L			12/24/2014	19:53
sec-Butylbenzene	< 4.00	ug/L			12/24/2014	19:53
tert-Butylbenzene	< 4.00	ug/L			12/24/2014	19:53
Toluene	17.0	ug/L			12/24/2014	19:53
<u>Surrogate</u>	Percent	Recovery	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4	86	5.8	85.7 - 112		12/24/2014	19:53
4-Bromofluorobenzene	97	7.3	86.6 - 110		12/24/2014	19:53
Pentafluorobenzene	99	0.3	94.6 - 106		12/24/2014	19:53
Toluene-D8	10)2	91.8 - 107		12/24/2014	19:53

Method Reference(s): EPA 8260C

EPA 5030 x19693.D

Data File:



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW09_12-22-14

Lab Sample ID:145526-06Date Sampled:12/22/2014Matrix:WaterDate Received:12/22/2014

Volatile Organics (Petroleum)

<u>Analyte</u>	Result	<u>Units</u>		Qualifier	Date Analy	<u>vzed</u>
1,2,4-Trimethylbenzene	< 2.00	ug/L			12/23/2014	18:39
1,3,5-Trimethylbenzene	< 2.00	ug/L			12/23/2014	18:39
Benzene	1.75	ug/L			12/23/2014	18:39
Ethylbenzene	7.88	ug/L			12/23/2014	18:39
Isopropylbenzene	4.52	ug/L			12/23/2014	18:39
m,p-Xylene	2.34	ug/L			12/23/2014	18:39
Methyl tert-butyl Ether	< 2.00	ug/L			12/23/2014	18:39
Naphthalene	< 5.00	ug/L			12/23/2014	18:39
n-Butylbenzene	< 2.00	ug/L			12/23/2014	18:39
n-Propylbenzene	10.3	ug/L			12/23/2014	18:39
o-Xylene	< 2.00	ug/L			12/23/2014	18:39
p-Isopropyltoluene	< 2.00	ug/L			12/23/2014	18:39
sec-Butylbenzene	< 2.00	ug/L			12/23/2014	18:39
tert-Butylbenzene	< 2.00	ug/L			12/23/2014	18:39
Toluene	< 2.00	ug/L			12/23/2014	18:39
Surrogate	Percent I	Recovery	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4	91	.3	85.7 - 112		12/23/2014	18:39
4-Bromofluorobenzene	97	.7	86.6 - 110		12/23/2014	18:39
Pentafluorobenzene	98	.6	94.6 - 106		12/23/2014	18:39
Toluene-D8	10	2	91.8 - 107		12/23/2014	18:39

Method Reference(s): EPA 8260C

EPA 5030

Data File: x19630.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: T-583 Trip Blank

Lab Sample ID:145526-07Date Sampled:12/22/2014Matrix:WaterDate Received:12/22/2014

Volatile Organics (Petroleum)

<u>Analyte</u>	Result	<u>Units</u>		Qualifier	Date Analy	<u>yzed</u>
1,2,4-Trimethylbenzene	< 2.00	ug/L			12/23/2014	18:15
1,3,5-Trimethylbenzene	< 2.00	ug/L			12/23/2014	18:15
Benzene	< 0.700	ug/L			12/23/2014	18:15
Ethylbenzene	< 2.00	ug/L			12/23/2014	18:15
Isopropylbenzene	< 2.00	ug/L			12/23/2014	18:15
m,p-Xylene	< 2.00	ug/L			12/23/2014	18:15
Methyl tert-butyl Ether	< 2.00	ug/L			12/23/2014	18:15
Naphthalene	< 5.00	ug/L			12/23/2014	18:15
n-Butylbenzene	< 2.00	ug/L			12/23/2014	18:15
n-Propylbenzene	< 2.00	ug/L			12/23/2014	18:15
o-Xylene	< 2.00	ug/L			12/23/2014	18:15
p-Isopropyltoluene	< 2.00	ug/L			12/23/2014	18:15
sec-Butylbenzene	< 2.00	ug/L			12/23/2014	18:15
tert-Butylbenzene	< 2.00	ug/L			12/23/2014	18:15
Toluene	< 2.00	ug/L			12/23/2014	18:15
Surrogate	Percen	t Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4	ģ	93.0	85.7 - 112		12/23/2014	18:15
4-Bromofluorobenzene	ģ	91.7	86.6 - 110		12/23/2014	18:15
Pentafluorobenzene	Ģ	96.6	94.6 - 106		12/23/2014	18:15
Toluene-D8	ģ	98.0	91.8 - 107		12/23/2014	18:15

Method Reference(s): EPA 8260C

EPA 5030

Data File: x19629.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
"(1)" = Indicates data from primary column used for QC calculation.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Page 9 of 12

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written. between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Page 10 of 12



REPORT TO: CHAIN OF CUSTODY

J > J > D > C	REPORT TO:		INVOICE TO:		f 12
TARAULGIAN SERVICES, 195	orbenti Chenti	CLIENT: ADDRESS:		LAB PROJECTION	e 11 o
	CIPY: STATE:	ZIP: CITY:	STATE. ZIP:	Quotation #: MS 0724)	へ ジ Pag
	S85-385-74177	STRUM 1 PHOME 13		Email: Grey Brduns -	
PROJECT REFERENCE	Ger Adria	ATTN:		Jan Forbus - Ca	Cirke
1 S 10 S	Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	WA - Water DW - Drinking Water WG - Groundwater WW - Wastewater	SO - Soil SL - Sludge	SD - Solid WP - Wipe OL - Oil PT - Paint CK - Caulk AR - Air	- Oil Air
		REQUEST	REQUESTED ANALYSIS		
					ADIGM LAB
DATE COLLECTED TIME COLLECTED O A B B	SAMPLE IDENTIFIER			Chiraline	NUMBER
2 2 2 2 2 2 2 3	12-12-12-12-12-12-12-12-12-12-12-12-12-1	S S S S S S			0
2 1 1242 X	NW94 12-22-14	and a			0
3 ×	25-5-12-22-15	~			0
4 V	NUET 12-12-14	×			07
5 2 ×	MW08-12-22-14				0
	NW09 12-22-14	<			o
713/32	7 - 100%	WA - X	70 6	Dank	0 /
0	per sample label				
9	K1/26/E1 39				
10					
Turnaround Time	Report Supplements	A SETTINE			
Availability contingent upon lab approval; additional fees may apply.	proval; additional fees may apply.	TO STEP TO STEP	1 1/2	Total Cost:	
Standard 5 day Batch QC	Basic EDD	Sampled by	146 12-22-	Tour cost.	
Rush 3 day Category A	NYSDEC EDD	Relinquished By	Date/Time		
Rush 2 day Category B		Received By.	Date/Time	P.I.F.	
Rush 1 day			7	6:10	
Other Other	Other EDD	Received @ Lab By	Date/Time		

Other Rush 1 day Rush 2 day Rush 3 day

Other lease indicate:

Other EDD please indicate:

10°C iced started in freld 10/22/14 14:30

please indicate:



Chain of Custody Supplement

Client:	Ln Engineers	Completed by:	Glenn Pezzulo
Lab Project ID:	145526	Date:	12/22/14
	Sample Condition Per NELAC/ELAP 21	on Requirements 0/241/242/243/244	
N Condition	ELAC compliance with the sample Yes	condition requirements upo No	n receipt N/A
Container Type			
Comments			
Transferred to method- compliant container			\times
Headspace (<1 mL)			
Comments			
Preservation			
Comments			
Chlorine Absent (<0.10 ppm per test strip) Comments			
Holding Time			
Comments			
Temperature Comments	10°C iced started	in freld	
Sufficient Sample Quantity Comments			



Analytical Report For

Lu Engineers, Inc.

For Lab Project ID

151053

Referencing

City of Rochester, 62-64 Scio St.

Prepared

Monday, April 06, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW2-033115

Lab Sample ID:151053-01Date Sampled:3/31/2015Matrix:GroundwaterDate Received:3/31/2015

Volatile Organics (Petroleum)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		Qualifier	Date Anal	yzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			4/3/2015	17:38
1,3,5-Trimethylbenzene	< 2.00	ug/L			4/3/2015	17:38
Benzene	< 0.700	ug/L			4/3/2015	17:38
Ethylbenzene	< 2.00	ug/L			4/3/2015	17:38
Isopropylbenzene	< 2.00	ug/L			4/3/2015	17:38
m,p-Xylene	< 2.00	ug/L			4/3/2015	17:38
Methyl tert-butyl Ether	< 2.00	ug/L			4/3/2015	17:38
Naphthalene	< 5.00	ug/L			4/3/2015	17:38
n-Butylbenzene	< 2.00	ug/L			4/3/2015	17:38
n-Propylbenzene	< 2.00	ug/L			4/3/2015	17:38
o-Xylene	< 2.00	ug/L			4/3/2015	17:38
p-Isopropyltoluene	< 2.00	ug/L			4/3/2015	17:38
sec-Butylbenzene	< 2.00	ug/L			4/3/2015	17:38
tert-Butylbenzene	< 2.00	ug/L			4/3/2015	17:38
Toluene	< 2.00	ug/L			4/3/2015	17:38
Surrogate	Percen	t Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4		105	82.3 - 115		4/3/2015	17:38
4-Bromofluorobenzene	•	93.2	85.5 - 111		4/3/2015	17:38
Pentafluorobenzene	•	96.2	91.2 - 107		4/3/2015	17:38
Toluene-D8	•	99.4	90.9 - 108		4/3/2015	17:38

Method Reference(s): EPA 8260C

EPA 5030

Data File: x21690.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW6-033115

Lab Sample ID:151053-02Date Sampled:3/31/2015Matrix:GroundwaterDate Received:3/31/2015

Volatile Organics (Petroleum)

Analyte	<u>Result</u>	<u>Units</u>		Qualifier	Date Analy	vzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			4/3/2015	17:14
1,3,5-Trimethylbenzene	< 2.00	ug/L			4/3/2015	17:14
Benzene	< 0.700	ug/L			4/3/2015	17:14
Ethylbenzene	< 2.00	ug/L			4/3/2015	17:14
Isopropylbenzene	< 2.00	ug/L			4/3/2015	17:14
m,p-Xylene	< 2.00	ug/L			4/3/2015	17:14
Methyl tert-butyl Ether	< 2.00	ug/L			4/3/2015	17:14
Naphthalene	< 5.00	ug/L			4/3/2015	17:14
n-Butylbenzene	< 2.00	ug/L			4/3/2015	17:14
n-Propylbenzene	< 2.00	ug/L			4/3/2015	17:14
o-Xylene	< 2.00	ug/L			4/3/2015	17:14
p-Isopropyltoluene	< 2.00	ug/L			4/3/2015	17:14
sec-Butylbenzene	< 2.00	ug/L			4/3/2015	17:14
tert-Butylbenzene	< 2.00	ug/L			4/3/2015	17:14
Toluene	< 2.00	ug/L			4/3/2015	17:14
<u>Surrogate</u>	Percent I	Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4	10	4	82.3 - 115		4/3/2015	17:14
4-Bromofluorobenzene	91	.5	85.5 - 111		4/3/2015	17:14
Pentafluorobenzene	96	.8	91.2 - 107		4/3/2015	17:14
Toluene-D8	99	.0	90.9 - 108		4/3/2015	17:14

Method Reference(s): EPA 8260C

EPA 5030

Data File: x21689.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW5-033115

Lab Sample ID:151053-03Date Sampled:3/31/2015Matrix:GroundwaterDate Received:3/31/2015

Volatile Organics (Petroleum)

<u>Analyte</u>	Result	<u>Units</u>		Qualifier	Date Analy	vzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			4/3/2015	16:51
1,3,5-Trimethylbenzene	< 2.00	ug/L			4/3/2015	16:51
Benzene	< 0.700	ug/L			4/3/2015	16:51
Ethylbenzene	< 2.00	ug/L			4/3/2015	16:51
Isopropylbenzene	< 2.00	ug/L			4/3/2015	16:51
m,p-Xylene	< 2.00	ug/L			4/3/2015	16:51
Methyl tert-butyl Ether	< 2.00	ug/L			4/3/2015	16:51
Naphthalene	< 5.00	ug/L			4/3/2015	16:51
n-Butylbenzene	< 2.00	ug/L			4/3/2015	16:51
n-Propylbenzene	< 2.00	ug/L			4/3/2015	16:51
o-Xylene	< 2.00	ug/L			4/3/2015	16:51
p-Isopropyltoluene	< 2.00	ug/L			4/3/2015	16:51
sec-Butylbenzene	< 2.00	ug/L			4/3/2015	16:51
tert-Butylbenzene	< 2.00	ug/L			4/3/2015	16:51
Toluene	< 2.00	ug/L			4/3/2015	16:51
Surrogate	Perce	ent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4		103	82.3 - 115		4/3/2015	16:51
4-Bromofluorobenzene		93.6	85.5 - 111		4/3/2015	16:51
Pentafluorobenzene		97.7	91.2 - 107		4/3/2015	16:51
Toluene-D8		99.6	90.9 - 108		4/3/2015	16:51

Method Reference(s): EPA 8260C

EPA 5030

Data File: x21688.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW4-033115

Lab Sample ID:151053-04Date Sampled:3/31/2015Matrix:GroundwaterDate Received:3/31/2015

Volatile Organics (Petroleum)

Analyte	<u>Result</u>	<u>Units</u>		Qualifier	Date Analy	vzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			4/3/2015	16:27
1,3,5-Trimethylbenzene	< 2.00	ug/L			4/3/2015	16:27
Benzene	0.846	ug/L			4/3/2015	16:27
Ethylbenzene	< 2.00	ug/L			4/3/2015	16:27
Isopropylbenzene	< 2.00	ug/L			4/3/2015	16:27
m,p-Xylene	2.91	ug/L			4/3/2015	16:27
Methyl tert-butyl Ether	< 2.00	ug/L			4/3/2015	16:27
Naphthalene	< 5.00	ug/L			4/3/2015	16:27
n-Butylbenzene	< 2.00	ug/L			4/3/2015	16:27
n-Propylbenzene	< 2.00	ug/L			4/3/2015	16:27
o-Xylene	< 2.00	ug/L			4/3/2015	16:27
p-Isopropyltoluene	< 2.00	ug/L			4/3/2015	16:27
sec-Butylbenzene	< 2.00	ug/L			4/3/2015	16:27
tert-Butylbenzene	< 2.00	ug/L			4/3/2015	16:27
Toluene	< 2.00	ug/L			4/3/2015	16:27
<u>Surrogate</u>	Percent F	Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4	10	3	82.3 - 115		4/3/2015	16:27
4-Bromofluorobenzene	95	.3	85.5 - 111		4/3/2015	16:27
Pentafluorobenzene	96	.6	91.2 - 107		4/3/2015	16:27
Toluene-D8	99	.9	90.9 - 108		4/3/2015	16:27

Method Reference(s): EPA 8260C

EPA 5030

Data File: x21687.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW7-033115

Lab Sample ID:151053-05Date Sampled:3/31/2015Matrix:GroundwaterDate Received:3/31/2015

Volatile Organics (Petroleum)

Analyte	Result	<u>Units</u>		Qualifier	Date Analy	yzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			4/3/2015	16:03
1,3,5-Trimethylbenzene	< 2.00	ug/L			4/3/2015	16:03
Benzene	< 0.700	ug/L			4/3/2015	16:03
Ethylbenzene	< 2.00	ug/L			4/3/2015	16:03
Isopropylbenzene	< 2.00	ug/L			4/3/2015	16:03
m,p-Xylene	< 2.00	ug/L			4/3/2015	16:03
Methyl tert-butyl Ether	< 2.00	ug/L			4/3/2015	16:03
Naphthalene	< 5.00	ug/L			4/3/2015	16:03
n-Butylbenzene	< 2.00	ug/L			4/3/2015	16:03
n-Propylbenzene	< 2.00	ug/L			4/3/2015	16:03
o-Xylene	< 2.00	ug/L			4/3/2015	16:03
p-Isopropyltoluene	< 2.00	ug/L			4/3/2015	16:03
sec-Butylbenzene	< 2.00	ug/L			4/3/2015	16:03
tert-Butylbenzene	< 2.00	ug/L			4/3/2015	16:03
Toluene	< 2.00	ug/L			4/3/2015	16:03
Surrogate	Percen	t Recovery	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4	<u>-</u>	103	82.3 - 115		4/3/2015	16:03
4-Bromofluorobenzene	ģ	06.6	85.5 - 111		4/3/2015	16:03
Pentafluorobenzene	g	8.8	91.2 - 107		4/3/2015	16:03
Toluene-D8	ģ	9.9	90.9 - 108		4/3/2015	16:03

Method Reference(s): EPA 8260C

EPA 5030

Data File: x21686.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW9-033115

Lab Sample ID:151053-06Date Sampled:3/31/2015Matrix:GroundwaterDate Received:3/31/2015

Volatile Organics (Petroleum)

Analyte	Result	<u>Units</u>		Qualifier	Date Anal	vzed
1,2,4-Trimethylbenzene	4.40	ug/L			4/3/2015	15:39
1,3,5-Trimethylbenzene	< 2.00	ug/L			4/3/2015	15:39
Benzene	1.80	ug/L			4/3/2015	15:39
Ethylbenzene	9.74	ug/L			4/3/2015	15:39
Isopropylbenzene	2.24	ug/L			4/3/2015	15:39
m,p-Xylene	10.7	ug/L			4/3/2015	15:39
Methyl tert-butyl Ether	< 2.00	ug/L			4/3/2015	15:39
Naphthalene	5.43	ug/L			4/3/2015	15:39
n-Butylbenzene	< 2.00	ug/L			4/3/2015	15:39
n-Propylbenzene	2.94	ug/L			4/3/2015	15:39
o-Xylene	< 2.00	ug/L			4/3/2015	15:39
p-Isopropyltoluene	< 2.00	ug/L			4/3/2015	15:39
sec-Butylbenzene	< 2.00	ug/L			4/3/2015	15:39
tert-Butylbenzene	< 2.00	ug/L			4/3/2015	15:39
Toluene	< 2.00	ug/L			4/3/2015	15:39
Surrogate	Percent l	Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4	10)3	82.3 - 115		4/3/2015	15:39
4-Bromofluorobenzene	99	.8	85.5 - 111		4/3/2015	15:39
Pentafluorobenzene	99	.9	91.2 - 107		4/3/2015	15:39
Toluene-D8	99	.6	90.9 - 108		4/3/2015	15:39

Method Reference(s): EPA 8260C

EPA 5030

Data File: x21685.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW8-033115

Lab Sample ID:151053-07Date Sampled:3/31/2015Matrix:GroundwaterDate Received:3/31/2015

Volatile Organics (Petroleum)

Analyte	<u>Result</u>	<u>Units</u>		Qualifier	Date Analy	yzed
1,2,4-Trimethylbenzene	549	ug/L			4/3/2015	14:28
1,3,5-Trimethylbenzene	116	ug/L			4/3/2015	14:28
Benzene	47.0	ug/L			4/3/2015	14:28
Ethylbenzene	677	ug/L			4/3/2015	14:28
Isopropylbenzene	36.2	ug/L			4/3/2015	14:28
m,p-Xylene	1420	ug/L			4/3/2015	14:28
Methyl tert-butyl Ether	< 20.0	ug/L			4/3/2015	14:28
Naphthalene	182	ug/L			4/3/2015	14:28
n-Butylbenzene	< 20.0	ug/L			4/3/2015	14:28
n-Propylbenzene	82.2	ug/L			4/3/2015	14:28
o-Xylene	78.2	ug/L			4/3/2015	14:28
p-Isopropyltoluene	< 20.0	ug/L			4/3/2015	14:28
sec-Butylbenzene	< 20.0	ug/L			4/3/2015	14:28
tert-Butylbenzene	< 20.0	ug/L			4/3/2015	14:28
Toluene	94.0	ug/L			4/3/2015	14:28
<u>Surrogate</u>	Percent 1	Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4	10)3	82.3 - 115		4/3/2015	14:28
4-Bromofluorobenzene	99	0.3	85.5 - 111		4/3/2015	14:28
Pentafluorobenzene	10)1	91.2 - 107		4/3/2015	14:28
Toluene-D8	10	01	90.9 - 108		4/3/2015	14:28

Method Reference(s): EPA 8260C

EPA 5030

Data File: x21682.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: BD-033115 **Lab Sample ID:** 151053-08

Lab Sample ID:151053-08Date Sampled:3/31/2015Matrix:GroundwaterDate Received:3/31/2015

Volatile Organics (Petroleum)

Analyte	Result	<u>Units</u>		Qualifier	Date Anal	<u>yzed</u>
1,2,4-Trimethylbenzene	< 2.00	ug/L			4/3/2015	14:04
1,3,5-Trimethylbenzene	< 2.00	ug/L			4/3/2015	14:04
Benzene	< 0.700	ug/L			4/3/2015	14:04
Ethylbenzene	< 2.00	ug/L			4/3/2015	14:04
Isopropylbenzene	< 2.00	ug/L			4/3/2015	14:04
m,p-Xylene	< 2.00	ug/L			4/3/2015	14:04
Methyl tert-butyl Ether	< 2.00	ug/L			4/3/2015	14:04
Naphthalene	< 5.00	ug/L			4/3/2015	14:04
n-Butylbenzene	< 2.00	ug/L			4/3/2015	14:04
n-Propylbenzene	< 2.00	ug/L			4/3/2015	14:04
o-Xylene	< 2.00	ug/L			4/3/2015	14:04
p-Isopropyltoluene	< 2.00	ug/L			4/3/2015	14:04
sec-Butylbenzene	< 2.00	ug/L			4/3/2015	14:04
tert-Butylbenzene	< 2.00	ug/L			4/3/2015	14:04
Toluene	< 2.00	ug/L			4/3/2015	14:04
Surrogate	Percent	Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4	1	06	82.3 - 115		4/3/2015	14:04
4-Bromofluorobenzene	9	2.4	85.5 - 111		4/3/2015	14:04
Pentafluorobenzene	9	5.8	91.2 - 107		4/3/2015	14:04
Toluene-D8	9	8.1	90.9 - 108		4/3/2015	14:04

Method Reference(s): EPA 8260C

EPA 5030

Data File: x21681.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: Trip Blank-033115 (T-592)

Lab Sample ID:151053-09Date Sampled:3/31/2015Matrix:WaterDate Received:3/31/2015

Volatile Organics (Petroleum)

Analyte	<u>Result</u>	<u>Units</u>		Qualifier	Date Analy	yzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			4/3/2015	13:41
1,3,5-Trimethylbenzene	< 2.00	ug/L			4/3/2015	13:41
Benzene	< 0.700	ug/L			4/3/2015	13:41
Ethylbenzene	< 2.00	ug/L			4/3/2015	13:41
Isopropylbenzene	< 2.00	ug/L			4/3/2015	13:41
m,p-Xylene	< 2.00	ug/L			4/3/2015	13:41
Methyl tert-butyl Ether	< 2.00	ug/L			4/3/2015	13:41
Naphthalene	< 5.00	ug/L			4/3/2015	13:41
n-Butylbenzene	< 2.00	ug/L			4/3/2015	13:41
n-Propylbenzene	< 2.00	ug/L			4/3/2015	13:41
o-Xylene	< 2.00	ug/L			4/3/2015	13:41
p-Isopropyltoluene	< 2.00	ug/L			4/3/2015	13:41
sec-Butylbenzene	< 2.00	ug/L			4/3/2015	13:41
tert-Butylbenzene	< 2.00	ug/L			4/3/2015	13:41
Toluene	< 2.00	ug/L			4/3/2015	13:41
Surrogate	<u>Percen</u>	t Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4	-	105	82.3 - 115		4/3/2015	13:41
4-Bromofluorobenzene	ä	92.9	85.5 - 111		4/3/2015	13:41
Pentafluorobenzene	à	95.4	91.2 - 107		4/3/2015	13:41
Toluene-D8	ä	98.7	90.9 - 108		4/3/2015	13:41

Method Reference(s): EPA 8260C

EPA 5030

Data File: x21680.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

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Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
"(1)" = Indicates data from primary column used for QC calculation.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

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GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written. between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies

from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

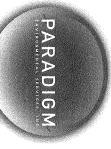
This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision. Law.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

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Report Prepared Monday, April 06, 2015

Sample Handling.



CHAIN OF CUSTODY

		13:53	31 // S Date/Time	D (3)) D By	Received @ Lab By	Other EDD		Other please indicate:	P O	Rush 1 day Other please indicate:	Rush Other
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Chain of Custody Supplement

Client:		Lu Engineers	Completed by:	Glem Pezzulo
Lab Project ID:		15/053	Date:	3/31/15
		Sample Condition R Per NELAC/ELAP 210/24	equirements 1/242/243/244	
Condition	NE	ELAC compliance with the sample cond Yes	ition requirements upo No	on receipt N/A
Container Type				
Со	omments			
Transferred to method	d-			
Headspace (<1 mL)	omments			
Preservation Co	omments			
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Holding Time	omments			
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Analytical Report For

Lu Engineers, Inc.

For Lab Project ID

152451

Referencing

City of Rochester 4226 Scio St.

Prepared

Monday, June 22, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: MW6-061615

Lab Sample ID:152451-01Date Sampled:6/12/2015Matrix:GroundwaterDate Received:6/16/2015

Volatile Organics (Petroleum)

Analyte	Result	<u>Units</u>		Qualifier	Date Anal	yzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			6/18/2015	19:28
1,3,5-Trimethylbenzene	< 2.00	ug/L			6/18/2015	19:28
Benzene	< 0.700	ug/L			6/18/2015	19:28
Ethylbenzene	< 2.00	ug/L			6/18/2015	19:28
Isopropylbenzene	< 2.00	ug/L			6/18/2015	19:28
m,p-Xylene	< 2.00	ug/L			6/18/2015	19:28
Methyl tert-butyl Ether	< 2.00	ug/L			6/18/2015	19:28
Naphthalene	< 5.00	ug/L			6/18/2015	19:28
n-Butylbenzene	< 2.00	ug/L			6/18/2015	19:28
n-Propylbenzene	< 2.00	ug/L			6/18/2015	19:28
o-Xylene	< 2.00	ug/L			6/18/2015	19:28
p-Isopropyltoluene	< 2.00	ug/L			6/18/2015	19:28
sec-Butylbenzene	< 2.00	ug/L			6/18/2015	19:28
tert-Butylbenzene	< 2.00	ug/L			6/18/2015	19:28
Toluene	< 2.00	ug/L			6/18/2015	19:28
<u>Surrogate</u>	Percent 1	Recovery	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4	10)2	82.3 - 115		6/18/2015	19:28
4-Bromofluorobenzene	87	'.4	85.5 - 111		6/18/2015	19:28
Pentafluorobenzene	96	8.8	91.2 - 107		6/18/2015	19:28
Toluene-D8	95	5.4	90.9 - 108		6/18/2015	19:28

Method Reference(s): EPA 8260C

EPA 5030

Data File: x23842.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: MW5-061615

Lab Sample ID:152451-02Date Sampled:6/12/2015Matrix:GroundwaterDate Received:6/16/2015

Volatile Organics (Petroleum)

<u>Analyte</u>	Result	<u>Units</u>		Qualifier	Date Anal	yzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			6/18/2015	19:51
1,3,5-Trimethylbenzene	< 2.00	ug/L			6/18/2015	19:51
Benzene	< 0.700	ug/L			6/18/2015	19:51
Ethylbenzene	< 2.00	ug/L			6/18/2015	19:51
Isopropylbenzene	< 2.00	ug/L			6/18/2015	19:51
m,p-Xylene	< 2.00	ug/L			6/18/2015	19:51
Methyl tert-butyl Ether	< 2.00	ug/L			6/18/2015	19:51
Naphthalene	< 5.00	ug/L			6/18/2015	19:51
n-Butylbenzene	< 2.00	ug/L			6/18/2015	19:51
n-Propylbenzene	< 2.00	ug/L			6/18/2015	19:51
o-Xylene	< 2.00	ug/L			6/18/2015	19:51
p-Isopropyltoluene	< 2.00	ug/L			6/18/2015	19:51
sec-Butylbenzene	< 2.00	ug/L			6/18/2015	19:51
tert-Butylbenzene	< 2.00	ug/L			6/18/2015	19:51
Toluene	< 2.00	ug/L			6/18/2015	19:51
Surrogate	Percent	Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4	1	04	82.3 - 115		6/18/2015	19:51
4-Bromofluorobenzene	8	6.9	85.5 - 111		6/18/2015	19:51
Pentafluorobenzene	9	8.3	91.2 - 107		6/18/2015	19:51
Toluene-D8	9	5.4	90.9 - 108		6/18/2015	19:51

Method Reference(s): EPA 8260C

EPA 5030

Data File: x23843.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: MW7-061615

Lab Sample ID:152451-03Date Sampled:6/12/2015Matrix:GroundwaterDate Received:6/16/2015

Volatile Organics (Petroleum)

Analyte	Result	<u>Units</u>		Qualifier	Date Anal	yzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			6/18/2015	20:15
1,3,5-Trimethylbenzene	< 2.00	ug/L			6/18/2015	20:15
Benzene	< 0.700	ug/L			6/18/2015	20:15
Ethylbenzene	< 2.00	ug/L			6/18/2015	20:15
Isopropylbenzene	< 2.00	ug/L			6/18/2015	20:15
m,p-Xylene	5.36	ug/L			6/18/2015	20:15
Methyl tert-butyl Ether	< 2.00	ug/L			6/18/2015	20:15
Naphthalene	< 5.00	ug/L			6/18/2015	20:15
n-Butylbenzene	< 2.00	ug/L			6/18/2015	20:15
n-Propylbenzene	< 2.00	ug/L			6/18/2015	20:15
o-Xylene	< 2.00	ug/L			6/18/2015	20:15
p-Isopropyltoluene	< 2.00	ug/L			6/18/2015	20:15
sec-Butylbenzene	< 2.00	ug/L			6/18/2015	20:15
tert-Butylbenzene	< 2.00	ug/L			6/18/2015	20:15
Toluene	< 2.00	ug/L			6/18/2015	20:15
Surrogate	Percent Recovery		<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4	:	103	82.3 - 115		6/18/2015	20:15
4-Bromofluorobenzene	Ģ	93.7	85.5 - 111		6/18/2015	20:15
Pentafluorobenzene	Ć	96.7	91.2 - 107		6/18/2015	20:15
Toluene-D8	Ġ	98.3	90.9 - 108		6/18/2015	20:15

Method Reference(s): EPA 8260C

EPA 5030

Data File: x23844.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: MW4-061615

Lab Sample ID:152451-04Date Sampled:6/12/2015Matrix:GroundwaterDate Received:6/16/2015

Volatile Organics (Petroleum)

<u>Analyte</u>	Result	<u>Units</u>		Qualifier	Date Anal	yzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			6/18/2015	20:38
1,3,5-Trimethylbenzene	< 2.00	ug/L			6/18/2015	20:38
Benzene	< 0.700	ug/L			6/18/2015	20:38
Ethylbenzene	< 2.00	ug/L			6/18/2015	20:38
Isopropylbenzene	< 2.00	ug/L			6/18/2015	20:38
m,p-Xylene	< 2.00	ug/L			6/18/2015	20:38
Methyl tert-butyl Ether	< 2.00	ug/L			6/18/2015	20:38
Naphthalene	< 5.00	ug/L			6/18/2015	20:38
n-Butylbenzene	< 2.00	ug/L			6/18/2015	20:38
n-Propylbenzene	< 2.00	ug/L			6/18/2015	20:38
o-Xylene	< 2.00	ug/L			6/18/2015	20:38
p-Isopropyltoluene	< 2.00	ug/L			6/18/2015	20:38
sec-Butylbenzene	< 2.00	ug/L			6/18/2015	20:38
tert-Butylbenzene	< 2.00	ug/L			6/18/2015	20:38
Toluene	< 2.00	ug/L			6/18/2015	20:38
<u>Surrogate</u>	Perce	nt Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analyzed	
1,2-Dichloroethane-d4		106	82.3 - 115		6/18/2015	20:38
4-Bromofluorobenzene		87.6	85.5 - 111		6/18/2015	20:38
Pentafluorobenzene		98.3	91.2 - 107		6/18/2015	20:38
Toluene-D8		94.5	90.9 - 108		6/18/2015	20:38

Method Reference(s): EPA 8260C

EPA 5030

Data File: x23845.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: MW2-061615

Lab Sample ID:152451-05Date Sampled:6/12/2015Matrix:GroundwaterDate Received:6/16/2015

Volatile Organics (Petroleum)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		Qualifier	Date Anal	yzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			6/18/2015	21:02
1,3,5-Trimethylbenzene	< 2.00	ug/L			6/18/2015	21:02
Benzene	< 0.700	ug/L			6/18/2015	21:02
Ethylbenzene	< 2.00	ug/L			6/18/2015	21:02
Isopropylbenzene	< 2.00	ug/L			6/18/2015	21:02
m,p-Xylene	< 2.00	ug/L			6/18/2015	21:02
Methyl tert-butyl Ether	< 2.00	ug/L			6/18/2015	21:02
Naphthalene	< 5.00	ug/L			6/18/2015	21:02
n-Butylbenzene	< 2.00	ug/L			6/18/2015	21:02
n-Propylbenzene	< 2.00	ug/L			6/18/2015	21:02
o-Xylene	< 2.00	ug/L			6/18/2015	21:02
p-Isopropyltoluene	< 2.00	ug/L			6/18/2015	21:02
sec-Butylbenzene	< 2.00	ug/L			6/18/2015	21:02
tert-Butylbenzene	< 2.00	ug/L			6/18/2015	21:02
Toluene	< 2.00	ug/L			6/18/2015	21:02
Surrogate	Percent Recovery		<u>Limits</u>	<u>Outliers</u>	Date Analyzed	
1,2-Dichloroethane-d4	1	06	82.3 - 115		6/18/2015	21:02
4-Bromofluorobenzene	8	6.4	85.5 - 111		6/18/2015	21:02
Pentafluorobenzene	9	6.2	91.2 - 107		6/18/2015	21:02
Toluene-D8	9	5.2	90.9 - 108		6/18/2015	21:02

Method Reference(s): EPA 8260C

EPA 5030

Data File: x23846.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: MW8-061615

Lab Sample ID:152451-06Date Sampled:6/12/2015Matrix:GroundwaterDate Received:6/16/2015

Volatile Organics (Petroleum)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		Qualifier	Date Anal	yzed
1,2,4-Trimethylbenzene	400	ug/L			6/18/2015	22:12
1,3,5-Trimethylbenzene	64.4	ug/L			6/18/2015	22:12
Benzene	35.7	ug/L			6/18/2015	22:12
Ethylbenzene	568	ug/L			6/18/2015	22:12
Isopropylbenzene	29.9	ug/L			6/18/2015	22:12
m,p-Xylene	952	ug/L			6/18/2015	22:12
Methyl tert-butyl Ether	< 20.0	ug/L			6/18/2015	22:12
Naphthalene	139	ug/L			6/18/2015	22:12
n-Butylbenzene	< 20.0	ug/L			6/18/2015	22:12
n-Propylbenzene	75.3	ug/L			6/18/2015	22:12
o-Xylene	46.2	ug/L			6/18/2015	22:12
p-Isopropyltoluene	< 20.0	ug/L			6/18/2015	22:12
sec-Butylbenzene	< 20.0	ug/L			6/18/2015	22:12
tert-Butylbenzene	< 20.0	ug/L			6/18/2015	22:12
Toluene	70.1	ug/L			6/18/2015	22:12
Surrogate	Perce	Percent Recovery		Outliers	Date Analyzed	
1,2-Dichloroethane-d4		101	82.3 - 115		6/18/2015	22:12
4-Bromofluorobenzene		96.4	85.5 - 111		6/18/2015	22:12
Pentafluorobenzene		102	91.2 - 107		6/18/2015	22:12
Toluene-D8		99.6	90.9 - 108		6/18/2015	22:12

Method Reference(s): EPA 8260C

EPA 5030

Data File: x23849.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: MW9-061615

Lab Sample ID:152451-07Date Sampled:6/12/2015Matrix:GroundwaterDate Received:6/16/2015

Volatile Organics (Petroleum)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		Qualifier	Date Anal	yzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			6/18/2015	21:25
1,3,5-Trimethylbenzene	< 2.00	ug/L			6/18/2015	21:25
Benzene	1.68	ug/L			6/18/2015	21:25
Ethylbenzene	< 2.00	ug/L			6/18/2015	21:25
Isopropylbenzene	< 2.00	ug/L			6/18/2015	21:25
m,p-Xylene	< 2.00	ug/L			6/18/2015	21:25
Methyl tert-butyl Ether	< 2.00	ug/L			6/18/2015	21:25
Naphthalene	< 5.00	ug/L			6/18/2015	21:25
n-Butylbenzene	< 2.00	ug/L			6/18/2015	21:25
n-Propylbenzene	2.04	ug/L			6/18/2015	21:25
o-Xylene	< 2.00	ug/L			6/18/2015	21:25
p-Isopropyltoluene	< 2.00	ug/L			6/18/2015	21:25
sec-Butylbenzene	< 2.00	ug/L			6/18/2015	21:25
tert-Butylbenzene	< 2.00	ug/L			6/18/2015	21:25
Toluene	< 2.00	ug/L			6/18/2015	21:25
Surrogate	Percent Recovery		Limits	<u>Outliers</u>	Date Analyzed	
1,2-Dichloroethane-d4	10	04	82.3 - 115		6/18/2015	21:25
4-Bromofluorobenzene	91	l.1	85.5 - 111		6/18/2015	21:25
Pentafluorobenzene	97	7.4	91.2 - 107		6/18/2015	21:25
Toluene-D8	96	5.7	90.9 - 108		6/18/2015	21:25

Method Reference(s): EPA 8260C

EPA 5030

Data File: x23847.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: Trip Blank T-630

Lab Sample ID:152451-08Date Sampled:6/12/2015Matrix:GroundwaterDate Received:6/16/2015

Volatile Organics (Petroleum)

Analyte	<u>Result</u>	<u>Units</u>		Qualifier	Date Anal	yzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			6/18/2015	19:04
1,3,5-Trimethylbenzene	< 2.00	ug/L			6/18/2015	19:04
Benzene	< 0.700	ug/L			6/18/2015	19:04
Ethylbenzene	< 2.00	ug/L			6/18/2015	19:04
Isopropylbenzene	< 2.00	ug/L			6/18/2015	19:04
m,p-Xylene	< 2.00	ug/L			6/18/2015	19:04
Methyl tert-butyl Ether	< 2.00	ug/L			6/18/2015	19:04
Naphthalene	< 5.00	ug/L			6/18/2015	19:04
n-Butylbenzene	< 2.00	ug/L			6/18/2015	19:04
n-Propylbenzene	< 2.00	ug/L			6/18/2015	19:04
o-Xylene	< 2.00	ug/L			6/18/2015	19:04
p-Isopropyltoluene	< 2.00	ug/L			6/18/2015	19:04
sec-Butylbenzene	< 2.00	ug/L			6/18/2015	19:04
tert-Butylbenzene	< 2.00	ug/L			6/18/2015	19:04
Toluene	< 2.00	ug/L			6/18/2015	19:04
<u>Surrogate</u>	Percent F	Recovery	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4	10	5	82.3 - 115		6/18/2015	19:04
4-Bromofluorobenzene	87	.3	85.5 - 111		6/18/2015	19:04
Pentafluorobenzene	97	.4	91.2 - 107		6/18/2015	19:04
Toluene-D8	95	.1	90.9 - 108		6/18/2015	19:04

Method Reference(s): EPA 8260C

EPA 5030

Data File: x23841.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: Blind-DUP-061615

Lab Sample ID:152451-09Date Sampled:6/12/2015Matrix:GroundwaterDate Received:6/16/2015

Volatile Organics (Petroleum)

Analyte	Result	<u>Units</u>		Qualifier	Date Anal	vzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			6/18/2015	21:49
1,3,5-Trimethylbenzene	< 2.00	ug/L			6/18/2015	21:49
Benzene	< 0.700	ug/L			6/18/2015	21:49
Ethylbenzene	< 2.00	ug/L			6/18/2015	21:49
Isopropylbenzene	< 2.00	ug/L			6/18/2015	21:49
m,p-Xylene	< 2.00	ug/L			6/18/2015	21:49
Methyl tert-butyl Ether	< 2.00	ug/L			6/18/2015	21:49
Naphthalene	< 5.00	ug/L			6/18/2015	21:49
n-Butylbenzene	< 2.00	ug/L			6/18/2015	21:49
n-Propylbenzene	< 2.00	ug/L			6/18/2015	21:49
o-Xylene	< 2.00	ug/L			6/18/2015	21:49
p-Isopropyltoluene	< 2.00	ug/L			6/18/2015	21:49
sec-Butylbenzene	< 2.00	ug/L			6/18/2015	21:49
tert-Butylbenzene	< 2.00	ug/L			6/18/2015	21:49
Toluene	< 2.00	ug/L			6/18/2015	21:49
<u>Surrogate</u>	Percent	<u>Recovery</u>	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4	10	03	82.3 - 115		6/18/2015	21:49
4-Bromofluorobenzene	88	3.0	85.5 - 111		6/18/2015	21:49
Pentafluorobenzene	99	0.2	91.2 - 107		6/18/2015	21:49
Toluene-D8	96	5.8	90.9 - 108		6/18/2015	21:49

Method Reference(s): EPA 8260C

EPA 5030

Data File: x23848.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

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Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
"(1)" = Indicates data from primary column used for QC calculation.

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GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written. between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies

from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision. Law.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

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CHAIN OF CUSTODY

PARADIGM PROJECT REFERENCE	REPORT T	ADDRESS CITY: PHONE: PHONE:	LAB PROJECT ID 152 45 Quotation #: Email: Oregandrus & Lucy Fishes 16 city of reches	Page 13 of 14
PROJECT REFERENCE City of Rochester 4226 Scio St.	9. Andrus Take Forbes prix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	her	SD-Solid WP-Wipe OL-Oil PT-Paint CK-Caulk AR-Air	2
THE RESERVE THE PERSON NAMED IN		REQUESTED ANALYSIS		
DATE COLLECTED TIME COLLECTED O A A B B	SAMPLE IDENTIFIER	X-X-X-X WMOOO TO WMWECZ WWWZ->-ZOO	REMARKS	PARADIGM LAB SAMPLE NUMBER
16/12/15 0905 ×	719110-0MM	NG 2 ×		0
2 1 0855 X	MWS-OPILIT	2 ×		0
3 978 X	712190 - EWA	× ×		O
4 Days X	MWY-DLIGHT	× ×		4
5 0915 ×	WAYSH SIGHT FUM	1 × 4		0
X 45 60 9	Mw 2-06/6/5	1 2 x		0 8
7 1006 1	mw 8-06/6/1	7 ×		0
8	Nw 9-061615	2 ×		0 7
9	TER BURNICTESOUS	2 14 70		0
10 L X	11919-010-010-01011	WG 2 X		ه 9

16°Ciced 6/16/15 13:04

Rush 1 day Rush 2 day Rush 3 day Standard 5 day

Turnaround Time

Availability contingent upon lab approval; additional fees may apply.

Report Supplements

Batch QC

NYSDEC EDD Basic EDD

Category B Category A

Other EDD please indicate:

Received @ Lab By

Date/Time

Date/Time

OSKI

PIF

12:50

Total Cost:

Received By

2062



Chain of Custody Supplement

Client:		LyEng	Completed by:	molgrail
Lab Project ID:		152451	Date:	6/16/15
		Sample Condition I Per NELAC/ELAP 210/24	Requirements 41/242/243/244	
Condition	N	ELAC compliance with the sample cond Yes	dition requirements upo No	on receipt N/A
Container Type	mments			
Transferred to method compliant container	d-			
Headspace (<1 mL)	mments			
Preservation Co	omments			
Chlorine Absent (<0.10 ppm per test	strip) omments			
Holding Time	omments			
Temperature Co	omments	16°Cic	Q 6/16/15 1	304
Sufficient Sample Qu	uantity omments			



Analytical Report For

Lu Engineers, Inc.

For Lab Project ID

153995

Referencing

Scio St 4226

Prepared

Monday, September 28, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Scio St 4226

Sample Identifier: MW5-092315

Lab Sample ID:153995-01Date Sampled:9/23/2015Matrix:GroundwaterDate Received:9/23/2015

Volatile Organics (Petroleum)

Analyte	<u>Result</u>	<u>Units</u>		Qualifier	Date Anal	vzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			9/25/2015	04:59
1,3,5-Trimethylbenzene	< 2.00	ug/L			9/25/2015	04:59
Benzene	< 1.00	ug/L			9/25/2015	04:59
Ethylbenzene	< 2.00	ug/L			9/25/2015	04:59
Isopropylbenzene	< 2.00	ug/L			9/25/2015	04:59
m,p-Xylene	< 2.00	ug/L			9/25/2015	04:59
Methyl tert-butyl Ether	< 2.00	ug/L			9/25/2015	04:59
Naphthalene	< 5.00	ug/L			9/25/2015	04:59
n-Butylbenzene	< 2.00	ug/L			9/25/2015	04:59
n-Propylbenzene	< 2.00	ug/L			9/25/2015	04:59
o-Xylene	< 2.00	ug/L			9/25/2015	04:59
p-Isopropyltoluene	< 2.00	ug/L			9/25/2015	04:59
sec-Butylbenzene	< 2.00	ug/L			9/25/2015	04:59
tert-Butylbenzene	< 2.00	ug/L			9/25/2015	04:59
Toluene	< 2.00	ug/L			9/25/2015	04:59
Surrogate	Percent	Recovery	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4	1	09	81.1 - 116		9/25/2015	04:59
4-Bromofluorobenzene	9	1.6	82.3 - 113		9/25/2015	04:59
Pentafluorobenzene	9	2.8	91.1 - 110		9/25/2015	04:59
Toluene-D8	9	8.9	91.4 - 106		9/25/2015	04:59

Method Reference(s): EPA 8260C

EPA 5030

Data File: x26402.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Scio St 4226

Sample Identifier: MW6-092315

Lab Sample ID:153995-02Date Sampled:9/23/2015Matrix:GroundwaterDate Received:9/23/2015

Volatile Organics (Petroleum)

Analyte	<u>Result</u>	<u>Units</u>		Qualifier	Date Anal	vzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			9/25/2015	05:22
1,3,5-Trimethylbenzene	< 2.00	ug/L			9/25/2015	05:22
Benzene	< 1.00	ug/L			9/25/2015	05:22
Ethylbenzene	< 2.00	ug/L			9/25/2015	05:22
Isopropylbenzene	< 2.00	ug/L			9/25/2015	05:22
m,p-Xylene	< 2.00	ug/L			9/25/2015	05:22
Methyl tert-butyl Ether	< 2.00	ug/L			9/25/2015	05:22
Naphthalene	< 5.00	ug/L			9/25/2015	05:22
n-Butylbenzene	< 2.00	ug/L			9/25/2015	05:22
n-Propylbenzene	< 2.00	ug/L			9/25/2015	05:22
o-Xylene	< 2.00	ug/L			9/25/2015	05:22
p-Isopropyltoluene	< 2.00	ug/L			9/25/2015	05:22
sec-Butylbenzene	< 2.00	ug/L			9/25/2015	05:22
tert-Butylbenzene	< 2.00	ug/L			9/25/2015	05:22
Toluene	< 2.00	ug/L			9/25/2015	05:22
<u>Surrogate</u>	Percent	Recovery	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4	1:	10	81.1 - 116		9/25/2015	05:22
4-Bromofluorobenzene	90).9	82.3 - 113		9/25/2015	05:22
Pentafluorobenzene	92	2.5	91.1 - 110		9/25/2015	05:22
Toluene-D8	98	3.2	91.4 - 106		9/25/2015	05:22

Method Reference(s): EPA 8260C

EPA 5030

Data File: x26403.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Scio St 4226

Sample Identifier: MW2-092315

Lab Sample ID:153995-03Date Sampled:9/23/2015Matrix:GroundwaterDate Received:9/23/2015

Volatile Organics (Petroleum)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		Qualifier	Date Anal	yzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			9/25/2015	05:45
1,3,5-Trimethylbenzene	< 2.00	ug/L			9/25/2015	05:45
Benzene	< 1.00	ug/L			9/25/2015	05:45
Ethylbenzene	< 2.00	ug/L			9/25/2015	05:45
Isopropylbenzene	< 2.00	ug/L			9/25/2015	05:45
m,p-Xylene	< 2.00	ug/L			9/25/2015	05:45
Methyl tert-butyl Ether	< 2.00	ug/L			9/25/2015	05:45
Naphthalene	< 5.00	ug/L			9/25/2015	05:45
n-Butylbenzene	< 2.00	ug/L			9/25/2015	05:45
n-Propylbenzene	< 2.00	ug/L			9/25/2015	05:45
o-Xylene	< 2.00	ug/L			9/25/2015	05:45
p-Isopropyltoluene	< 2.00	ug/L			9/25/2015	05:45
sec-Butylbenzene	< 2.00	ug/L			9/25/2015	05:45
tert-Butylbenzene	< 2.00	ug/L			9/25/2015	05:45
Toluene	< 2.00	ug/L			9/25/2015	05:45
Surrogate	Perc	cent Recovery	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4		109	81.1 - 116		9/25/2015	05:45
4-Bromofluorobenzene		90.2	82.3 - 113		9/25/2015	05:45
Pentafluorobenzene		92.4	91.1 - 110		9/25/2015	05:45
Toluene-D8		97.5	91.4 - 106		9/25/2015	05:45

Method Reference(s): EPA 8260C

EPA 5030

Data File: x26404.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Scio St 4226

Sample Identifier: MW7-092315

Lab Sample ID:153995-04Date Sampled:9/23/2015Matrix:GroundwaterDate Received:9/23/2015

Volatile Organics (Petroleum)

Analyte	Result	<u>Units</u>		Qualifier	Date Anal	yzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			9/25/2015	06:09
1,3,5-Trimethylbenzene	< 2.00	ug/L			9/25/2015	06:09
Benzene	< 1.00	ug/L			9/25/2015	06:09
Ethylbenzene	< 2.00	ug/L			9/25/2015	06:09
Isopropylbenzene	< 2.00	ug/L			9/25/2015	06:09
m,p-Xylene	< 2.00	ug/L			9/25/2015	06:09
Methyl tert-butyl Ether	< 2.00	ug/L			9/25/2015	06:09
Naphthalene	< 5.00	ug/L			9/25/2015	06:09
n-Butylbenzene	< 2.00	ug/L			9/25/2015	06:09
n-Propylbenzene	< 2.00	ug/L			9/25/2015	06:09
o-Xylene	< 2.00	ug/L			9/25/2015	06:09
p-Isopropyltoluene	< 2.00	ug/L			9/25/2015	06:09
sec-Butylbenzene	< 2.00	ug/L			9/25/2015	06:09
tert-Butylbenzene	< 2.00	ug/L			9/25/2015	06:09
Toluene	< 2.00	ug/L			9/25/2015	06:09
Surrogate	Percent	Recovery	Limits	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4	1	10	81.1 - 116		9/25/2015	06:09
4-Bromofluorobenzene	9	0.5	82.3 - 113		9/25/2015	06:09
Pentafluorobenzene	9	2.7	91.1 - 110		9/25/2015	06:09
Toluene-D8	9	7.1	91.4 - 106		9/25/2015	06:09

Method Reference(s): EPA 8260C

EPA 5030

Data File: x26405.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Scio St 4226

Sample Identifier: MW4-092315

Lab Sample ID:153995-05Date Sampled:9/23/2015Matrix:GroundwaterDate Received:9/23/2015

Volatile Organics (Petroleum)

Analyte	<u>Result</u>	<u>Units</u>		Qualifier	Date Anal	yzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			9/25/2015	06:32
1,3,5-Trimethylbenzene	< 2.00	ug/L			9/25/2015	06:32
Benzene	< 1.00	ug/L			9/25/2015	06:32
Ethylbenzene	< 2.00	ug/L			9/25/2015	06:32
Isopropylbenzene	< 2.00	ug/L			9/25/2015	06:32
m,p-Xylene	< 2.00	ug/L			9/25/2015	06:32
Methyl tert-butyl Ether	< 2.00	ug/L			9/25/2015	06:32
Naphthalene	< 5.00	ug/L			9/25/2015	06:32
n-Butylbenzene	< 2.00	ug/L			9/25/2015	06:32
n-Propylbenzene	< 2.00	ug/L			9/25/2015	06:32
o-Xylene	< 2.00	ug/L			9/25/2015	06:32
p-Isopropyltoluene	< 2.00	ug/L			9/25/2015	06:32
sec-Butylbenzene	< 2.00	ug/L			9/25/2015	06:32
tert-Butylbenzene	< 2.00	ug/L			9/25/2015	06:32
Toluene	< 2.00	ug/L			9/25/2015	06:32
<u>Surrogate</u>	Percent	Recovery	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4	1	08	81.1 - 116		9/25/2015	06:32
4-Bromofluorobenzene	9	0.1	82.3 - 113		9/25/2015	06:32
Pentafluorobenzene	9	1.7	91.1 - 110		9/25/2015	06:32
Toluene-D8	9	6.9	91.4 - 106		9/25/2015	06:32

Method Reference(s): EPA 8260C

EPA 5030

Data File: x26406.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Scio St 4226

Sample Identifier: MW9-092315

Lab Sample ID:153995-06Date Sampled:9/23/2015Matrix:GroundwaterDate Received:9/23/2015

Volatile Organics (Petroleum)

Analyte	<u>Result</u>	<u>Units</u>		Qualifier	Date Anal	yzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			9/25/2015	06:55
1,3,5-Trimethylbenzene	< 2.00	ug/L			9/25/2015	06:55
Benzene	1.20	ug/L			9/25/2015	06:55
Ethylbenzene	< 2.00	ug/L			9/25/2015	06:55
Isopropylbenzene	< 2.00	ug/L			9/25/2015	06:55
m,p-Xylene	< 2.00	ug/L			9/25/2015	06:55
Methyl tert-butyl Ether	< 2.00	ug/L			9/25/2015	06:55
Naphthalene	< 5.00	ug/L			9/25/2015	06:55
n-Butylbenzene	< 2.00	ug/L			9/25/2015	06:55
n-Propylbenzene	< 2.00	ug/L			9/25/2015	06:55
o-Xylene	< 2.00	ug/L			9/25/2015	06:55
p-Isopropyltoluene	< 2.00	ug/L			9/25/2015	06:55
sec-Butylbenzene	< 2.00	ug/L			9/25/2015	06:55
tert-Butylbenzene	< 2.00	ug/L			9/25/2015	06:55
Toluene	< 2.00	ug/L			9/25/2015	06:55
Surrogate	<u>Perc</u>	ent Recovery	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4		109	81.1 - 116		9/25/2015	06:55
4-Bromofluorobenzene		93.3	82.3 - 113		9/25/2015	06:55
Pentafluorobenzene		92.8	91.1 - 110		9/25/2015	06:55
Toluene-D8		98.5	91.4 - 106		9/25/2015	06:55

Method Reference(s): EPA 8260C

EPA 5030

Data File: x26407.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Scio St 4226

Sample Identifier: MW8-092315

Lab Sample ID:153995-07Date Sampled:9/23/2015Matrix:GroundwaterDate Received:9/23/2015

Volatile Organics (Petroleum)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		Qualifier	Date Analy	yzed
1,2,4-Trimethylbenzene	848	ug/L			9/25/2015	10:15
1,3,5-Trimethylbenzene	115	ug/L			9/25/2015	10:15
Benzene	39.1	ug/L			9/25/2015	10:15
Ethylbenzene	1060	ug/L			9/25/2015	10:15
Isopropylbenzene	62.4	ug/L			9/25/2015	10:15
m,p-Xylene	1400	ug/L			9/25/2015	10:15
Methyl tert-butyl Ether	< 20.0	ug/L			9/25/2015	10:15
Naphthalene	266	ug/L			9/25/2015	10:15
n-Butylbenzene	< 20.0	ug/L			9/25/2015	10:15
n-Propylbenzene	155	ug/L			9/25/2015	10:15
o-Xylene	52.2	ug/L			9/25/2015	10:15
p-Isopropyltoluene	< 20.0	ug/L			9/25/2015	10:15
sec-Butylbenzene	< 20.0	ug/L			9/25/2015	10:15
tert-Butylbenzene	< 20.0	ug/L			9/25/2015	10:15
Toluene	95.6	ug/L			9/25/2015	10:15
Surrogate	Perce	ent Recovery	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4		107	81.1 - 116		9/25/2015	10:15
4-Bromofluorobenzene		97.0	82.3 - 113		9/25/2015	10:15
Pentafluorobenzene		99.5	91.1 - 110		9/25/2015	10:15
Toluene-D8		102	91.4 - 106		9/25/2015	10:15

Method Reference(s): EPA 8260C

EPA 5030

Data File: x26415.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Scio St 4226

Sample Identifier: Trip Blank T-658

Lab Sample ID:153995-08Date Sampled:9/23/2015Matrix:WaterDate Received:9/23/2015

Volatile Organics (Petroleum)

Analyte	<u>Result</u>	<u>Units</u>		Qualifier	Date Anal	yzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			9/25/2015	07:18
1,3,5-Trimethylbenzene	< 2.00	ug/L			9/25/2015	07:18
Benzene	< 1.00	ug/L			9/25/2015	07:18
Ethylbenzene	< 2.00	ug/L			9/25/2015	07:18
Isopropylbenzene	< 2.00	ug/L			9/25/2015	07:18
m,p-Xylene	< 2.00	ug/L			9/25/2015	07:18
Methyl tert-butyl Ether	< 2.00	ug/L			9/25/2015	07:18
Naphthalene	< 5.00	ug/L			9/25/2015	07:18
n-Butylbenzene	< 2.00	ug/L			9/25/2015	07:18
n-Propylbenzene	< 2.00	ug/L			9/25/2015	07:18
o-Xylene	< 2.00	ug/L			9/25/2015	07:18
p-Isopropyltoluene	< 2.00	ug/L			9/25/2015	07:18
sec-Butylbenzene	< 2.00	ug/L			9/25/2015	07:18
tert-Butylbenzene	< 2.00	ug/L			9/25/2015	07:18
Toluene	< 2.00	ug/L			9/25/2015	07:18
Surrogate	Perc	ent Recovery	<u>Limits</u>	Outliers	Date Analy	zed
1,2-Dichloroethane-d4		113	81.1 - 116		9/25/2015	07:18
4-Bromofluorobenzene		92.0	82.3 - 113		9/25/2015	07:18
Pentafluorobenzene		91.1	91.1 - 110		9/25/2015	07:18
Toluene-D8		97.9	91.4 - 106		9/25/2015	07:18

Method Reference(s): EPA 8260C

EPA 5030

Data File: x26408.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Scio St 4226

Sample Identifier: Blind Dup

Lab Sample ID: 153995-09 **Date Sampled:** 9/23/2015

Matrix: Groundwater Date Received: 9/23/2015

Volatile Organics (Petroleum)

Analyte	Result	<u>Units</u>		Qualifier	Date Anal	yzed
1,2,4-Trimethylbenzene	< 2.00	ug/L			9/25/2015	07:41
1,3,5-Trimethylbenzene	< 2.00	ug/L			9/25/2015	07:41
Benzene	< 1.00	ug/L			9/25/2015	07:41
Ethylbenzene	< 2.00	ug/L			9/25/2015	07:41
Isopropylbenzene	< 2.00	ug/L			9/25/2015	07:41
m,p-Xylene	< 2.00	ug/L			9/25/2015	07:41
Methyl tert-butyl Ether	< 2.00	ug/L			9/25/2015	07:41
Naphthalene	< 5.00	ug/L			9/25/2015	07:41
n-Butylbenzene	< 2.00	ug/L			9/25/2015	07:41
n-Propylbenzene	< 2.00	ug/L			9/25/2015	07:41
o-Xylene	< 2.00	ug/L			9/25/2015	07:41
p-Isopropyltoluene	< 2.00	ug/L			9/25/2015	07:41
sec-Butylbenzene	< 2.00	ug/L			9/25/2015	07:41
tert-Butylbenzene	< 2.00	ug/L			9/25/2015	07:41
Toluene	< 2.00	ug/L			9/25/2015	07:41
Surrogate	<u>Percent</u>	Recovery	Limits	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4	1	10	81.1 - 116		9/25/2015	07:41
4-Bromofluorobenzene	89	9.5	82.3 - 113		9/25/2015	07:41
Pentafluorobenzene	93	3.1	91.1 - 110		9/25/2015	07:41
Toluene-D8	98	8.1	91.4 - 106		9/25/2015	07:41

Method Reference(s): EPA 8260C

EPA 5030

Data File: x26409.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

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Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "I" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

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GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on guotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB. Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against

any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

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Report Prepared Monday, September 28, 2015



CHAIN OF CUSTODY

10 9 8 7 6 5 4 3 2 1

Rush 1 day

please indicate:

Other please indicate:

Other EDD please indicate:

Received @ Lab By

Received By

9/23/15 Date/Time

1153

P.I.F.

Date/Time

Date/Time

9/12/15 1/50

Total Cost:

9°Cicel started in field 9/23/15 12:00

Rush 2 day

Category B Category A

Rush 3 day Standard 5 day

Turnaround Time

Availability contingent upon lab approval; additional fees may apply.

Report Supplements

Batch QC

NYSDEC EDD Basic EDD

Relinguished By

Sampled By

ACT CHORETTORAL I WORKERS

2012



Chain of Custody Supplement

Client:	LyEng	Completed by:	Molylail						
Lab Project ID:	153995	Date:	9/23/15						
Sample Condition Requirements Per NELAC/ELAP 210/241/242/243/244									
NELAC compliance with the sample condition requirements upon receipt Condition Yes No N/A									
Container Type Comments									
Transferred to method- compliant container	;								
Headspace (<1 mL) Comments									
Preservation Comments									
Chlorine Absent (<0.10 ppm per test strip) Comments									
Holding Time Comments									
Temperature Comments	g°Cial	started in feele	1 9/23/15 1206						
Sufficient Sample Quantity Comment	1								