



January 31, 2017

Mr. Gerald DeMers  
Environmental Engineer  
Wisconsin Department of Natural Resources  
141 NW Barstow Street, Room 180  
Waukesha, WI 53188

RE: Soil Disposal Information Associated with the R&R Excavating Site  
Located On Highway I in the Town of Cedarburg, Wisconsin — FEC  
Project No. 041013

Dear Mr. Demers:

As you are aware, ***Friess Environmental Consulting, Inc. (FEC)*** has submitted requests for disposal of soils from construction projects at the above-referenced site (the “Site”) under the Wisconsin Department of Natural Resources (DNR) low-hazard exemption (LHE) per s. 289.43(8) of the Wisconsin Statutes and/or the exemption per ch. NR 718.12 Wisconsin Administrative Code (WAC). The DNR did grant approval for five projects to dispose of soils in 2016. Several of the approvals required the submittal of an annual report to include a listing of projects that brought soils to the R&R Excavating site, an estimate of the remaining disposal capacity, and the results of groundwater sampling and analytical testing conducted at the Site. This letter provides documentation for soils disposed of in 2016 and the results of continued groundwater monitoring.

In 2016, FEC documented the disposal of 3,512 truckloads. It is estimated that each truck contained approximately 10 yards. As such, approximately 35,120 cubic yards of soil were disposed of at the Site in 2016. A summary of the filling operations per month for each project is included on the attached Table. It is estimated that the remaining capacity at the Site is approximately 472,000 cubic yards.

Placement of the soils at the Site did not occur within a floodplain; within 100 feet of any wetland or critical habitat area; within 300 feet of any navigable river, stream, lake, pond or flowage; within 100 feet of any on-site water supply well or 300 feet of any off-site water supply well, within 3 feet of the groundwater table, in an area where single family housing will be the final use, or as use as an exposed final grade layer.

The results of soil and groundwater analytical testing conducted on the source sites were provided to the DNR in each exemption request that was submitted and reviewed by the DNR. The results continue to demonstrate that the PAH and metals detected within the soils are not considered a risk to groundwater. The exposure pathways are further protected with the conditions of the Site, including the final use of the Site as agricultural (no development or potable wells) and capping of the Site with at least 2 feet of clean material, and the approved reclamation plan for the Site.

On June 16 and November 3, 2016, FEC collected a groundwater sample from MW-1 and a grab sample from the stormwater pond (SW). The water samples collected were submitted to a DNR-certified laboratory for analyses of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs) and dissolved RCRA metals. No VOCs or select RCRA metals were detected in the water samples. No PAHs were detected with the exception of several low level or "J Flag" concentrations detected during the June sampling event. The detections are likely attributable slight turbidity in the sample collected. No PAHs were detected in the water samples collected during the November sampling event. The results of all the testing were below their applicable DNR groundwater quality standards. The analytical reports are included with this letter.

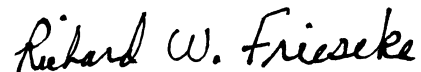
We hope this letter provides sufficient information regarding disposal of material in 2016 at the R&R Excavating Site. If you have any questions or comments regarding this submittal, please contact us at (414) 228-9815.

Respectfully,

***Friess Environmental Consulting, Inc.***



Trenton J. Ott  
Project Manager



Richard W. Frieseke, P.E.  
President

CC: Mr. Barry Sullivan; Ozaukee County Resource Board  
Mr. Richard Charmoli; Charmoli Holdings, LLC

041013 2016

# Summary of 2016 Filling Operations R&R Excavating Site Town of Cedarburg

FEC Project #	Project Name	# of Truckloads	Month	Year
150502	North End IV (1501 N Water St.)	310	January	2016
		667	February	2016
		201	March	2016
		22	April	2016
		3	May	2016
		14	June	2016
		Total	1217	
150311	Rhythm	33	January	2016
		29	February	2016
		Total	62	2016
140103	Rivercrest	5	May	2016
		4	June	2016
		Total	9	2016
151109	Westin Hotel	326	March	2016
		224	April	2016
		90	May	2016
		76	June	2016
		38	July	2016
		77	August/October	2016
		Total	831	
150310	Trio	13	January	2016
		55	February	2016
		21	May	2016
		2	August	2016
		8	September	2016
		Total	99	
150805	Grafton	397	June	2016
		314	July	2016
		99	August/Sept	2016
		92	December	2016
		Total	902	
141201	33 <sup>rd</sup> Street	10	June	2016
		38	July	2016
		1	August	2016
		1	September	2016
		Total	50	

FEC Project #	Project Name	# of Truckloads	Month	Year
150807	Greenwich	7	September	2016
		2	October	2016
		1	November	2016
		Total	10	2016
160806	VA Parking	67	December	2016
		Total	67	2016
160804	Whitestone Junction	265	November	2016
		Total	265	2016
Sub Total Page 2		342		
Sub Total Page 1		3170		
Grand Total 2016		3512		

**Table 1**  
**VOC Groundwater Analytical Results**  
**R&R Excavating Site - CDS**  
**Cedarburg, Wisconsin**

Sample Location	Sampling Date	Benzene (ppb)	Chloro-ethane (ppb)	1,1-DCA (ppb)	1,2-DCA (ppb)	1,1-DCE (ppb)	cis-1,2-DCE (ppb)	Ethyl-benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	1,1,1-TCA (ppb)	TCE (ppb)	Combined TMBs (ppb)	Vinyl Chloride (ppb)	Total Xylenes (ppb)
QP-1	6/7/12	<0.50	<1.40	<0.98	<0.50	<0.60	<0.74	<0.78	<0.80	<2.10	<0.53	<0.85	<0.47	<1.54	<0.18	<1.90
SW	10/27/15	<0.44	<0.65	<1.1	<0.48	<0.65	<0.45	<0.71	<1.1	<1.6	<0.44	<0.84	<0.47	<3.10	<0.17	<3.10
MW-1	8/22/12	<0.50	<1.40	<0.98	<0.50	<0.60	<0.74	<0.78	<0.80	<2.10	<0.53	<0.85	<0.47	<1.54	<0.18	<1.90
	8/30/13	<0.24	<0.63	<0.30	<0.41	<0.40	<0.38	<0.55	<0.23	<1.70	<0.69	<0.33	<0.33	<3.60	<0.18	<1.32
	12/6/13	<0.24	<0.63	<0.30	<0.41	<0.40	<0.38	<0.55	<0.23	<1.70	<0.69	<0.33	<0.33	<3.60	<0.18	<1.32
	5/9/14	<0.24	<0.63	<0.30	<0.41	<0.40	<0.38	<0.55	<0.23	<1.70	<0.69	<0.33	<0.33	<3.60	<0.18	<1.32
	9/10/14	<0.24	<0.63	<0.30	<0.41	<0.40	<0.38	<0.55	<0.23	<1.70	<0.69	<0.33	<0.33	<3.60	<0.18	<1.32
	10/27/15	<0.44	<0.65	<1.1	<0.48	<0.65	<0.45	<0.71	<1.1	<1.6	<0.44	<0.84	<0.47	<3.10	<0.17	<3.10
	6/16/16	<0.44	<0.65	<1.1	<0.48	<0.65	<0.45	<0.71	<1.1	<1.6	<0.44	<0.84	<0.47	<3.10	<0.17	<3.10
11/3/16	<0.44	<0.65	<1.1	<0.48	<0.65	<0.45	<0.71	<1.1	<1.6	<0.44	<0.84	<0.47	<3.10	<0.17	<3.10	
ES (ppb)	-	5	400	850	5	7	70	700	60	100	1,000	200	5	480	0.02	10,000
PAL (ppb)	-	0.5	80	85	0.5	0.7	7	140	12	10	200	40	0.5	96	0.2	1,000

Notes:

Concentrations that exceed their respective PALs are in *blue italics*.

Concentrations that exceed their respective ESs are in **red bold** type.

J Concentration detected slightly above LOD and likely attributable to sediment in sample or laboratory artifact

**Table 2**  
**Groundwater PAH & Metals Analytical Results**  
**R&R Excavating Site - CDS**  
**Cedarburg, Wisconsin**

Test Description	QP-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	SW-1	MW-1	SW-1	MW-1	SW-1	NR 140 PAL	NR 140 ES
Sample Date	6/7/12	8/22/12	8/31/12	8/30/13	12/6/13	5/9/14	9/10/14	10/27/15	10/27/15	6/16/16	6/16/16	11/3/16	11/3/16		
<b>PAHs (µg/kg)</b>															
acenaphthene	<0.025	0.037J	<0.025	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	0.076	0.032J	<0.016	<0.016	-	-
acenaphthylene	<0.019	<0.019	<0.019	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.058J	<0.02	<0.019	<0.019	-	-
anthracene	<0.018	0.02J	<0.018	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.019	<0.019	600	3,000
benzo(a)anthracene	<0.024	0.026J	<0.024	<0.025	<0.025	0.031J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.017	<0.017	-	-
benzo(a)pyrene	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.02	<0.02	<0.02	<0.02	<0.02	<0.021	<0.021	0.02	0.2
benzo(b)fluoranthene	<0.02	0.022J	<0.02	<0.02	<0.02	<0.02	<0.019	<0.019	<0.019	<0.019	<0.019	<0.018	<0.018	0.02	0.2
benzo(g,h,i)perylene	<0.019	0.021J	<0.019	<0.023	<0.023	<0.023	<0.024	<0.024	<0.024	<0.024	<0.024	<0.025	<0.025	-	-
benzo(k)fluoranthene	<0.022	<0.022	<0.022	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.016	<0.016	-	-
chrysene	<0.019	0.021J	<0.019	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.02	<0.02	0.02	0.2
dibenzo(a,h)anthracene	<0.019	<0.019	<0.019	<0.023	<0.023	<0.023	<0.028	<0.028	<0.028	<0.028	<0.028	<0.025	<0.025	-	-
fluoranthene	<0.022	0.043J	<0.022	<0.026	<0.026	<0.026	<0.022	<0.022	<0.022	<0.022	<0.022	0.021J	<0.017	80	400
fluorene	<0.02	0.027J	<0.02	<0.02	<0.02	<0.02	<0.022	0.021J	<0.022	0.021J	0.075	<0.021	<0.021	80	400
indeno(1,2,3-cd)pyrene	<0.018	<0.018	<0.018	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.023	<0.023	-	-
1-methylnaphthalene	<0.022	<0.022	<0.022	<0.019	<0.019	<0.019	<0.021	<0.021	<0.021	<0.021	0.072	<0.024	<0.024	-	-
2-methylnaphthalene	<0.024	<0.024	<0.024	<0.016	<0.016	<0.016	<0.024	<0.024	<0.024	<0.024	0.086	<0.024	<0.024	-	-
naphthalene	<0.021	<0.021	<0.021	<0.023	<0.025	<0.023	0.033J	0.029J	0.020J	0.029J	0.037	<0.019	<0.019	10	100
phenanthrene	<0.019	<0.019	<0.019	0.035J	<0.018	<0.018	<0.018	<0.018	0.023J	0.251	0.181	0.037J	0.037J	-	-
pyrene	<0.02	0.036J	<0.02	<0.025	<0.025	<0.025	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	50	250
<b>Metals (mg/kg)</b>															
arsenic	<0.25	0.61J	NA	<0.60	<0.6	<0.60	<0.6	<0.6	1.0J	<0.60	<0.60	<0.6	<0.6	5	50
barium	<0.36	63	NA	15.5	NA	18.3	NA	NA	NA	16.7J	12.47J	NA	NA	400	2,000
cadmium	<0.16	0.22J	NA	<0.50	NA	<0.50	NA	NA	NA	<0.30	<0.30	NA	NA	0.5	5
chromium	0.57	0.92J	NA	<2.60	NA	<2.60	NA	NA	NA	<1.80	<1.80	NA	NA	10	100
lead	<0.24	1.7	NA	<0.70	<0.7	<0.70	<0.7	<0.7	<0.7	<0.80	<0.80	<0.8	<0.8	1.5	15
mercury	0.02	<0.015	NA	<0.04	NA	<0.04	NA	NA	NA	<0.11	<0.11	NA	NA	0.2	2
selenium	<0.38	2.5	NA	<2.00	NA	<2.00	NA	NA	NA	<1.10	<1.10	NA	NA	10	50
silver	<0.31	<0.31	NA	<10.3	NA	<10.3	NA	NA	NA	<8.4	<8.4	NA	NA	10	50

Notes:

1. "-" = not analyzed or no standards have been established.
2. J Concentration detected slightly above LOD and likely attributable to sediment in sample .
3. Concentrations in **red bold** exceed their respective enforcement standards (ESs).

**Table 3**  
**Groundwater Elevation Measurements**  
**R&R Excavating Site - CDS**  
**Cedarburg, Wisconsin**

<b>Well Number</b>	<b>Date</b>	<b>*Total Well Depth</b>	<b>Ground Surface Elevation</b>	<b>Top of Casing Elevation</b>	<b>*Depth to Water Below Casing</b>	<b>Groundwater Elevation</b>
<b>MW-1</b>	8/21/2012	90.00	832.30	835.50	70.21	<b>765.29</b>
	5/10/2013				66.87	<b>768.63</b>
	8/29/2013				69.82	<b>765.68</b>
	12/6/2013				66.87	<b>768.63</b>
	5/9/2014				67.41	<b>768.09</b>
	9/10/2014				65.40	<b>770.10</b>
	10/27/2015				59.57	<b>775.93</b>
	6/19/2016				52.22	<b>783.28</b>
	11/3/2016				48.80	<b>786.70</b>

Notes:

1. \*Measured from the north rim of the top of well casing.
2. All measurements are presented in feet.
3. Elevations are referenced to monument benchmark SE 1/4 of the NE 1/4 corner of Section 22 T 10N R 21E which has an elevation of 833.26 feet.

# Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

RICK FRIESEKE  
FEC, INC.  
6637 N. SIDNEY PLACE  
MILWAUKEE, WI 53209

Report Date 30-Jun-16

Project Name R&R EXCAVATING  
Project # 041013

Invoice # E31271

Lab Code 5031271A  
Sample ID MW-1  
Sample Matrix Water  
Sample Date 6/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	< 0.6	ug/L	0.6	1.9	1	7060A		6/24/2016	CWT	1
Barium, Dissolved	16.7 "J"	ug/L	7.8	25	1	200.7		6/28/2016	CWT	1
Cadmium, Dissolved	< 0.3	ug/L	0.3	1	1	200.7		6/28/2016	CWT	1
Chromium, Dissolved	< 1.8	ug/L	1.8	5.6	1	200.7		6/28/2016	CWT	1
Lead, Dissolved	< 0.8	ug/L	0.8	2.6	1	7421		6/28/2016	CWT	1
Mercury, Dissolved	< 0.11	ug/L	0.11	0.35	1	245.1		6/29/2016	CWT	1
Selenium, Dissolved	< 1.1	ug/l	1.1	3.7	1	7740		6/29/2016	CWT	1
Silver, Dissolved	< 8.4	ug/L	8.4	27.9	1	200.7		6/28/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	0.076	ug/l	0.016	0.05	1	M8270C	6/23/2016	6/24/2016	MJR	1
Acenaphthylene	0.058 "J"	ug/l	0.019	0.061	1	M8270C	6/23/2016	6/24/2016	MJR	1
Anthracene	< 0.019	ug/l	0.019	0.062	1	M8270C	6/23/2016	6/24/2016	MJR	1
Benzo(a)anthracene	< 0.017	ug/l	0.017	0.054	1	M8270C	6/23/2016	6/24/2016	MJR	1
Benzo(a)pyrene	< 0.021	ug/l	0.021	0.067	1	M8270C	6/23/2016	6/24/2016	MJR	1
Benzo(b)fluoranthene	< 0.018	ug/l	0.018	0.058	1	M8270C	6/23/2016	6/24/2016	MJR	1
Benzo(g,h,i)perylene	< 0.025	ug/l	0.025	0.081	1	M8270C	6/23/2016	6/24/2016	MJR	1
Benzo(k)fluoranthene	< 0.016	ug/l	0.016	0.05	1	M8270C	6/23/2016	6/24/2016	MJR	1
Chrysene	< 0.02	ug/l	0.02	0.065	1	M8270C	6/23/2016	6/24/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.078	1	M8270C	6/23/2016	6/24/2016	MJR	1
Fluoranthene	< 0.017	ug/l	0.017	0.053	1	M8270C	6/23/2016	6/24/2016	MJR	1
Fluorene	0.122	ug/l	0.021	0.066	1	M8270C	6/23/2016	6/24/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.023	ug/l	0.023	0.074	1	M8270C	6/23/2016	6/24/2016	MJR	1
1-Methyl naphthalene	0.16	ug/l	0.024	0.076	1	M8270C	6/23/2016	6/24/2016	MJR	1
2-Methyl naphthalene	0.194	ug/l	0.024	0.075	1	M8270C	6/23/2016	6/24/2016	MJR	1
Naphthalene	0.06 "J"	ug/l	0.019	0.06	1	M8270C	6/23/2016	6/24/2016	MJR	1
Phenanthrene	0.251	ug/l	0.055	0.055	1	M8270C	6/23/2016	6/24/2016	MJR	1
Pyrene	< 0.02	ug/l	0.02	0.063	1	M8270C	6/23/2016	6/24/2016	MJR	1
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		6/28/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		6/28/2016	CJR	1



**Project Name** R&R EXCAVATING  
**Project #** 041013

**Invoice #** E31271

**Lab Code** 5031271A  
**Sample ID** MW-1  
**Sample Matrix** Water  
**Sample Date** 6/19/2016

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B	6/28/2016	6/28/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B	6/28/2016	6/28/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B	6/28/2016	6/28/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B	6/28/2016	6/28/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B	6/28/2016	6/28/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B	6/28/2016	6/28/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B	6/28/2016	6/28/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B	6/28/2016	6/28/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B	6/28/2016	6/28/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B	6/28/2016	6/28/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B	6/28/2016	6/28/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B	6/28/2016	6/28/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B	6/28/2016	6/28/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B	6/28/2016	6/28/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B	6/28/2016	6/28/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B	6/28/2016	6/28/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B	6/28/2016	6/28/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B	6/28/2016	6/28/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B	6/28/2016	6/28/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B	6/28/2016	6/28/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B	6/28/2016	6/28/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B	6/28/2016	6/28/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B	6/28/2016	6/28/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B	6/28/2016	6/28/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B	6/28/2016	6/28/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B	6/28/2016	6/28/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B	6/28/2016	6/28/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B	6/28/2016	6/28/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B	6/28/2016	6/28/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B	6/28/2016	6/28/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B	6/28/2016	6/28/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B	6/28/2016	6/28/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B	6/28/2016	6/28/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B	6/28/2016	6/28/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B	6/28/2016	6/28/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B	6/28/2016	6/28/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B	6/28/2016	6/28/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B	6/28/2016	6/28/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B	6/28/2016	6/28/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B	6/28/2016	6/28/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B	6/28/2016	6/28/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B	6/28/2016	6/28/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B	6/28/2016	6/28/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B	6/28/2016	6/28/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B	6/28/2016	6/28/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B	6/28/2016	6/28/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B	6/28/2016	6/28/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B	6/28/2016	6/28/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B	6/28/2016	6/28/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B	6/28/2016	6/28/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B	6/28/2016	6/28/2016	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B	6/28/2016	6/28/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B	6/28/2016	6/28/2016	CJR	1
SUR - 4-Bromofluorobenzene	108	REC %			1	8260B	6/28/2016	6/28/2016	CJR	1
SUR - Toluene-d8	84	REC %			1	8260B	6/28/2016	6/28/2016	CJR	1

**Project Name** R&R EXCAVATING  
**Project #** 041013

**Invoice #** E31271

**Lab Code** 5031271B  
**Sample ID** SW-1  
**Sample Matrix** Water  
**Sample Date** 6/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
<b>Inorganic</b>										
<b>Metals</b>										
Arsenic, Dissolved	< 0.6	ug/L	0.6	1.9	1	7060A		6/24/2016	CWT	1
Barium, Dissolved	12.4 "J"	ug/L	7.8	25	1	200.7		6/28/2016	CWT	1
Cadmium, Dissolved	< 0.3	ug/L	0.3	1	1	200.7		6/28/2016	CWT	1
Chromium, Dissolved	< 1.8	ug/L	1.8	5.6	1	200.7		6/28/2016	CWT	1
Lead, Dissolved	< 0.8	ug/L	0.8	2.6	1	7421		6/28/2016	CWT	1
Mercury, Dissolved	< 0.11	ug/L	0.11	0.35	1	245.1		6/29/2016	CWT	1
Selenium, Dissolved	< 1.1	ug/l	1.1	3.7	1	7740		6/29/2016	CWT	1
Silver, Dissolved	< 8.4	ug/L	8.4	27.9	1	200.7		6/28/2016	CWT	1
<b>Organic</b>										
<b>PAH SIM</b>										
Acenaphthene	0.032 "J"	ug/l	0.016	0.05	1	M8270C	6/23/2016	6/24/2016	MJR	1
Acenaphthylene	< 0.019	ug/l	0.019	0.061	1	M8270C	6/23/2016	6/24/2016	MJR	1
Anthracene	< 0.019	ug/l	0.019	0.062	1	M8270C	6/23/2016	6/24/2016	MJR	1
Benzo(a)anthracene	0.0196 "J"	ug/l	0.017	0.054	1	M8270C	6/23/2016	6/24/2016	MJR	1
Benzo(a)pyrene	< 0.021	ug/l	0.021	0.067	1	M8270C	6/23/2016	6/24/2016	MJR	1
Benzo(b)fluoranthene	< 0.018	ug/l	0.018	0.058	1	M8270C	6/23/2016	6/24/2016	MJR	1
Benzo(g,h,i)perylene	< 0.025	ug/l	0.025	0.081	1	M8270C	6/23/2016	6/24/2016	MJR	1
Benzo(k)fluoranthene	< 0.016	ug/l	0.016	0.05	1	M8270C	6/23/2016	6/24/2016	MJR	1
Chrysene	< 0.02	ug/l	0.02	0.065	1	M8270C	6/23/2016	6/24/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.078	1	M8270C	6/23/2016	6/24/2016	MJR	1
Fluoranthene	< 0.017	ug/l	0.017	0.053	1	M8270C	6/23/2016	6/24/2016	MJR	1
Fluorene	0.075	ug/l	0.021	0.066	1	M8270C	6/23/2016	6/24/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.023	ug/l	0.023	0.074	1	M8270C	6/23/2016	6/24/2016	MJR	1
1-Methyl naphthalene	0.072 "J"	ug/l	0.024	0.076	1	M8270C	6/23/2016	6/24/2016	MJR	1
2-Methyl naphthalene	0.086	ug/l	0.024	0.075	1	M8270C	6/23/2016	6/24/2016	MJR	1
Naphthalene	0.037 "J"	ug/l	0.019	0.06	1	M8270C	6/23/2016	6/24/2016	MJR	1
Phenanthrene	0.181	ug/l	0.055	0.055	1	M8270C	6/23/2016	6/24/2016	MJR	1
Pyrene	< 0.02	ug/l	0.02	0.063	1	M8270C	6/23/2016	6/24/2016	MJR	1
<b>VOC's</b>										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		6/28/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		6/28/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		6/28/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		6/28/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		6/28/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		6/28/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		6/28/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		6/28/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		6/28/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		6/28/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		6/28/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		6/28/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		6/28/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		6/28/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		6/28/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		6/28/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		6/28/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		6/28/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		6/28/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		6/28/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		6/28/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		6/28/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		6/28/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		6/28/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		6/28/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		6/28/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		6/28/2016	CJR	1

**Project Name** R&R EXCAVATING  
**Project #** 041013

**Invoice #** E31271

**Lab Code** 5031271B  
**Sample ID** SW-1  
**Sample Matrix** Water  
**Sample Date** 6/19/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B	6/28/2016	6/28/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B	6/28/2016	6/28/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B	6/28/2016	6/28/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B	6/28/2016	6/28/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B	6/28/2016	6/28/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B	6/28/2016	6/28/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B	6/28/2016	6/28/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B	6/28/2016	6/28/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B	6/28/2016	6/28/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B	6/28/2016	6/28/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B	6/28/2016	6/28/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B	6/28/2016	6/28/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B	6/28/2016	6/28/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B	6/28/2016	6/28/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B	6/28/2016	6/28/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B	6/28/2016	6/28/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B	6/28/2016	6/28/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B	6/28/2016	6/28/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B	6/28/2016	6/28/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B	6/28/2016	6/28/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B	6/28/2016	6/28/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B	6/28/2016	6/28/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B	6/28/2016	6/28/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B	6/28/2016	6/28/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B	6/28/2016	6/28/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B	6/28/2016	6/28/2016	CJR	1
SUR - Toluene-d8	84	REC %			1	8260B	6/28/2016	6/28/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B	6/28/2016	6/28/2016	CJR	1
SUR - 4-Bromofluorobenzene	107	REC %			1	8260B	6/28/2016	6/28/2016	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B	6/28/2016	6/28/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

**Code**      **Comment**

1      Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

**Authorized Signature**

# Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

RICK FRIESEKE  
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6637 N. SIDNEY PLACE  
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Report Date 25-Nov-16

Project Name R&R EXCAVATING  
Project # 041013

Invoice # E32033

Lab Code 5032033A  
Sample ID MW-1  
Sample Matrix Water  
Sample Date 11/3/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	< 0.6	ug/L	0.6	1.9	1	7060A		11/9/2016	CWT	1
Lead, Dissolved	< 0.8	ug/L	0.8	2.6	1	7421		11/11/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.016	ug/l	0.016	0.05	1	M8270C	11/10/2016	11/10/2016	MJR	1
Acenaphthylene	< 0.019	ug/l	0.019	0.061	1	M8270C	11/10/2016	11/10/2016	MJR	1
Anthracene	< 0.019	ug/l	0.019	0.062	1	M8270C	11/10/2016	11/10/2016	MJR	1
Benzo(a)anthracene	< 0.017	ug/l	0.017	0.054	1	M8270C	11/10/2016	11/10/2016	MJR	1
Benzo(a)pyrene	< 0.021	ug/l	0.021	0.067	1	M8270C	11/10/2016	11/10/2016	MJR	1
Benzo(b)fluoranthene	< 0.018	ug/l	0.018	0.058	1	M8270C	11/10/2016	11/10/2016	MJR	1
Benzo(g,h,i)perylene	< 0.025	ug/l	0.025	0.081	1	M8270C	11/10/2016	11/10/2016	MJR	1
Benzo(k)fluoranthene	< 0.016	ug/l	0.016	0.05	1	M8270C	11/10/2016	11/10/2016	MJR	1
Chrysene	< 0.02	ug/l	0.02	0.065	1	M8270C	11/10/2016	11/10/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.078	1	M8270C	11/10/2016	11/10/2016	MJR	1
Fluoranthene	0.0213 "J"	ug/l	0.017	0.053	1	M8270C	11/10/2016	11/10/2016	MJR	1
Fluorene	< 0.021	ug/l	0.021	0.066	1	M8270C	11/10/2016	11/10/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.023	ug/l	0.023	0.074	1	M8270C	11/10/2016	11/10/2016	MJR	1
1-Methyl naphthalene	< 0.024	ug/l	0.024	0.076	1	M8270C	11/10/2016	11/10/2016	MJR	1
2-Methyl naphthalene	< 0.024	ug/l	0.024	0.075	1	M8270C	11/10/2016	11/10/2016	MJR	1
Naphthalene	< 0.019	ug/l	0.019	0.06	1	M8270C	11/10/2016	11/10/2016	MJR	1
Phenanthrene	0.037 "J"	ug/l	0.017	0.055	1	M8270C	11/10/2016	11/10/2016	MJR	1
Pyrene	< 0.02	ug/l	0.02	0.063	1	M8270C	11/10/2016	11/10/2016	MJR	1
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/10/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		11/10/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/10/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		11/10/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		11/10/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		11/10/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		11/10/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		11/10/2016	CJR	1

**Project Name** R&R EXCAVATING  
**Project #** 041013

**Invoice #** E32033

**Lab Code** 5032033A  
**Sample ID** MW-1  
**Sample Matrix** Water  
**Sample Date** 11/3/2016

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		11/10/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		11/10/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		11/10/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		11/10/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		11/10/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		11/10/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		11/10/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/10/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		11/10/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		11/10/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		11/10/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		11/10/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		11/10/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/10/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		11/10/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		11/10/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		11/10/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		11/10/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		11/10/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		11/10/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		11/10/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		11/10/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		11/10/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		11/10/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		11/10/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		11/10/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		11/10/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		11/10/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		11/10/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		11/10/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		11/10/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		11/10/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		11/10/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		11/10/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		11/10/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		11/10/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		11/10/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		11/10/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/10/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		11/10/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		11/10/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		11/10/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		11/10/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		11/10/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		11/10/2016	CJR	1
SUR - Dibromofluoromethane	108	REC %			1	8260B		11/10/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	91	REC %			1	8260B		11/10/2016	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		11/10/2016	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		11/10/2016	CJR	1

Project Name R&R EXCAVATING  
 Project # 041013

Invoice # E32033

Lab Code 5032033B  
 Sample ID SW  
 Sample Matrix Water  
 Sample Date 11/3/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	< 0.6	ug/L	0.6	1.9	1	7060A	11/9/2016	11/9/2016	CWT	1
Lead, Dissolved	< 0.8	ug/L	0.8	2.6	1	7421	11/11/2016	11/11/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.016	ug/l	0.016	0.05	1	M8270C	11/10/2016	11/10/2016	MJR	1
Acenaphthylene	< 0.019	ug/l	0.019	0.061	1	M8270C	11/10/2016	11/10/2016	MJR	1
Anthracene	< 0.019	ug/l	0.019	0.062	1	M8270C	11/10/2016	11/10/2016	MJR	1
Benzo(a)anthracene	< 0.017	ug/l	0.017	0.054	1	M8270C	11/10/2016	11/10/2016	MJR	1
Benzo(a)pyrene	< 0.021	ug/l	0.021	0.067	1	M8270C	11/10/2016	11/10/2016	MJR	1
Benzo(b)fluoranthene	< 0.018	ug/l	0.018	0.058	1	M8270C	11/10/2016	11/10/2016	MJR	1
Benzo(g,h,i)perylene	< 0.025	ug/l	0.025	0.081	1	M8270C	11/10/2016	11/10/2016	MJR	1
Benzo(k)fluoranthene	< 0.016	ug/l	0.016	0.05	1	M8270C	11/10/2016	11/10/2016	MJR	1
Chrysene	< 0.02	ug/l	0.02	0.065	1	M8270C	11/10/2016	11/10/2016	MJR	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.078	1	M8270C	11/10/2016	11/10/2016	MJR	1
Fluoranthene	< 0.017	ug/l	0.017	0.053	1	M8270C	11/10/2016	11/10/2016	MJR	1
Fluorene	< 0.021	ug/l	0.021	0.066	1	M8270C	11/10/2016	11/10/2016	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.023	ug/l	0.023	0.074	1	M8270C	11/10/2016	11/10/2016	MJR	1
1-Methyl naphthalene	< 0.024	ug/l	0.024	0.076	1	M8270C	11/10/2016	11/10/2016	MJR	1
2-Methyl naphthalene	< 0.024	ug/l	0.024	0.075	1	M8270C	11/10/2016	11/10/2016	MJR	1
Naphthalene	< 0.019	ug/l	0.019	0.06	1	M8270C	11/10/2016	11/10/2016	MJR	1
Phenanthrene	0.037 "J"	ug/l	0.017	0.055	1	M8270C	11/10/2016	11/10/2016	MJR	1
Pyrene	< 0.02	ug/l	0.02	0.063	1	M8270C	11/10/2016	11/10/2016	MJR	1
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B	11/10/2016	11/10/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B	11/10/2016	11/10/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B	11/10/2016	11/10/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B	11/10/2016	11/10/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B	11/10/2016	11/10/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B	11/10/2016	11/10/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B	11/10/2016	11/10/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B	11/10/2016	11/10/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B	11/10/2016	11/10/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B	11/10/2016	11/10/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B	11/10/2016	11/10/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B	11/10/2016	11/10/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B	11/10/2016	11/10/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B	11/10/2016	11/10/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B	11/10/2016	11/10/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B	11/10/2016	11/10/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B	11/10/2016	11/10/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B	11/10/2016	11/10/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B	11/10/2016	11/10/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B	11/10/2016	11/10/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B	11/10/2016	11/10/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B	11/10/2016	11/10/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B	11/10/2016	11/10/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B	11/10/2016	11/10/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B	11/10/2016	11/10/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B	11/10/2016	11/10/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B	11/10/2016	11/10/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B	11/10/2016	11/10/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B	11/10/2016	11/10/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B	11/10/2016	11/10/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B	11/10/2016	11/10/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B	11/10/2016	11/10/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B	11/10/2016	11/10/2016	CJR	1

**Project Name** R&R EXCAVATING  
**Project #** 041013

**Invoice #** E32033

**Lab Code** 5032033B  
**Sample ID** SW  
**Sample Matrix** Water  
**Sample Date** 11/3/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		11/10/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		11/10/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		11/10/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		11/10/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		11/10/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		11/10/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		11/10/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		11/10/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		11/10/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		11/10/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		11/10/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		11/10/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		11/10/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/10/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		11/10/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		11/10/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		11/10/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		11/10/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		11/10/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		11/10/2016	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		11/10/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		11/10/2016	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		11/10/2016	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		11/10/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

**Code**      **Comment**

1      Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

**Authorized Signature**