



February 8, 2018

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 two projects to dispose of soils in 2017. 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 2017 and the results of continued groundwater monitoring.

In 2017, FEC documented the disposal of 7,341 truckloads. It is estimated that each truck contained approximately 10 yards. As such, approximately 73,400 cubic yards of soil were disposed of at the Site in 2017. A summary of the filling operations per month is included on the attached Table. It is estimated that the remaining capacity at the Site is approximately 398,600 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 22 and October 20, 2017, 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 select 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.

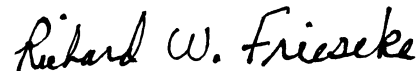
We hope this letter provides sufficient information regarding disposal of material in 2017 at the R&R Excavating Site. If you have any questions or comments regarding this submittal, please contact us at (414) 228-9815.

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 2017

Summary of Filling Operations  
 January 1, 2017 to December 31, 2017

R&R Excavating Site -Town of Cedarburg

FEC Project #	Project Name	# of Truckloads	Month	Year
041013	Charmoli Holdings	534	January	2017
		76	February	2017
		362	March	2017
		1225	April	2017
		1219	May	2017
		988	June	2017
		925	July	2017
		592	August	2017
		400	September	2017
		369	October	2017
		180	November	2017
		471	December	2017
	Total	7341		

# Summary of 2017 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.)	15	March	2017
		<u>11</u>	April	2017
		Total		26
150311	Rhythm	<u>2</u>	February	2017
		Total		2
140103	Covanta	64	January	2017
		<u>49</u>	May-Oct	2017
		Total		113
151109	Westin Hotel	<u>3</u>	Jan-Feb	2017
		Total		3
160806	VA Parking	468	January	2017
		76	February	2017
		4	March	2017
		167	April	2017
		194	May	2017
		105	July	2017
		3	August	2017
		149	September	2017
		9	October	2017
		<u>20</u>	November	2017
		Total		1195
150805	Grafton	11	April	2017
		118	July	2017
		100	November	2017
		<u>100</u>	December	2017
		Total		329
Sub Total Page 1		1668		

FEC Project #	Project Name	# of Truckloads	Month	Year
150502	North End V (404 E. Lyons Street)	290	March	2017
		465	April	2017
		61	May	2017
		33	June	2017
		7	July	2017
		14	August	2017
		<u>9</u>	September	2017
		Total	879	
161101	Griot	55	June	2017
		81	July	2017
		32	August	2017
		15	September	2017
		<u>2</u>	December	2017
Total	185			
160802	Providence Place	50	May	2017
		<u>19</u>	July	2017
Total	69			
160601	Mayfair Collections	535	April	2017
		<u>774</u>	May	2017
Total	1309			
171103	Franklin Place	<u>363</u>	December	2017
Total		363		2017
160904	2615 Silver Spring	50	March	2017
		36	April	2017
		10	May	2017
		14	June	2017
		<u>161</u>	August	2017
Total	271			
140409	Echelon	<u>104</u>	May	2017
Total		104		
Sub Total Page 2		3180		

FEC Project #	Project Name	# of Truckloads	Month	Year
160908	Brewery Block 4 & 5	333	July	2017
		378	August	2017
		209	September	2017
		182	October	2017
		32	November	2017
		<u>6</u>	December	2017
	Total	1140		
170402	VA Urgent Care	179	October	2017
		<u>21</u>	November	2017
	Total	200		
160402	Shorewood Senior	889	June	2017
		250	July	2017
		7	September	2017
		<u>7</u>	November	2017
	Total	1153		
	Sub Total Page 3	2493		
	Sub Total Page 2	3180		
	Sub Total Page 1	1668		
	TOTAL 2017	7341		

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

Sample Location	Sampling Date	Benzene (ppb)	Chloroethane (ppb)	1,1-DCA (ppb)	1,2-DCA (ppb)	1,1-DCE (ppb)	cis-1,2-DCE (ppb)	Ethylbenzene (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
	6/22/17	<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
10/20/17	<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 ESSs 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	MW-1	SW-1	MW-1	SW-1	NR TRU PAI	NR TRU FS
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	6/22/17	6/22/17	10/20/17	10/20/17		
<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	<0.016	<0.016	<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	0.033J	<0.019	0.033J	<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	<0.019	<0.019	<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	<0.019	0.0187J	<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	<0.021	<0.021	<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	<0.018	<0.018	<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	<0.025	<0.025	<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	0.0168J	0.0168J	<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	<0.02	<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	<0.025	<0.025	<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	0.021J	0.021J	0.021J	0.021J	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	<0.021	<0.021	<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	<0.023	<0.023	<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	<0.024	<0.024	<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	0.0248J	<0.024	<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	<0.062J	<0.019	<0.062J	<0.019	<0.043J	<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	0.037J	0.037J	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	<0.022	<0.022	<0.022	0.0316J	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	<0.7	<0.7	1.3J	0.8J	5	50
barium	<0.36	63	NA	15.5	NA	18.3	NA	NA	NA	16.7J	12.47J	NA	NA	NA	NA	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	NA	NA	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	NA	NA	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	<0.9	<0.9	<0.9	<0.9	1.5	15
mercury	0.02	<0.015	NA	<0.04	NA	<0.04	NA	NA	NA	<0.11	<0.11	NA	NA	NA	NA	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	NA	NA	NA	NA	10	50
silver	<0.31	<0.31	NA	<10.3	NA	<10.3	NA	NA	NA	<8.4	<8.4	NA	NA	NA	NA	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>
	6/22/2017				39.93	<b>795.57</b>
	10/20/2017				845.50	38.11

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.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

**Sample Handling Request**  
 Rush Analysis Date Required \_\_\_\_\_  
 (Rushes accepted only with prior authorization)  
 Normal Turn Around

Lab I.D. # \_\_\_\_\_ Quote No.: \_\_\_\_\_  
 Account No.: \_\_\_\_\_  
 Project #: 041013  
 Sampler: (signature) Mitch J. Ott  
 Project (Name / Location): RTR Excavating  
 Reports To: Trenton Ott  
 Company: FEG Inc.  
 Address: 6637 N Sidney Place  
 City State Zip: Milwaukee, WI 53209  
 Phone: (414) 228-9815  
 FAX: (414) 228-9816

Invoice To: Same  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City State Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 FAX: \_\_\_\_\_

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	Asbestos	PID/ FID
503317A	SW	6/23/17	AM	Y	↓	N	5	SW	HCl	X	X	X			X						X	X	X		
B	HW-1	↓	↓	↓	↓	↓	↓	GW	↓	X	X														

Comments/Special Instructions ("Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

\* Lab filter + preserve for lead + arsenic.

Sample Integrity - To be completed by receiving lab.  
 Method of Shipment: Cooler  
 Temp. of Temp. Blank: \_\_\_\_\_ °C On Ice:   
 Cooler seal intact upon receipt:  Yes \_\_\_\_\_ No  
 Relinquished By: (signature) Mitch J. Ott Date: 10:30 6/26/17 Time: 10:30  
 Received By: (signature) \_\_\_\_\_ Date: 6/27/17 Time: 8:00

# Synergy Environmental Lab, INC.

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

TRENTON OTT  
FEC, INC.  
6637 N. SIDNEY PLACE  
MILWAUKEE, WI 53209

Report Date 06-Jul-17

Project Name R&R EXCAVATING  
Project # 041013

Invoice # E33172

Lab Code 5033172A  
Sample ID SW  
Sample Matrix Water  
Sample Date 6/22/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	< 0.7	ug/L	0.7	2.3	1	7060A	6/28/2017	6/29/2017	CWT	1
Lead, Dissolved	< 0.9	ug/L	0.9	3	1	7421	6/30/2017	6/29/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.016	ug/l	0.016	0.05	1	M8270C	6/29/2017	6/29/2017	NJC	1
Acenaphthylene	< 0.019	ug/l	0.019	0.061	1	M8270C	6/29/2017	6/29/2017	NJC	1
Anthracene	< 0.019	ug/l	0.019	0.062	1	M8270C	6/29/2017	6/29/2017	NJC	1
Benzo(a)anthracene	0.0187 "J"	ug/l	0.017	0.054	1	M8270C	6/29/2017	6/29/2017	NJC	1
Benzo(a)pyrene	< 0.02	ug/l	0.02	0.065	1	M8270C	6/29/2017	6/29/2017	NJC	1
Benzo(b)fluoranthene	< 0.018	ug/l	0.018	0.058	1	M8270C	6/29/2017	6/29/2017	NJC	1
Benzo(g,h,i)perylene	< 0.025	ug/l	0.025	0.081	1	M8270C	6/29/2017	6/29/2017	NJC	1
Benzo(k)fluoranthene	0.0168 "J"	ug/l	0.016	0.05	1	M8270C	6/29/2017	6/29/2017	NJC	1
Chrysene	< 0.02	ug/l	0.02	0.065	1	M8270C	6/29/2017	6/29/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.078	1	M8270C	6/29/2017	6/29/2017	NJC	1
Fluoranthene	< 0.017	ug/l	0.017	0.053	1	M8270C	6/29/2017	6/29/2017	NJC	1
Fluorene	< 0.021	ug/l	0.021	0.066	1	M8270C	6/29/2017	6/29/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.023	ug/l	0.023	0.074	1	M8270C	6/29/2017	6/29/2017	NJC	1
1-Methyl naphthalene	< 0.024	ug/l	0.024	0.076	1	M8270C	6/29/2017	6/29/2017	NJC	1
2-Methyl naphthalene	< 0.024	ug/l	0.024	0.075	1	M8270C	6/29/2017	6/29/2017	NJC	1
Naphthalene	< 0.025	ug/l	0.025	0.081	1	M8270C	6/29/2017	6/29/2017	NJC	1
Phenanthrene	< 0.025	ug/l	0.025	0.081	1	M8270C	6/29/2017	6/29/2017	NJC	1
Pyrene	< 0.02	ug/l	0.02	0.063	1	M8270C	6/29/2017	6/29/2017	NJC	1
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B	6/29/2017	6/29/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B	6/29/2017	6/29/2017	CJR	1
Bromodichloromethane	0.49 "J"	ug/l	0.31	1	1	8260B	6/29/2017	6/29/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B	6/29/2017	6/29/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B	6/29/2017	6/29/2017	CJR	1

Project Name R&R EXCAVATING  
 Project # 041013

Invoice # E33172

Lab Code 5033172A  
 Sample ID SW  
 Sample Matrix Water  
 Sample Date 6/22/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B	6/29/2017	6/29/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B	6/29/2017	6/29/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B	6/29/2017	6/29/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B	6/29/2017	6/29/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B	6/29/2017	6/29/2017	CJR	1
Chloroform	0.98 "J"	ug/l	0.96	3.04	1	8260B	6/29/2017	6/29/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B	6/29/2017	6/29/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B	6/29/2017	6/29/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B	6/29/2017	6/29/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B	6/29/2017	6/29/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B	6/29/2017	6/29/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B	6/29/2017	6/29/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B	6/29/2017	6/29/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B	6/29/2017	6/29/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B	6/29/2017	6/29/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B	6/29/2017	6/29/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B	6/29/2017	6/29/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B	6/29/2017	6/29/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B	6/29/2017	6/29/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B	6/29/2017	6/29/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B	6/29/2017	6/29/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B	6/29/2017	6/29/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B	6/29/2017	6/29/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B	6/29/2017	6/29/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B	6/29/2017	6/29/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B	6/29/2017	6/29/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B	6/29/2017	6/29/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B	6/29/2017	6/29/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B	6/29/2017	6/29/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B	6/29/2017	6/29/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B	6/29/2017	6/29/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B	6/29/2017	6/29/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B	6/29/2017	6/29/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B	6/29/2017	6/29/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B	6/29/2017	6/29/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B	6/29/2017	6/29/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B	6/29/2017	6/29/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B	6/29/2017	6/29/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B	6/29/2017	6/29/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B	6/29/2017	6/29/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B	6/29/2017	6/29/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B	6/29/2017	6/29/2017	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B	6/29/2017	6/29/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B	6/29/2017	6/29/2017	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B	6/29/2017	6/29/2017	CJR	1

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

**Invoice #** E33172

**Lab Code** 5033172A  
**Sample ID** SW  
**Sample Matrix** Water  
**Sample Date** 6/22/2017

	<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>
SUR - Toluene-d8	101	REC %			1	8260B		6/29/2017	CJR	1

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

**Invoice #** E33172

**Lab Code** 5033172B  
**Sample ID** MW-1  
**Sample Matrix** Water  
**Sample Date** 6/22/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	< 0.7	ug/L	0.7	2.3	1	7060A		6/28/2017	CWT	1
Lead, Dissolved	< 0.9	ug/L	0.9	3	1	7421		6/30/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.016	ug/l	0.016	0.05	1	M8270C	6/29/2017	6/29/2017	NJC	1
Acenaphthylene	0.033 "J"	ug/l	0.019	0.061	1	M8270C	6/29/2017	6/29/2017	NJC	1
Anthracene	< 0.019	ug/l	0.019	0.062	1	M8270C	6/29/2017	6/29/2017	NJC	1
Benzo(a)anthracene	< 0.017	ug/l	0.017	0.054	1	M8270C	6/29/2017	6/29/2017	NJC	1
Benzo(a)pyrene	< 0.02	ug/l	0.02	0.065	1	M8270C	6/29/2017	6/29/2017	NJC	1
Benzo(b)fluoranthene	< 0.018	ug/l	0.018	0.058	1	M8270C	6/29/2017	6/29/2017	NJC	1
Benzo(g,h,i)perylene	< 0.025	ug/l	0.025	0.081	1	M8270C	6/29/2017	6/29/2017	NJC	1
Benzo(k)fluoranthene	< 0.016	ug/l	0.016	0.05	1	M8270C	6/29/2017	6/29/2017	NJC	1
Chrysene	< 0.02	ug/l	0.02	0.065	1	M8270C	6/29/2017	6/29/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.078	1	M8270C	6/29/2017	6/29/2017	NJC	1
Fluoranthene	< 0.017	ug/l	0.017	0.053	1	M8270C	6/29/2017	6/29/2017	NJC	1
Fluorene	< 0.021	ug/l	0.021	0.066	1	M8270C	6/29/2017	6/29/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.023	ug/l	0.023	0.074	1	M8270C	6/29/2017	6/29/2017	NJC	1
1-Methyl naphthalene	< 0.024	ug/l	0.024	0.076	1	M8270C	6/29/2017	6/29/2017	NJC	1
2-Methyl naphthalene	0.0248 "J"	ug/l	0.024	0.075	1	M8270C	6/29/2017	6/29/2017	NJC	1
Naphthalene	0.062 "J"	ug/l	0.025	0.081	1	M8270C	6/29/2017	6/29/2017	NJC	1
Phenanthrene	< 0.025	ug/l	0.025	0.081	1	M8270C	6/29/2017	6/29/2017	NJC	1
Pyrene	< 0.02	ug/l	0.02	0.063	1	M8270C	6/29/2017	6/29/2017	NJC	1
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		6/29/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		6/29/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		6/29/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		6/29/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		6/29/2017	CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		6/29/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		6/29/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		6/29/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		6/29/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		6/29/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		6/29/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		6/29/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		6/29/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		6/29/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		6/29/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		6/29/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		6/29/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		6/29/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		6/29/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		6/29/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		6/29/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		6/29/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		6/29/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		6/29/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		6/29/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		6/29/2017	CJR	1

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

**Invoice #** E33172

**Lab Code** 5033172B  
**Sample ID** MW-1  
**Sample Matrix** Water  
**Sample Date** 6/22/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B	6/29/2017	6/29/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B	6/29/2017	6/29/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B	6/29/2017	6/29/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B	6/29/2017	6/29/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B	6/29/2017	6/29/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B	6/29/2017	6/29/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B	6/29/2017	6/29/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B	6/29/2017	6/29/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B	6/29/2017	6/29/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B	6/29/2017	6/29/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B	6/29/2017	6/29/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B	6/29/2017	6/29/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B	6/29/2017	6/29/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B	6/29/2017	6/29/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B	6/29/2017	6/29/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B	6/29/2017	6/29/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B	6/29/2017	6/29/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B	6/29/2017	6/29/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B	6/29/2017	6/29/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B	6/29/2017	6/29/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B	6/29/2017	6/29/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B	6/29/2017	6/29/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B	6/29/2017	6/29/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B	6/29/2017	6/29/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B	6/29/2017	6/29/2017	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B	6/29/2017	6/29/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B	6/29/2017	6/29/2017	CJR	1
SUR - 4-Bromofluorobenzene	94	REC %			1	8260B	6/29/2017	6/29/2017	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B	6/29/2017	6/29/2017	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**



**CHAIN OF CUSTODY RECORD**

**Synergy**

**Environmental Lab, Inc.**

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

Chain # **N2 3199**

Page \_\_\_ of \_\_\_

**Sample Handling Request**

Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)  
Normal Turn Around \_\_\_\_\_

Lab I.D. # \_\_\_\_\_ Quote No.: \_\_\_\_\_  
 Account No.: **041013**  
 Project #: **RWF**  
 Sampler: (signature) **RWF**  
 Project (Name / Location): **R: R Excavating site**  
 Reports To: **Ruff**  
 Company: **FEC**  
 Address: \_\_\_\_\_  
 City State Zip: \_\_\_\_\_  
 Phone: **270-9015**  
 FAX: \_\_\_\_\_

Invoice To: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City State Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 FAX: \_\_\_\_\_

*Grand*

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID	Other Analysis
<b>50337801</b>	<b>NW-1</b>	<b>10/20/17</b>	<b>AM</b>		<b>X</b>	<b>Y</b>		<b>GW</b>	<b>Ice, (Hubs)</b>			<b>X</b>			<b>X</b>						<b>X</b>	<b>X</b>			
<b>50337801</b>	<b>SW</b>	<b>10/20/17</b>	<b>AM</b>		<b>X</b>	<b>Y</b>		<b>SW</b>				<b>X</b>			<b>X</b>						<b>X</b>	<b>X</b>			

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

*Fullend for metals*

Sample Integrity - To be completed by receiving lab.  
 Method of Shipment: **GC** °C On Ice: **X**  
 Temp. of Temp. Blank: \_\_\_\_\_ °C Yes **X** No  
 Cooler seal intact upon receipt: **X** Yes No

Relinquished By: (sign) *Ruff* Date **10/24/17** Time \_\_\_\_\_  
 Received in Laboratory By: *Ch...* Date: **10/25/17** Time: **8:00**



# 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 02-Nov-17

Project Name R&R EXCAVATING SITE  
Project # 041013

Invoice # E33780

Lab Code 5033780A  
Sample ID MW-1  
Sample Matrix Water  
Sample Date 10/20/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	1.3 "J"	ug/L	0.7	2.3	1	7060A	10/25/2017	10/31/2017	CWT	1
Lead, Dissolved	< 0.9	ug/L	0.9	3	1	7421	10/27/2017	10/31/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.016	ug/l	0.016	0.05	1	M8270C	10/27/2017	10/31/2017	NJC	1
Acenaphthylene	0.033 "J"	ug/l	0.019	0.061	1	M8270C	10/27/2017	10/31/2017	NJC	1
Anthracene	< 0.019	ug/l	0.019	0.062	1	M8270C	10/27/2017	10/31/2017	NJC	1
Benzo(a)anthracene	< 0.017	ug/l	0.017	0.054	1	M8270C	10/27/2017	10/31/2017	NJC	1
Benzo(a)pyrene	< 0.02	ug/l	0.02	0.065	1	M8270C	10/27/2017	10/31/2017	NJC	1
Benzo(b)fluoranthene	< 0.018	ug/l	0.018	0.058	1	M8270C	10/27/2017	10/31/2017	NJC	1
Benzo(g,h,i)perylene	< 0.025	ug/l	0.025	0.081	1	M8270C	10/27/2017	10/31/2017	NJC	1
Benzo(k)fluoranthene	< 0.016	ug/l	0.016	0.05	1	M8270C	10/27/2017	10/31/2017	NJC	1
Chrysene	< 0.02	ug/l	0.02	0.065	1	M8270C	10/27/2017	10/31/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.078	1	M8270C	10/27/2017	10/31/2017	NJC	1
Fluoranthene	< 0.017	ug/l	0.017	0.053	1	M8270C	10/27/2017	10/31/2017	NJC	1
Fluorene	< 0.021	ug/l	0.021	0.066	1	M8270C	10/27/2017	10/31/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.023	ug/l	0.023	0.074	1	M8270C	10/27/2017	10/31/2017	NJC	1
1-Methyl naphthalene	< 0.024	ug/l	0.024	0.076	1	M8270C	10/27/2017	10/31/2017	NJC	1
2-Methyl naphthalene	< 0.024	ug/l	0.024	0.075	1	M8270C	10/27/2017	10/31/2017	NJC	1
Naphthalene	0.043 "J"	ug/l	0.025	0.081	1	M8270C	10/27/2017	10/31/2017	NJC	1
Phenanthrene	< 0.025	ug/l	0.025	0.081	1	M8270C	10/27/2017	10/31/2017	NJC	1
Pyrene	< 0.02	ug/l	0.02	0.063	1	M8270C	10/27/2017	10/31/2017	NJC	1
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B	10/27/2017	10/31/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B	10/27/2017	10/31/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B	10/27/2017	10/31/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B	10/27/2017	10/31/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B	10/27/2017	10/31/2017	CJR	1

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

**Invoice #** E33780

**Lab Code** 5033780A  
**Sample ID** MW-1  
**Sample Matrix** Water  
**Sample Date** 10/20/2017

	<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>
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		10/27/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		10/27/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		10/27/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		10/27/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		10/27/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		10/27/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		10/27/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		10/27/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		10/27/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		10/27/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		10/27/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		10/27/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		10/27/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		10/27/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		10/27/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		10/27/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		10/27/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		10/27/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		10/27/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		10/27/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		10/27/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		10/27/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		10/27/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		10/27/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		10/27/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/27/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		10/27/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		10/27/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		10/27/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		10/27/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		10/27/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		10/27/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		10/27/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		10/27/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		10/27/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		10/27/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		10/27/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		10/27/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		10/27/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		10/27/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		10/27/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		10/27/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		10/27/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		10/27/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		10/27/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		10/27/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		10/27/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		10/27/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		10/27/2017	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		10/27/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		10/27/2017	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		10/27/2017	CJR	1

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

**Invoice #** E33780

**Lab Code** 5033780A  
**Sample ID** MW-1  
**Sample Matrix** Water  
**Sample Date** 10/20/2017

	<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>
SUR - Toluene-d8	102	REC %			1	8260B		10/27/2017	CJR	1

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

**Invoice #** E33780

**Lab Code** 5033780B  
**Sample ID** SW  
**Sample Matrix** Water  
**Sample Date** 10/20/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	0.8 "J"	ug/L	0.7	2.3	1	7060A		10/25/2017	CWT	1
Lead, Dissolved	< 0.9	ug/L	0.9	3	1	7421		10/27/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.016	ug/l	0.016	0.05	1	M8270C	10/27/2017	10/31/2017	NJC	1
Acenaphthylene	< 0.019	ug/l	0.019	0.061	1	M8270C	10/27/2017	10/31/2017	NJC	1
Anthracene	< 0.019	ug/l	0.019	0.062	1	M8270C	10/27/2017	10/31/2017	NJC	1
Benzo(a)anthracene	< 0.017	ug/l	0.017	0.054	1	M8270C	10/27/2017	10/31/2017	NJC	1
Benzo(a)pyrene	< 0.02	ug/l	0.02	0.065	1	M8270C	10/27/2017	10/31/2017	NJC	1
Benzo(b)fluoranthene	< 0.018	ug/l	0.018	0.058	1	M8270C	10/27/2017	10/31/2017	NJC	1
Benzo(g,h,i)perylene	< 0.025	ug/l	0.025	0.081	1	M8270C	10/27/2017	10/31/2017	NJC	1
Benzo(k)fluoranthene	< 0.016	ug/l	0.016	0.05	1	M8270C	10/27/2017	10/31/2017	NJC	1
Chrysene	< 0.02	ug/l	0.02	0.065	1	M8270C	10/27/2017	10/31/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.078	1	M8270C	10/27/2017	10/31/2017	NJC	1
Fluoranthene	< 0.017	ug/l	0.017	0.053	1	M8270C	10/27/2017	10/31/2017	NJC	1
Fluorene	< 0.021	ug/l	0.021	0.066	1	M8270C	10/27/2017	10/31/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.023	ug/l	0.023	0.074	1	M8270C	10/27/2017	10/31/2017	NJC	1
1-Methyl naphthalene	< 0.024	ug/l	0.024	0.076	1	M8270C	10/27/2017	10/31/2017	NJC	1
2-Methyl naphthalene	< 0.024	ug/l	0.024	0.075	1	M8270C	10/27/2017	10/31/2017	NJC	1
Naphthalene	0.038 "J"	ug/l	0.025	0.081	1	M8270C	10/27/2017	10/31/2017	NJC	1
Phenanthrene	0.0316 "J"	ug/l	0.025	0.081	1	M8270C	10/27/2017	10/31/2017	NJC	1
Pyrene	< 0.02	ug/l	0.02	0.063	1	M8270C	10/27/2017	10/31/2017	NJC	1
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		10/27/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		10/27/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		10/27/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		10/27/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		10/27/2017	CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		10/27/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		10/27/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		10/27/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		10/27/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		10/27/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		10/27/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		10/27/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		10/27/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		10/27/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		10/27/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		10/27/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		10/27/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		10/27/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		10/27/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		10/27/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		10/27/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		10/27/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		10/27/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		10/27/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		10/27/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		10/27/2017	CJR	1

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

**Invoice #** E33780

**Lab Code** 5033780B  
**Sample ID** SW  
**Sample Matrix** Water  
**Sample Date** 10/20/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B	10/27/2017	10/27/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B	10/27/2017	10/27/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B	10/27/2017	10/27/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B	10/27/2017	10/27/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B	10/27/2017	10/27/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B	10/27/2017	10/27/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B	10/27/2017	10/27/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B	10/27/2017	10/27/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B	10/27/2017	10/27/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B	10/27/2017	10/27/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B	10/27/2017	10/27/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B	10/27/2017	10/27/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B	10/27/2017	10/27/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B	10/27/2017	10/27/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B	10/27/2017	10/27/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B	10/27/2017	10/27/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B	10/27/2017	10/27/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B	10/27/2017	10/27/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B	10/27/2017	10/27/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B	10/27/2017	10/27/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B	10/27/2017	10/27/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B	10/27/2017	10/27/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B	10/27/2017	10/27/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B	10/27/2017	10/27/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B	10/27/2017	10/27/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B	10/27/2017	10/27/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B	10/27/2017	10/27/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B	10/27/2017	10/27/2017	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B	10/27/2017	10/27/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B	10/27/2017	10/27/2017	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B	10/27/2017	10/27/2017	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B	10/27/2017	10/27/2017	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**

