

Technical Memorandum

To Ms. Kathleen M. McDaniel, City of Manitowoc
Mr. Dan Koski, City of Manitowoc Page 1 of 4

CC Mr. Tauren Beggs, WDNR

Subject Former Town of Newton Gravel Pit, BRRTS No. 02-36-000268
2015 Task 31; Groundwater Treatment Area Feasibility Study Technical
Memorandum

From Jeffrey Maletzke, AECOM
Dave Henderson, AECOM

Date April 4, 2016

An engineered pond is being considered as an in-situ groundwater remedial alternative at the Former Newton Gravel Pit site, Manitowoc Wisconsin. The location for the proposed pond is immediately down gradient of the Western Source Area, within the mined area of the gravel pit (i.e. the groundwater treatment area).

The purpose of the technical memorandum is to document the results of the feasibility study as indicators for the effectiveness of a pond in reducing the mass of volatile organic contaminants in groundwater prior to the contaminated groundwater traveling down gradient. The delineation of impacted groundwater and completion of the feasibility study included the following:

- Review specific chemical characteristics of the contaminants of concern (COCs) for applicability of volatilization from groundwater.
- Review of historic groundwater data.
- Characterization of soils within the proposed pond footprint from borings completed for the installation of additional groundwater monitoring wells and temporary piezometers.
- Installation and development of three new 2-inch diameter monitoring wells (P-1, P-12, and P-13) and eleven 1-inch diameter temporary monitoring wells (P-2 through P-11 and P-2R).
- Measurement of groundwater levels.
- Completion of in-situ hydraulic conductivity tests at newly installed monitoring well P-1 and integration of results with former hydraulic conductivity data.
- Sampling the three new monitoring wells and 11 temporary monitoring wells for analysis of volatile organic compounds (VOCs) (EPA Method SW 8260B).

Initial Review

To determine if volatilization of VOCs from groundwater would be an appropriate remedial technology, AECOM researched and reviewed the Henry's Law constant, vapor pressure, solubility, and half-life for the COCs.

The Henry's Law constant is an indicator of a compound's volatility once it is dissolved in water. Chemicals with a Henry's Law constant greater than 0.00001 (atm-m³/mole) typically volatilize significantly from groundwater.

Vapor pressure is a parameter that estimates a compound's tendency to volatilize from its liquid state. Chemicals with vapor pressures greater than 0.5 to 1.0 mmHg are expected to respond favorably to volatilization.

Solubility is the maximum concentration of a compound that will dissolve in water. In general compounds between 0.001 to 100 g/L are considered soluble.

Half-life is the amount of time required for a compound to be half of its original concentration during volatilization from a typical surface water body.

The Henry's Law constants, vapor pressures, solubility's, and half-lives for the COCs are summarized below.

Contaminant of Concern	Henry's Law Constant (atm-m ³ /mole)	Vapor Pressure (mmHg)	Solubility (g/L at 30 C)	Half-life (hours)
Benzene	0.0053 ^A	100 ^A	1.8 ^A	2.7 ^C
1,1-Dichloroethane	0.00561 ^B	228 ^B	*	*
1,1-Dichloroethene	0.0261 ^B	591 ^A	2.5 ^A	*
Cis-1,2-Dichloroethene	0.00337 ^A	273 ^A	3.5 ^A	96 ^D
Trans-1,2-Dichloroethene	0.00672 ^A	395 ^A	6.3 ^A	*
Tetrachloroethene	0.0184 ^B	18.4 ^B	*	*
Toluene	0.00663 ^B	36.7 ^A	0.515 ^C	2.9 ^C
Trichloroethene (TCE)	0.01 ^A	57.8 ^A	1.0 ^A	3.4 ^C
Vinyl Chloride	0.0560 ^A	2600 ^A	2.7 ^A	2.5 ^C

* no published data identified.

These data indicate that the COCs found within the groundwater down gradient from the Western Source area may volatilize well from treatment in a pond. Based on this information, AECOM proceeded with delineation of the impacted groundwater in the proposed pond area.

AECOM also reviewed historical analytical data to optimize the locations of additional borings and monitoring wells within the potential pond footprint. Five wells (P-1 through P-3, P-12, and P-13) were targeted for the middle of the plume to determine the vertical extent of contaminated groundwater and corresponding depth of the pond. Eight wells (P-4 through P-11) were targeted for the estimated horizontal limits of the plume to assist in determining the size of the pond (Figure 1).

Boring and Well Completion

Borehole drilling and well installation was conducted consistent with standard field methodologies and Wisconsin Administrative Code (WAC) Chapter NR 141 requirements. Soil boring logs (WDNR

^A National Primary Drinking Water Regulations. Environmental Protection Agency. <http://water.epa.gov/drink/contaminants/index.cfm> (accessed Oct. 6, 2015)

^B Correcting the Henry's Law Constant for Soil Temperature. Environmental Protection Agency. <http://www.epa.gov/oswer/riskassessment/airmodel/pdf/factsheet.pdf> (accessed Oct. 6, 2015).

^C Lyman, Warren J., William F. Reehl, and David H. Rosenblatt. *Handbook of Chemical Property Estimation Methods*. Washington, DC: American Chemical Society, 1990.

Form 4400-122) and monitoring well construction forms (WDNR Form 4400-113A) are provided in Attachment A.

Soil borings for monitoring wells P-1 through P-11 were completed on August 25, 2015. The soil boring for monitoring well P-1 was drilled without sampling using a Geoprobe® rig with 4-1/4-inch diameter hollow stem augers. Soil borings for temporary monitoring wells P-2 through P-11 were completed with a Geoprobe® rig and dual tube sampling system. Soil borings for monitoring wells P-12 and P-13, as well as a replacement temporary monitoring well for P-2 (P-2R) were similarly completed on March 16, 2016.

Monitoring wells P-1, P-12, and P-13 were constructed of 2-inch (I.D.), flush-threaded 0.010-inch slot, Schedule 40 PVC screen with Schedule 40 PVC riser. Temporary monitoring wells P-2 through P-11, and P-2A were similarly constructed of 1-inch (I.D.) PVC screen and riser. Well construction documentation is provide on the attached construction forms. Following well installation, each of the wells was developed and/or purged prior to sampling.

In-situ Hydraulic Conductivity Testing (Slug Tests)

Rising head slug tests were performed at monitoring well P-1 on August 26, 2015, to determine the in-situ hydraulic conductivity of the formation in the vicinity of the well screen interval. A discussion of the methodology is presented in AECOM's 2015 Groundwater Monitoring Letter Report¹.

Groundwater Sampling

Following the collection of water level elevations, samples were collected from each of the newly installed monitoring wells. The wells were purged until a minimum of three well volumes were removed and samples were submitted to a WAC Chapter NR 149 certified laboratory (Synergy Environmental Lab, Inc., Appleton, Wisconsin) for analyses of VOCs (EPA Method SW 8260B).

Soil and Groundwater Conditions

Soil:

Soils encountered during drilling generally included well to poorly graded sands (SW or SP) with some gravel to the depth of the investigated interval. The drillers noted heaving/flowing sands five feet below the saturated zone (approximately eight feet below ground surface - bgs). In boring P-12 there was a four foot clay/silty clay layer at approximately 40 feet bgs. This layer appears to be discontinuous.

Groundwater:

Groundwater was encountered between two and nine feet bgs with the depth to water on the southern edge of the plume 6 to 9 feet bgs, while the wells located in the center and the north end of the plume had depths to water of 3 to 4.5 feet bgs. Groundwater has been previously identified as generally flowing to the southeast.

Groundwater levels for monitoring wells P-1 through P-11 were measured on August 26, September 15, September 24, and October 19, 2015 and again on March 22, 2016. Groundwater levels for monitoring wells P-2A, P-12, and P-13 were measured on March 22, 2016. Water elevation data is summarized on Table 1, attached.

¹ 2015 Groundwater Monitoring Letter Report, Former Town of Newton Gravel Pit, 3130 Hecker Road, Manitowoc Wisconsin. AECOM, dated March 26, 2016.

The vertical hydraulic gradients calculated from water levels measured on March 22, 2016 at the P-1 well nest are predominantly low downward, ranging between approximately 0.008 and 0.023 feet/foot. A very slight (essentially negligible) upward gradient of 0.0005 feet/foot was calculated between P1 and P2.

Hydraulic Conductivity:

The hydraulic conductivity calculated from the August 2015 P-1 slug test data was 2.4×10^{-2} cm/sec. When combined with the historical hydraulic conductivity data, the geometric mean hydraulic conductivity is 3.9×10^{-3} cm/sec, which is representative for the outwash sandy & gravel aquifer in the groundwater treatment and western source area. This analysis is presented in AECOM's 2015 Groundwater Monitoring Letter Report (Ibid).

Groundwater Laboratory Analytical Results:

Groundwater analytical results were compared to applicable enforcement standards (ESs) and preventative action limits (PALs) found in WAC Chapter NR 140 Table 1 for Public Health Standards. The groundwater analytical results are summarized in Table 2 and shown on Figure 1 along with VOC isoconcentration lines and on a site cross-section drawing, Figure 2. Laboratory analytical reports are included as Attachment B.

With the exception of temporary monitoring wells P-2 and P-2R and monitoring wells P-12 and P-13, each of the wells had exceedances of compounds above the NR140 Preventive Action Limit (PAL) that are from the western source area. Concentrations at P-10 and P-11, the northern and southern most sample locations respectively, had the lowest concentrations, suggesting that they are near the edge of the groundwater plume (Figure 1). As shown on Figure 2, the vertical extent of the contaminant plume is defined by trichloroethene (TCE) and vinyl chloride concentrations at temporary monitoring well P-3 (approximately 30 feet bgs) above NR140 Enforcement Standards (ES) and a lack of VOC detections at monitoring wells P-12 and P-13, approximately 40 and 50 feet bgs, respectively.

Summary

These data indicate that the COCs found within the groundwater down gradient from the Western Source Area is anticipated to respond well to volatilization treatment in a pond. Based on the groundwater analytical results the width of the plume in the mined area immediately down gradient of the western source area is approximately 500 feet. This is consistent with data previously presented in annual groundwater monitoring reports. The depth of the plume in this area extends to approximately 30 feet below ground surface. Therefore, to the extent that a pond can be engineered to capture the vertical and horizontal extent of the plume, a pond would be a viable in-situ remedial option to treat the contamination plume prior to it traveling off site.

Attachments:

Figure 1, Site Layout and Interpreted VOC Isoconcentration Lines
Figure 2, Cross-section YY'

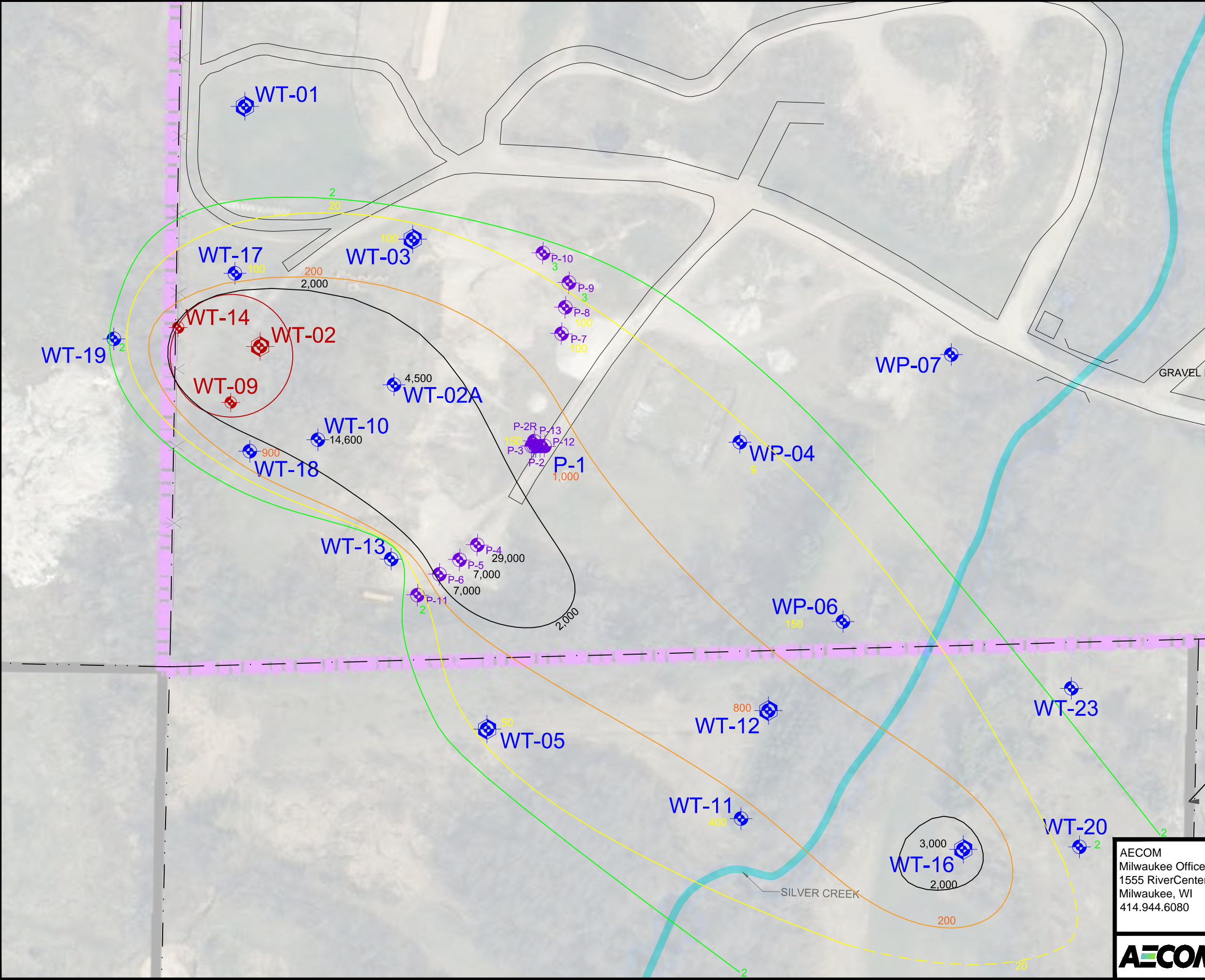
Table 1, Groundwater Elevation Measurements
Table 2, Detected VOCs

Attachment A, Boring Logs & Well Construction Logs
Attachment B, Analytical Laboratory Data

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- LEGEND:**
- PROPERTY BOUNDARY
 - - - - - PROPERTY BOUNDARY - CITY LIMITS
 - ROAD
 - ~ CREEK
 - WT-11 MONITORING WELL
RED = MEASURABLE FREE PRODUCT
 - WT-03 MONITORING WELL NEST
RED = MEASURABLE FREE PRODUCT
 - P-11 MONITORING WELL - POND

- NOTES:**
- GROUNDWATER MONITORING WELLS WT-02, WT-09 AND WT-14 WERE NOT SAMPLED DUE TO THE PRESENCE OF MEASURABLE PRODUCT.



PROPERTY / CITY LIMITS

PROPERTY LIMITS

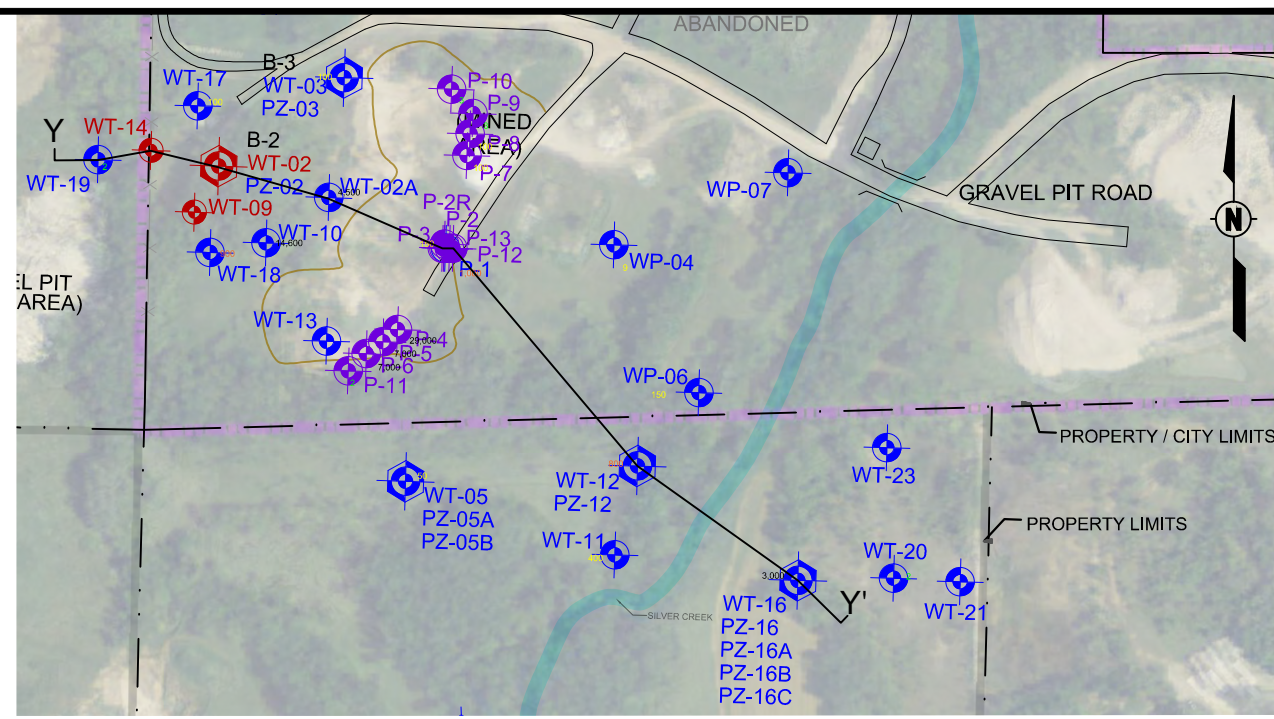
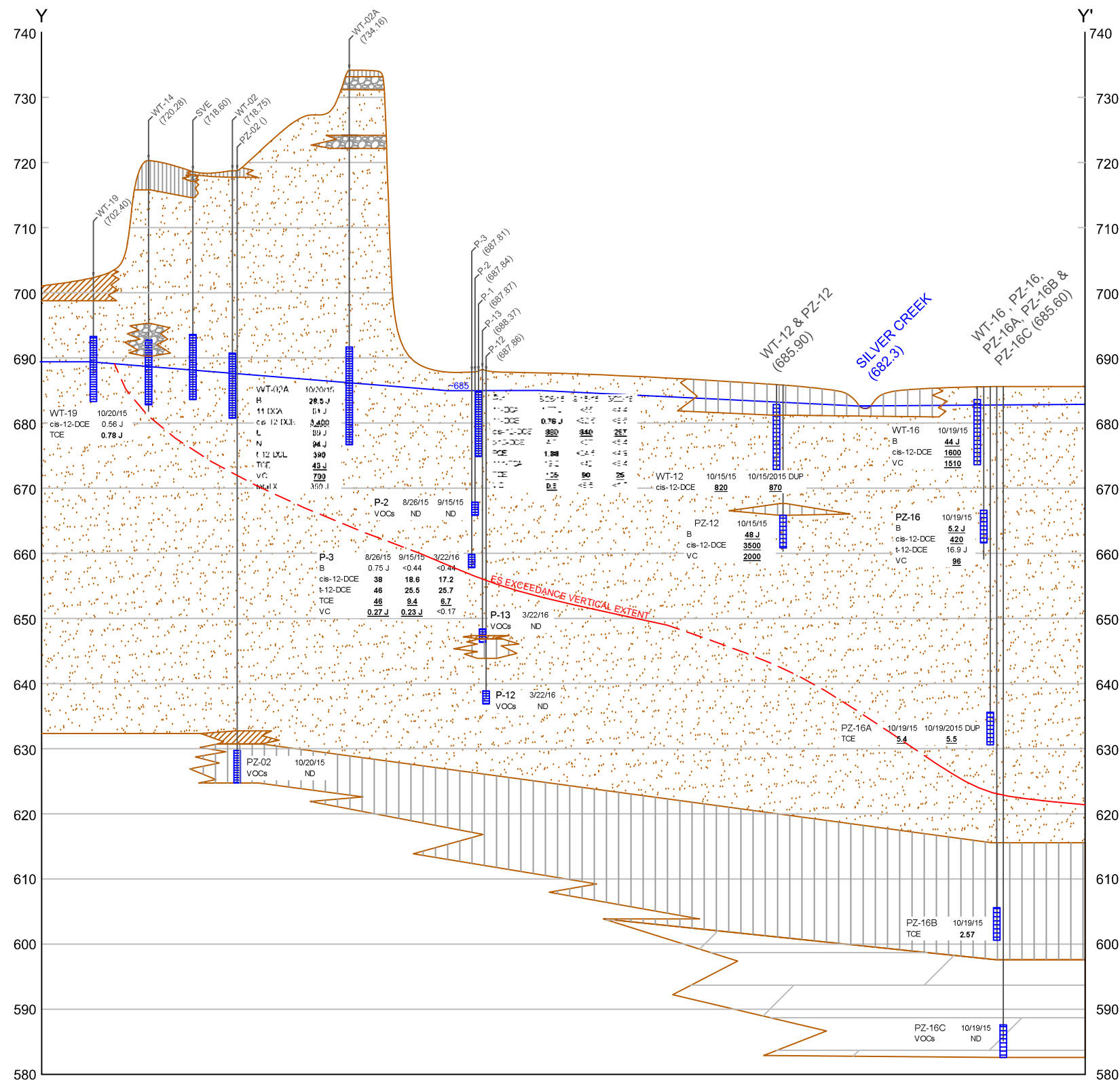
0' 60' 120' 240'

SCALE

AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	FORMER NEWTON GRAVEL PIT		
	SITE LAYOUT AND INTERPRETED VOC ISCONCENTRATION LINES (October 2015 through March 2016)		
Project Number: 60311767	Drawn By: SAE	Date: 4/1/2016	Figure No. 1



File: \\USM\MK\F5001\proj\Drawings\Library\work\2518\Caad\2016\2016 - Newton Gravel Pit.dwg, USER: ENGELHARDT, SARAH, PLOTTED: April 1, 2016 - 2:59 PM



LEGEND:

- GRAVEL
- SAND
- SILT
- CLAY
- BEDROCK (SILURIAN DOLOMITE)
- MONITORING WELL - SCREEN INTERVAL
- POTABLE WELL - CASING
- CASING DEPTH
- OPEN BOREHOLE DEPTH

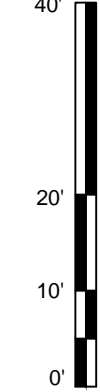
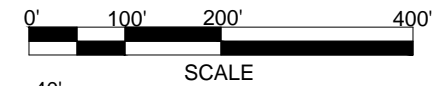
NOTES:

VOCs = VOLATILE ORGANIC COMPOUNDS
 MEASURED IN MICROGRAMS PER LITER (UG/L)

B = BENZENE
 C = CHLOROMETHANE
 11-DCA = 1,1-DICHLOROETHANE
 11-DCE = 1,1-DICHLOROETHENE
 cis-12-DCE = CIS-1,2-DICHLOROETHENE
 t-12-DCE = TRANS-1,2-DICHLOROETHENE
 E = ETHYLBENZENE
 N = NAPHTHALENE
 n-P = N-PROPYLBENZENE
 PCE = TETRACHLOROETHENE
 T = TOLUENE
 111-TCA = 1,1,1-TRICHLOROETHANE
 TCE = TRICHLOROETHENE
 VC = VINYL CHLORIDE
 total X = TOTAL XYLENES
 J = COMPOUND WAS DETECTED AT A CONCENTRATION BETWEEN THE LIMIT OF DETECTION AND THE LIMIT OF QUANTITATION

BOLD INDICATES A PREVENTIVE ACTION LIMIT (PAL) EXCEEDANCE
BOLD AND UNDERLINED INDICATES AN ENFORCEMENT STANDARD (ES) EXCEEDANCE

APPROXIMATE VERTICAL EXTENT OF ES IMPACTS IN GROUNDWATER



AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	FORMER NEWTON GRAVEL PIT	
	CROSS SECTION Y - Y'	
Project Number: 60311767	Drawn By: SAE	Date: 4/1/2016
		Figure No. 2

**TABLE 1
POND GROUNDWATER IMPACT DELINEATION FEASIBILITY STUDY
SUMMARY OF ELEVATIONS
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Well Identification	Ground Surface	TOC Elevation	Depth to (ft from TOC)	Depth to Groundwater		Groundwater Elevation	Screened Interval - ft BGS		Screened Interval - ftMSL		Date
				(ft. BGS)	(ft. from TOC)		Top	Bottom	Top	Bottom	
P-1	687.87	689.96	15.43	2.95	5.04	684.92	3.3	13.3	684.5	674.5	Installed 8/25/2015
			15.43	2.89	4.98	684.98	3.3	13.3	684.5	674.5	8/26/2015
			15.43	2.89	4.98	684.98	3.3	13.3	684.5	674.5	9/15/2015
			15.43	1.86	3.95	686.01	3.3	13.3	684.5	674.5	9/24/2015
			15.43	1.21	3.30	686.66	3.3	13.3	684.5	674.5	10/19/2015
P-2	687.84	689.79	23.02	2.92	4.9	684.89	19.1	21.1	668.8	666.8	Installed 8/25/2015
			23.02	2.84	4.82	684.97	19.1	21.1	668.8	666.8	8/26/2015
			23.02	2.84	4.82	684.97	19.1	21.1	668.8	666.8	9/15/2015
			23.02	2.78	4.76	685.03	19.1	21.1	668.8	666.8	9/24/2015
			23.02	1.14	3.12	686.67	19.1	21.1	668.8	666.8	10/19/2015
P-2R	687.74	689.76	23.02	2.78	4.76	685.03	19.0	21.0	668.8	666.8	Installed 3/16/2016
P-3	687.81	689.57	31.45	2.94	4.7	684.87	27.7	29.7	660.1	658.1	Installed 8/25/2015
			31.45	2.79	4.55	685.02	27.7	29.7	660.1	658.1	8/26/2015
			31.45	2.83	4.59	684.98	27.7	29.7	660.1	658.1	9/15/2015
			31.45	2.82	4.58	684.99	27.7	29.7	660.1	658.1	9/24/2015
			31.45	1.20	2.96	686.61	27.7	29.7	660.1	658.1	10/19/2015
P-4	690.80	692.66	16.63	5.96	7.82	684.84	4.8	14.8	686.0	676.0	Installed 8/25/2015
			16.63	5.94	7.8	684.86	4.8	14.8	686.0	676.0	8/26/2015
			16.63	5.89	7.75	684.91	4.8	14.8	686.0	676.0	9/15/2015
P-5	693.07	695.27	16.90	8.28	10.48	684.79	5.0	15.0	688.4	678.4	Installed 8/25/2015
			16.90	8.21	10.41	684.86	5.0	15.0	688.4	678.4	8/26/2015
			16.90	8.16	10.36	684.91	5.0	15.0	688.4	678.4	9/15/2015
P-6	693.73	695.65	17.90	8.98	10.9	684.75	6.0	16.0	687.8	677.8	Installed 8/25/2015
			17.90	8.93	10.85	684.80	6.0	16.0	687.8	677.8	8/26/2015
			17.90	8.84	10.76	684.89	6.0	16.0	687.8	677.8	9/15/2015
P-7	688.50	690.96	13.74	3.12	5.58	685.38	1.3	11.3	687.2	677.2	Installed 8/25/2015
			13.74	3.45	5.91	685.05	1.3	11.3	687.2	677.2	8/26/2015
			13.74	3.43	5.89	685.07	1.3	11.3	687.2	677.2	9/15/2015
P-8	688.10	690.43	15.00	3.07	5.4	685.03	2.7	12.7	685.4	675.4	Installed 8/25/2015
			15.00	3.05	5.38	685.05	2.7	12.7	685.4	675.4	8/26/2015
			15.00	3.02	5.35	685.08	2.7	12.7	685.4	675.4	9/15/2015
P-9	687.71	690.00	15.00	2.71	5	685.00	2.7	12.7	685.0	675.0	Installed 8/25/2015
			15.00	2.66	4.95	685.05	2.7	12.7	685.0	675.0	8/26/2015
			15.00	2.61	4.9	685.10	2.7	12.7	685.0	675.0	9/15/2015
P-10	689.44	692.03	15.00	4.36	6.95	685.08	4.7	14.7	687.0	677.0	Installed 8/25/2015
			15.00	4.28	6.87	685.16	4.7	14.7	687.0	677.0	8/26/2015
			15.00	4.02	6.61	685.42	4.7	14.7	687.0	677.0	9/15/2015
P-11	693.54	696.99	19.74	8.95	12.4	684.59	6.3	16.3	687.3	677.3	Installed 8/25/2015
			19.74	8.89	12.34	684.65	6.3	16.3	687.3	677.3	8/26/2015
			19.74	8.83	12.28	684.71	6.3	16.3	687.3	677.3	9/15/2015
P-12	687.86	689.65	52.73	2.53	4.32	685.33	48.9	50.9	638.9	636.9	Installed 3/16/2016
P-13	688.37	689.92	44.24	2.67	4.22	685.70	40.7	42.7	647.7	645.7	Installed 3/16/2016

Notes:
BGS = Below Ground Surface
TOC = Top of Casing
--- or NM = Not Measured

**SUMMARY OF CONTAMINATES DETECTED IN THE POND GROUNDWATER IMPACT DELINEATION FEASIBILITY STUDY
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	P-1				P-2				P-2R	P-3		
			8/26/15	9/15/2015 (DUP)	9/15/15	3/22/16	8/26/15	9/15/15	9/15/2015 (DUP)	3/22/16	3/22/16	8/26/15	9/15/15	3/22/16
Volatile Organic Compounds (VOCs) (µg/L):														
Benzene	5	0.5	< 0.44	< 0.44	< 22	< 4.4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	<u>0.75</u> J	< 0.44	< 0.44
Chloroform	6	0.6	< 0.43	0.51 J	< 21.5	< 4.3	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
1,1-Dichloroethane	850	85	1.77 J	2.46 J	< 55	< 11	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
1,1-Dichloroethene	7	0.7	<u>0.76</u> J	<u>1.03</u> J	< 32.5	< 6.5	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65
cis-1,2-Dichloroethene	70	7	880	920	840	287	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	<u>38</u>	<u>18.6</u>	<u>17.2</u>
trans-1,2-Dichloroethene	100	20	4.7	3.6	< 27	< 5.4	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	<u>46</u>	<u>25.5</u>	<u>25.7</u>
Tetrachloroethene	5	0.5	<u>1.88</u>	<u>1.93</u>	< 24.5	< 4.9	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
Toluene	800	160	< 0.44	< 0.44	< 22	< 4.4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Trichloroethene (TCE)	5	0.5	105	106	90	25	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	46	9.4
Vinyl Chloride	0.2	0.02	0.6	0.75	< 8.5	< 1.7	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	0.27 J	0.23 J	< 0.17

**SUMMARY OF CONTAMINATES DETECTED IN THE POND GROUNDWATER IMPACT DELINEATION FEASIBILITY STUDY
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	P-4 8/26/15	P-5 8/26/15	P-6 8/26/15	P-7 8/26/15	P-8 8/26/15	P-9 8/26/15	P-10 8/26/15	P-11 8/26/15	P-12 3/22/16	P-13 3/22/16
Volatile Organic Compounds (VOCs) (µg/L):												
Benzene	5	0.5	< 220	78 J	75 J	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Chloroform	6	0.6	< 215	< 43	< 43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
1,1-Dichloroethane	850	85	< 550	< 110	< 110	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
1,1-Dichloroethene	7	0.7	< 325	< 65	< 65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65
cis-1,2-Dichloroethene	70	7	24000	3000	3900	63	35	< 0.45	< 0.45	1.75	< 0.45	< 0.45
trans-1,2-Dichloroethene	100	20	< 270	< 54	< 54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Tetrachloroethene	5	0.5	< 245	< 49	< 49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
Toluene	800	160	240 J	168	71	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Trichloroethene (TCE)	5	0.5	< 235	< 47	< 47	25	44	2.64	2.82	< 0.47	< 0.47	< 0.47
Vinyl Chloride	0.2	0.02	4900	< 4000	3120	< 0.17	< 0.17	< 0.17	< 0.17	0.24 J	< 0.17	< 0.17

Attachment A
Boring Logs & Well Construction Logs

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Newton Gravel Pit			License/Permit/Monitoring Number			Boring Number P-1					
Boring Drilled By: Name of crew chief (first, last) and Firm Fist Name: Adam Last Name: Sweet Firm: Horizon Construction & Excavation			Date Drilling Started MM/DD/YY 8 25 15		Date Drilling Completed MM/DD/YY 8 25 15		Drilling Method HSA				
WI Unique Well No. VO297		DNR Well ID No.		Well Name P-1		Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 8.25 inches	
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			State Plane N, E S/C/N			Lat			Local Grid Location (if applicable)		
1/4 of 1/4 of Section T N, R E/W			Long			Feet S			Feet E W		
Facility ID		County MANITOWOC		County Code 36		Civil Town/City/or Village NEWTON					

Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1.0	Blind Drilled to 13 feet, set 2" well, screened 3-13'										
			2.0											
			3.0											
			4.0											
			5.0											
			6.0											
			7.0											
			8.0											
			9.0											
			10.0											
			11.0											
			13.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Firm: **AECOM**
11425 W. Lake Park Drive, Milwaukee, WI 53224

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit			License/Permit/Monitoring Number			Boring Number P-2		
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Adam Last Name: Sweet			Date Drilling Started 08 25 15 MM/ DD/ YY			Date Drilling Completed 08 25 15 MM/ DD/ YY		
Firm: Horizon Construction & Excavation			Final Static Water Level Feet MSL			Surface Elevation Feet MSL		
WI Unique Well No.		DNR Well ID No.		Well Name P-2		Borehole Diameter 3.25 inches		
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			State Plane N, E S/C/N			Local Grid Location (if applicable) N, E S, W		
1/4 of 1/4 of Section T N, R E/W			Lat ° * *			Long ° * *		
Facility ID		County Monitowoc		County Code 36		City NEWTON		

Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1.0	See log for P-2 Blind drilled to 22 feet. Set well 20 to 22 feet										
			2.0											
			3.0											
			4.0											
			5.0											
			6.0											
			7.0											
			8.0											
			9.0											
			10.0											
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *John J. [Signature]* Firm: **AECOM**
11425 W. Lake Park Drive, Milwaukee, WI 53224

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Route to Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name NEWTON GRAVEL PIT		License/Permit/Monitoring Number		Boring Number P-2R
Boring Drilled By: Name of crew chief (first, last) and Firm Fist Name DAN Last Name: FISHER Firm: HORIZON CONSTRUCTION & EXPLORATION		Date Drilling Started 03/16/2016 MM/ DD/ YY	Date Drilling Completed 03/16/2016 MM/ DD/ YY	Drilling Method 3 1/4-inch OD DUAL TUBE GEOPROB
WI Unique Well No. NA-	DNR Well ID No. NA-	Well Name P-2R	Final Static Water Level 686.673/2416 Feet MSL	Surface Elevation 687.79 Feet MSL
Local Grd Origin <input type="checkbox"/> (Estimated <input type="checkbox"/> or Boring Location <input type="checkbox"/>		State Plane 1/4 of _____ 1/4 of Section _____ T _____ N, R _____ E/W _____		Borehole Diameter 3 1/4 inches
Facility ID		County MANITOWOC	County Code 36	Civil Town/City/Village NEWTON

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
	NA	NA	1.0	BLIND DRILL FROM 0.0 TO 22.0 FEET. INSTALLED TEMP. WELL SCREENED 20.0 TO 22.0 FEET SEE BORING LOG P-3 FOR SOIL DESCRIPTION.				NA		moist					
			2.0			SW									
			3.0												
			4.0								wet				
			5.0			SP									
			6.0												
			7.0												
			8.0												
			9.0								wet				
			10.0												
			11.0												
			12.0												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature **T. Fisher** Firm **AECOM**
1555 N RiverCenter Dr. Milwaukee, WI 53212

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Sample			Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					
Number and Type	Length Alt. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	FGD/ Comments
	NA	NA	12.0	<p>BLIND DRILL FROM 0.0 TO 22.0 FEET.</p>	SP			NA		wet				
			13.0											
			14.0											
			15.0											
			16.0											
			17.0											
			18.0											
			19.0											
			20.0											
			21.0											
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

GEOPROBE

22.0

wet

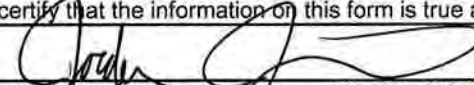
Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit			License/Permit/Monitoring Number			Boring Number P-3					
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Adam Last Name: Sweet			Date Drilling Started 8 25 15 MM/ DD/ YY			Date Drilling Completed 8 25 15 MM/ DD/ YY					
Firm: Horizon Construction & Excavation			Drilling Method Dual tube								
WI Unique Well No.		DNR Well ID No.		Well Name P-3		Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 3.25 inches	
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			State Plane N , E S/C/N			Local Grid Location (if applicable)			Lat ° ' " Long ° ' "		
1/4 of 1/4 of Section T N, R E/W			County MANITOWOC County Code 36			Civil Town/City/or Village NEWTON					

Sample Number and Type	Length Alt. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					P 200	RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index			
1 Dualtube	60 53		1.0	Loose very dark grayish brown (10YR 3/2) WELL GRADED SAND (SW), moist, non plastic, non cohesive, well-graded fine sand, little clay, little silt, little small gravel	SW										
			2.0	Dense yellowish brown (10YR 5/4) WELL GRADED SAND (SW), moist, nonplastic, noncohesive, well-graded medium to fine sand	SW										
			4.0	Medium dense yellowish brown (10YR 5/4) POORLY GRADED SAND (SP) wet, non plastic, noncohesive, poorly graded fine sand	SP										
2 Dualtube	60 60		6.0												
			8.0	Medium dense yellowish brown (10YR 5/4) WELL GRADED SAND (SW), wet, non plastic, non cohesive, well-graded medium to fine sand											
3 Dualtube	60 60		10.0												
			12.0												

Driller noted heaving sands

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **AECOM**
11425 W. Lake Park Drive, Milwaukee, WI 53224

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name			License/Permit/Monitoring Number			Boring Number P-4			
Boring Drilled By: Name of crew chief (first, last) and Firm Fist Name: Adam Last Name: Sweet Firm: Horizon Construction & Excavation			Date Drilling Started 8 25 15 MM/ DD/ YY		Date Drilling Completed 8 25 15 MM/ DD/ YY		Drilling Method Dual tube		
WI Unique Well No.		DNR Well ID No.		Well Name P-4		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane		N, E S/C/N		Lat		Local Grid Location (if applicable)	
1/4 of		1/4 of Section		T N, R E/W		Long		Feet S Feet W	


Facility ID _____ County Manitowish County Code 36 Civil NEWTON

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties							
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments		
1 Dual tube	60/30		1.0 2.0 3.0 4.0 5.0	Medium yellowish brown (10YR 5/6) WELL GRADED SAND WITH GRAVEL (SW) moist, Non plastic, non cohesive, well-graded medium to fine sand, few large gravel												
2 Dual tube	60/58		6.0 7.0 8.0 9.0 10.0	Medium yellowish brown (10YR 5/6) WELL GRADED SAND (SW) moist, non plastic, non cohesive, well-graded medium to fine sand.												
3 Dual tube	60/60		11.0 12.0	Becomes wet @ 7.5												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm **AECOM**
11425 W. Lake Park Drive, Milwaukee, WI 53224

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Sample		Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 23.0 24.0 25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0	<p>He</p> <p>EOB @ 15', set 1/2" inch well, to screened 5 to 15'</p>										<p>Driller noted hearing sands</p>

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit			License/Permit/Monitoring Number			Boring Number P-5					
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Adam Last Name: Sweet Exploration			Date Drilling Started 8 25 15 MM/ DD/ YY			Date Drilling Completed 8 25 15 MM/ DD/ YY					
Firm: Horizon Construction & Excavation			Drilling Method Macrocore			HSA					
WI Unique Well No.		DNR Well ID No.		Well Name P-5		Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 7 inches	
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			State Plane			Local Grid Location (if applicable)			Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
1/4 of _____ 1/4 of Section _____ T _____ N, R _____ E/W _____			County Monitowoc			County Code 36			Civil Town/City/Township/Village NEWTON		

Sample Number and Type	Sample Length Alt. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
1 Macrocore	60 32		1.0	Medium yellowish brown (10YR 5/4) WELL GRADED SAND (SW) moist WITH GRAVEL (SW) moist, non plastic, non cohesive, well-graded medium to fine sand, few large gravel	SW										
			2.0												
2 Macrocore	60 45		3.0	Loose yellowish brown (10YR 5/4) WELL GRADED SAND (SW) moist, non plastic, non cohesive, well graded medium to fine sand	SW										
			4.0												
			5.0												
			6.0												
			7.0												
			8.0												
			9.0												
			10.0												
			11.0												
			12.0												
				Blind drilled to 15' due to heaving sands											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Signature]* Firm: **AECOM**
11425 W. Lake Park Drive, Milwaukee, WI 53224

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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit			License/Permit/Monitoring Number			Boring Number P-6					
Boring Drilled By: Name of crew chief (first, last) and Firm Fist Name: Adam Last Name: Sweet			Date Drilling Started 8 25 15 MM/ DD/ YY			Date Drilling Completed 8 25 15 MM/ DD/ YY					
Firm: Horizon Construction & Exploration			Drilling Method Geoprobe								
WI Unique Well No.		DNR Well ID No.		Well Name P-6		Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 3.25 inches	
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			State Plane N, E S/C/N			Lat <input type="checkbox"/> ° <input type="checkbox"/> ' <input type="checkbox"/> "			Local Grid Location (if applicable) N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>		
1/4 of 1/4 of Section T N, R E/W			Long <input type="checkbox"/> ° <input type="checkbox"/> ' <input type="checkbox"/> "			Feet <input type="checkbox"/> S <input type="checkbox"/>			Feet <input type="checkbox"/> E <input type="checkbox"/> W <input type="checkbox"/>		
Facility ID		County MANITOWOC		County Code 36		Civil Town/City/or Village NEWTON					

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 Geoprobe	60		1.0	Medium yellowish brown (10YR 5/4) WELL GRADED SAND WITH GRAVEL (SW), moist, non plastic, non cohesive, well graded medium to fine sand few small gravel	SW									
2 Geoprobe	60		6.0	Medium yellowish brown (10YR 5/4) WELL GRADED SAND (SW), moist, non plastic non cohesive, well-graded medium to fine sand	SW									
			9.0	Becomes wet										
			10.0	Blind drilled due to heaving sands										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Signature]* Firm **AECOM**
11425 W. Lake Park Drive, Milwaukee, WI 53224

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit		License/Permit/Monitoring Number		Boring Number P-7	
Boring Drilled By: Name of crew chief (first, last) and Firm Fist Name: Bob Last Name: Albinger		Date Drilling Started 8 25 15		Date Drilling Completed 8 25 15	
Firm: Horizon Construction & Exploration		MM/ DD/ YY		MM/ DD/ YY	
WI Unique Well No.	DNR Well ID No.	Well Name P-7		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane		Local Grid Location (if applicable)	
1/4 of _____ 1/4 of Section _____ T _____ N, R _____ E/W		Lat _____ ° ' "		Feet _____ N _____ S _____ E _____ W	
Borehole Diameter 3.25 inches		Civil Town/City/or Village NEWTON			

Facility ID _____ County **MANITOWOC** 36 County Code _____

Sample Number and Type	Length Alt. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 Macrose	60 42		1.0	Loose yellowish brown (10YR 5/4) WELL GRADED SAND WITH GRAVEL (SW), moist, nonplastic, noncohesive, well graded medium to fine sand, few small gravel										
			2.0											
2 Macrose	60 45		3.0	Medium yellowish brown (10YR 5/4) WELL GRADED SAND (SW), moist to wet, nonplastic, noncohesive, well-graded medium to fine sand, trace gravel										
			4.0											
			5.0											
			6.0											
			7.0											
			8.0											
			9.0											
			10.0											
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm **AECOM**
11425 W. Lake Park Drive, Milwaukee, WI 53224

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Page of

Facility/Project Name Newton Gravel Pit			License/Permit/Monitoring Number			Boring Number P-8					
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Bob Last Name: Albinger Firm: Horizon Construction & Exploration			Date Drilling Started 8 25 15 MM/ DD/ YY		Date Drilling Completed 8 25 15 MM/ DD/ YY		Drilling Method Geoprobe / Dual tube				
WI Unique Well No.		DNR Well ID No.		Well Name P-8		Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 3.25 inches	
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			State Plane			Local Grid Location (if applicable)			Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
1/4 of <u> </u> /4 of Section <u> </u> T <u> </u> N, R <u> </u> E/W			County Monitowoc			County Code 36			City NEWTON		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 Geoprobe			1.0	Medium yellowish brown (10YR 5/4) WELL GRADED SAND WITH GRAVEL (SW), moist, nonplastic, noncohesive, well-graded medium to fine sand. few large to small gravel	SW									
			2.0											
2 Geoprobe			3.0	Medium yellowish brown (10YR 5/4) WELL GRADED SAND (SW), wet, nonplastic, noncohesive, well-graded medium to fine sand	SW									
			4.0											
			5.0	Medium yellowish brown (10YR 5/4) POORLY GRADED SAND (SP), wet, nonplastic, noncohesive, poorly graded fine sand	SP									
		6.0												
			7.0	EOB at 10 feet, due to heaving sands, blind drilled to 12 feet, set well, screened 2-12 feet										
		8.0												
			9.0											
		10.0												
			11.0											
		12.0												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm **AECOM**
11425 W. Lake Park Drive, Milwaukee, WI 53224

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit			License/Permit/Monitoring Number			Boring Number P-9			
Boring Drilled By: Name of crew chief (first, last) and Firm Fist Name: Bob Last Name: Albinger			Date Drilling Started 8 25 15 MM/ DD/ YY		Date Drilling Completed 8 25 15 MM/ DD/ YY		Drilling Method Geoprobe / Dual tube		
Firm: Horizon Construction & Exploration			Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 3.25 inches		
WI Unique Well No.		DNR Well ID No.		Well Name P-9		Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location (if applicable)	
State Plane		N, E S/C/N		Lat		N		E	
1/4 of		1/4 of Section		T N, R		E/W		Long	
Facility ID		County Monitowoc		County Code 36		Civil Town/City/or Village NEWTON			

Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
1 Geoprobe	60 32		1.0	Medium yellowish brown (10YR 5/4) WELL GRADED SAND (SW), moist, non plastic non cohesive, well-graded medium to fine sand, few large gravel											
			2.0												
2 Geoprobe	60 28		4.0	Loose light gray (10YR 7/1) WELL GRADED GRAVEL (GW), wet, non plastic, non cohesive, well-graded large gravel											
			6.0												
			10.0	BEOB @ 10', blind drilled to 12 feet due to heaving sands, set well @ to 12'											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Firm: **AECOM**
11425 W. Lake Park Drive, Milwaukee, WI 53224

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit		License/Permit/Monitoring Number		Boring Number P-10	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Bob Last Name: Alvinger		Date Drilling Started 8 25 15 MM/ DD/ YY		Date Drilling Completed 8 25 15 MM/ DD/ YY	
Firm: Horizon Construction & Exploration		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
WI Unique Well No.	DNR Well ID No.	Well Name P-10	Borehole Diameter 3.25 inches		
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location (if applicable) N E S W	
1/4 of 1/4 of Section T N, R EW		Lat		Long	
Facility ID		County Monitowoc	County Code 36	Civil Town/Citular Village NEWTON	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 Geoprobe	60 42		1.0	Hard dark reddish brown (2.5 YR 3/4) LEAN CLAY (CL) moist, medium plasticity, cohesive	CL									
			2.0	Medium yellowish brown (10 YR 5/6) WELL GRADED SAND (SP), wet, poorly to wet, non plastic, non cohesive, poorly graded fine sand becomes wet	SP									
2 Geoprobe	60 42		5.0	Medium yellowish brown (10 YR 5/6) WELL GRADED SAND (SW) wet, non plastic, non cohesive, well graded medium to fine sand										
			10.0	Heaving sands, blind drilled to 120, set well screened 20' to 12'										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Signature]* Firm: **AECOM**
11425 W. Lake Park Drive, Milwaukee, WI 53224

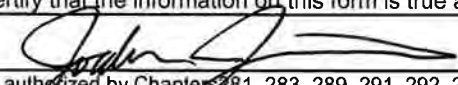
This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit			License/Permit/Monitoring Number			Boring Number P-11		
Boring Drilled By: Name of crew chief (first, last) and Firm Fist Name: Bob Last Name: Arbinger			Date Drilling Started 8 25 15 MM/ DD/ YY		Date Drilling Completed 8 25 15 MM/ DD/ YY		Drilling Method Geoprobe/ Dual tube	
Firm: Horizon Construction & Exploration			Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 3.25 inches	
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Well Name P-11		Local Grid Location (if applicable)			
State Plane 1/4 of _____ 1/4 of Section _____ T _____ N, R _____ E S/C/N			County Monitwoc		County Code 36		Civil Town/City/Village NEWTON	
Facility ID			County		County Code		Civil Town/City/Village	

Sample Number and Type	Length Alt. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 Geoprobe	60		1.0	Medium yellowish brown (10YR 5/6) well WELL GRADED SAND (SW), moist nonplastic not cohesive, well-graded med to fine sand, little gravel	SW										
			2.0												
2 Geoprobe	60	42	5.0	STIFF yellowish brown (10YR 5/6) moderately SILT (ML), moist, non-plastic, non cohesive, little clay	ML										
			7.0												
			9.0	SAME AS 0.0-7.0, Becomes wet @ 9 feet											
			10.0												
			11.0												
			12.0												
			13.0												
			14.0												
			15.0												
			16.0												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
11425 W. Lake Park Drive, Milwaukee, WI 53224

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name: **NEWTON GRAVEL PIT** License/Permit/Monitoring Number: _____ Boring Number: **P-12**

Boring Drilled By: Name of crew chief (first, last) and Firm
Fist Name: **DAN** Last Name: **FISHER** Date Drilling Started: **03/16/2016** Date Drilling Completed: **03/16/2016** Drilling Method: **4 1/4 inch ID HSA**

Firm: **HORIZON CONSTRUCTION & EXPLORATION**
WI Unique Well No.: _____ DNR Well ID No.: _____ Well Name: **P-12** Final Static Water Level: **685.33** Feet MSL Surface Elevation: **687.86** Feet MSL Borehole Diameter: **8 1/4** inches

Local Grd Origin (Estimated:) or Boring Location
State Plane: _____ N, _____ E S/C/N Lat: _____ ° ' " Long: _____ ° ' " Local Grd Location (if applicable): _____ Feet _____ N _____ S _____ Feet _____ E _____ W

1/4 of _____ 1/4 of Section _____ T _____ N, R _____ EW

Facility ID: _____ County: **MANITOWOC** County Code: **36** Civil Town/City/vr Village: **NEWTON**

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/Comments		
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200			
4 1/4" ID HSA	NA	NA	1.0	BLIND DRILL FROM 0.0 FEET TO 30.0 FEET	SW			NA								
			2.0													
			3.0													
			4.0													
			5.0													
			6.0													
			7.0													
			8.0													
			9.0													
			10.0													
			11.0													
			12.0													

See boring log P-1 for soil description

Moist

Wet

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: **T.S. [Signature]** Firm: **AECOM**
1555 N. RiverCenter Dr., Milwaukee, WI 53212

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Sample		Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RGD/
9 1/4" ID HSA	NA	NA	12.0	As above from 5.0 to 12.0 feet.	SP			NA		wet				
			13.0											
			14.0											
			15.0											
			16.0											
			17.0											
			18.0											
			19.0											
			20.0											
			21.0											
22.0		wet												
23.0														
24.0														
25.0														
26.0														
27.0														
28.0														
29.0		wet												
30.0														
31.0														
32.0														
9 1/4" ID HSA with 2-foot long DS split	24/20	-	30.0	Medium dense gray (10YR 5/1) WELL GRADED SAND (SW), wet. Non plastic; non cohesive; massive; well graded fine to medium sand, un, alluvium.	SW									

9 1/4" ID HSA

9 1/4" ID HSA with 2-foot long DS split

As above from 5.0 to 12.0 feet.

SP

SW

30.0

SW

NA

wet

wet

wet

Sample			Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties									
Number and Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments				
SS ②	24 19	NA	32.0	As above from 30.0 to 32.0 FEET				NA										
SS ③	24 21		34.0															
SS ④	24 1		36.0															
SS ⑤	24 22		38.0		Firm gray (10YR 5/1); SILT (ML); wet, non plastic; non cohesive; faintly lamination; few fine sand; alluvium.	SW												
SS ⑥	24 24		39.0	Soft, gray (10YR 5/1) LEAN CLAY (CL), moist, medium plasticity cohesive; massive; un, lacustrine.	40.5													
SS ⑦	24 18		41.0		41.0													
SS ⑧	24 16		42.0	Cobble at 42.0 feet. Medium coarse, gray (10YR 5/1) well GRADED SAND (SW), wet non plastic; non cohesive. massive; well graded fine to medium sand. un; alluvium.	42.0													
SS ⑨	24 16		43.0	As above 42.0 to 44.0 feet.	44.0													
SS ⑩	24 10		44.0	As above 42.0 to 46.0 feet.	SW													
SS ⑪	24 10		45.0	As above 42.0 to 48.0 feet.	SW													
SS ⑫	24 10		46.0		SW													
SS ⑬	24 10		47.0		SW													
SS ⑭	24 10		48.0		SW													
			49.0		SW													
			50.0	END OF BORING AT 50.0 FEET. INSTALLED WELL SCREENED 48.0 TO 50.0 FEET.	50.0													

Driller comment: Heavy Sand

Driller comment: Cobble at 42 Heaving Sand

Driller comment: Heaving Sand

Route to Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name NEWTON GRAVEL PIT		License/Permit/Monitoring Number		Boring Number P-13	
Boring Drilled By: Name of crew chief (first, last) and Firm Fist Name: DAN Last Name: FISHER		Date Drilling Started 03/16/2016		Date Drilling Completed 03/16/2016	
Firm: HORIZON CONSTRUCTION & EXPLORATION		MM/ DD/ YY 03/16/16		Drilling Method 4 1/4-inch ID HSA	
WI Unique Well No.	DNR Well ID No. P-13	Final Static Water Level 685.70 Feet MSL		Surface Elevation 688.37 Feet MSL	
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Well Name P-13		Borehole Diameter 0 1/4 inches	
State Plane 1/4 of _____ of Section _____ T _____ N, R _____ E/W _____		Local Grid Location (if applicable)		Feet _____ N _____ S _____ E _____ W	

Facility ID	County MANITOWOC	County Code 36	Civil Town/City/vr Village NEWTON
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/ Comments			
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200				
4 1/4" ID HSA	NA	NA	1.0	BLIND DRILL FROM 0.0 FEET TO 4.15 FEET. SEE BORING LOG P-1 FOR SOIL DESCRIPTION	SW	[Graphic Log]	[Well Diagram]	NA									
			2.0														
			3.0														
			4.0														
			5.0														
			6.0														
			7.0														
			8.0														
			9.0														
			10.0														
			11.0														
			12.0														

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: **T. S. [Signature]** Firm: **AECOM**
1555 N. RiverCenter Dr., Milwaukee, WI 53212

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Sample		Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
9/4" ID HSA	NA	NA	12.0	BLIND DRILL TO 91.5 FEET.	SW			NA						
			13.0											
			14.0											
			15.0											
			16.0											
			17.0											
			18.0											
			19.0											
			20.0											
			21.0											
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

9/4" ID
HSA



BLIND DRILL TO 91.5 FEET.

SW

SW

NA

wet

wet

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name: **Newton Gravel Pit** Local Grid Location of Well: _____ Well Name: **P-1**

Facility License, Permit or Monitoring No.: _____ Local Grid Origin: Estimated: or Well Location: Wis. Unique Well No: **VO297** DNR Well Id No.: _____

Facility ID: _____ St. Plane: _____ ft N _____ ft E S/C/N _____ Date Well Installed: **8 25 2015**

Type of Well: _____ Section Location of Waste/Source: _____ Well Installed By: Name (first, last) and Firm: **Adam Sweet**

Well Code: **11/MW** Location of Well relative to Waste/Source: _____ Gov. Lot No.: _____

Distance from Waste/Source: _____ ft. Enf. Stds. Apply: u Upgradient s Sidegradient
d Downgradient n Not Known

Horizon Construction and Exploration

A. Protective pipe, top elevation _____ ft. MSL
 B. Well casing, top elevation **689.96** ft. MSL
 C. Land surface elevation **687.87** ft. MSL
 D. Surface seal, bottom _____ ft. MSL or **0.0** Ft.

1. Cap and lock? Yes No
 2. Protective cover pipe:
 a. Inside diameter: _____ In.
 b. Length: _____ Ft.
 c. Material: Steel 04
 Other _____
 d. Additional Protection? Yes No
 If yes, describe: _____

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

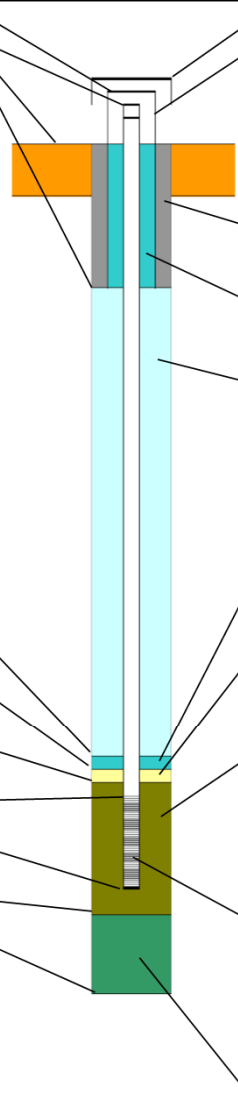
13. Sieve analysis performed? Yes No

14 Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other _____

15 Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16 Drilling additives used? Yes No
 Describe: _____ NA

17. Source of water (attach analysis, if required):
 _____ NA



E Bentonite seal, top **687.87** ft. MSL **0.0** ft.
 F. Fine sand, top **685.87** ft. MSL **2.0** ft.
 G. Filter Pack, top **685.37** ft. MSL **2.5** ft.
 H. Screen joint, top **684.87** ft. MSL **3.0** ft.
 I. Well Bottom **674.87** ft. MSL **13.0** ft.
 J. Filter Pack, bottom **674.87** ft. MSL **13.0** ft.
 K. Borehole, bottom **674.87** ft. MSL **13.0** ft.
 L. Borehole, diameter **8.25** In.
 M. O.D. well casing **2.37** In.
 N. I.D. well casing **2.06** In.

3. Surface seal: Bentonite 30
 Concrete 01
 Other _____

4. material between well casing and protective pipe:
 Bentonite 30
 Other _____

5. Annular space seal: a. Granular/Chipped Bentonite 33
 b. _____ Lbs/gal mud weight... Bentonite-sand slurry 35
 c. _____ Lbs/gal mud weight... Bentonite slurry 31
 d. _____% Bentonite... Bentonite-cement grout 50
 e. 1.5 Ft³ volume added for any of the above
 f. How installed: Tremie 01
 Tremie Pumped 02
 Gravity 08

6. Bentonite Seal: a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite Chips 32
 c. _____ Other _____

7. Fine sand material: Manufacturer, product name & mesh size
 a. _____
 b. Volume added **0.25 bag**

8. Filter pack material: Manufacturer, product name & mesh size
 a. **Sidley OH #5**
 b. Volume added **4 bags**

9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other _____

10. Screen Material: **PVC**
 a. screen type: Factory cut 11
 Continuous slot 01
 Other _____
 b. Manufacturer **Monoflex**
 b. Slot size: **0.010** in.
 c. slotted length: **10.0** ft.

11. Backfill material (below filter pack): None 14
 Other _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *Jordan [Signature]* Firm: **AECOM**
 1555 N River Center Dr., Milwaukee WI 53212

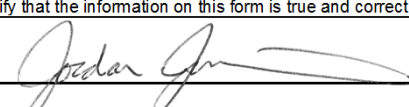
Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit	Local Grid Location of Well ft N _____ ft E _____ ft S _____ ft W _____	Well Name P-2
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> estimated: <input type="checkbox"/> or Well Location <input type="checkbox"/>	Wis. Unique Well No. NA DNR Well Id No. NA
Facility ID	Lat. _____ Long _____	Date Well Installed 8 25 2015 m m d y y y
Type of Well	St. Plane _____ ft N _____ ft E S/C/N	Well Installed By: Name (first, last) and Firm Adam Sweet
Well Code _____ / _____	Section Location of Waste/Source 1/4 of _____ of Sec. _____ T. _____ N, R. _____ W	Gov. Lot No. _____
Distance from Waste/Source _____ ft.	Location of Well relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Horizon Construction and Exploration

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation 689.79 ft. MSL	2. Protective cover pipe:
C. Land surface elevation 687.84 ft. MSL	a. Inside diameter: _____ In.
D. Surface seal, bottom _____ ft. MSL or 0.0 Ft.	b. Length: _____ Ft.
	c. Material: Steel <input type="checkbox"/> 04 Other <input type="checkbox"/>
	d. Additional Protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
	4. material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 1.5 Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie Pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
	6. Bentonite Seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite Chips <input checked="" type="checkbox"/> 32 c. 1.5 bags. Other <input type="checkbox"/>
	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____
	8. Filter pack material: Manufacturer, product name & mesh size a. <u>Sidley OH #5</u> b. Volume added <u>0.5 bag</u>
	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
	10. Screen Material: <u>PVC</u> a. screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
	b. Manufacturer <u>Monoflex</u> b. Slot size: 0.010 in. c. slotted length: 2.0 ft.
	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
1555 N River Center Dr., Milwaukee WI 53212

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit	Local Grid Location of Well N _____ E _____ ft S _____ ft W _____	Well Name P-2R
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> estimated: <input type="checkbox"/> or Well Location <input type="checkbox"/>	Wis. Unique Well No. NA DNR Well Id No. NA
Facility ID	Lat. _____ Long _____ or _____	Date Well Installed 3 16 2016 m m d d y y y
Type of Well	St. Plane _____ ft N _____ ft E S/C/N _____	Well Installed By: Name (first, last) and Firm Dan Fisher
Well Code _____ / _____	Section Location of Waste/Source _____ 1/4 of Sec. _____, T. _____, N, R _____, W _____	Gov. Lot No. _____
Distance from Waste/Source _____ ft.	Location of Well relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Horizon Construction and Exploration

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ In.
C. Land surface elevation _____ ft. MSL	b. Length: _____ Ft.
D. Surface seal, bottom _____ ft. MSL or _____ 0.0 Ft.	c. Material: _____ Steel <input type="checkbox"/> 04 Other <input type="checkbox"/> _____
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional Protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: _____ Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/> _____
14 Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41	4. material between well casing and protective pipe: _____ Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/> _____
Geoprobe _____ Other <input checked="" type="checkbox"/> _____	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 1.5 Ft ³ volume added for any of the above
15 Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	f. How installed: Tremie <input type="checkbox"/> 01 Tremie Pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
16 Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe _____ NA	6. Bentonite Seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite Chips <input checked="" type="checkbox"/> 32 c. <u>0.5 bags</u> Other <input type="checkbox"/> _____
17. Source of water (attach analysis, if required): _____ NA	7. Fine sand material: _____ Manufacturer, product name & mesh size a. _____ b. Volume added _____
E. Bentonite seal, top _____ 687.24 ft. MSL _____ 0.5 ft.	8. Filter pack material: _____ Manufacturer, product name & mesh size a. <u>Sidley OH #5</u> _____ b. Volume added <u>0.75 bag</u>
F. Fine sand, top _____ 668.84 ft. MSL _____ 18.9 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/> _____
G. Filter Pack, top _____ 668.84 ft. MSL _____ 18.9 ft.	10. Screen Material: <u>PVC</u> a. screen type: _____ Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> _____
H. Screen joint, top _____ 667.84 ft. MSL _____ 19.9 ft.	b. Manufacturer <u>Monoflex</u> b. Slot size: _____ 0.010 in. c. slotted length: _____ 2.0 ft.
I. Well Bottom _____ 665.84 ft. MSL _____ 21.9 ft.	11. Backfill material (below filter pack): _____ None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/> _____
J. Filter Pack, bottom _____ 665.84 ft. MSL _____ 21.9 ft.	
K. Borehole, bottom _____ 665.84 ft. MSL _____ 21.9 ft.	
L. Borehole, diameter _____ 3.25 In.	
M. O.D. well casing _____ 1.37 In.	
N. I.D. well casing _____ 1.06 In.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Tory A. Schulz Firm **AECOM**
1555 N River Center Dr., Milwaukee WI 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit	Local Grid Location of Well ft N _____ ft E _____ ft S _____ ft W _____	Well Name P-3
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> estimated: <input type="checkbox"/> or Well Location <input type="checkbox"/>	Wis. Unique Well No. NA DNR Well Id No. NA
Facility ID	Lat. _____ Long _____	Date Well Installed m m _____ d d _____ y y y y 2015
Type of Well	St. Plane _____ ft N _____ ft E S/C/N	Well Installed By: Name (first, last) and Firm Adam Sweet
Well Code _____ / _____	Section Location of Waste/Source 1/4 of _____ of Sec. _____ T. _____ N, R. _____ W	Gov. Lot No. _____
Distance from Waste/Source _____ ft.	Location of Well relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Horizon Construction and Exploration

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation 689.57 ft. MSL	2. Protective cover pipe:
C. Land surface elevation 687.81 ft. MSL	a. Inside diameter: _____ In.
D. Surface seal, bottom _____ ft. MSL or 0.0 Ft.	b. Length: _____ Ft.
	c. Material: Steel <input type="checkbox"/> 04 Other <input type="checkbox"/>
	d. Additional Protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
	4. material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 2 bags volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie Pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
	6. Bentonite Seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite Chips <input checked="" type="checkbox"/> 32 c. _____ bags. Other <input type="checkbox"/>
	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____
	8. Filter pack material: Manufacturer, product name & mesh size a. <u>Sidley OH #5</u> b. Volume added <u>0.5 bag</u>
	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
	10. Screen Material: <u>PVC</u> a. screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
	b. Manufacturer <u>Monoflex</u> b. Slot size: 0.010 in. c. slotted length: 2.0 ft.
	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Firm: **AECOM**
1555 N River Center Dr., Milwaukee WI 53212

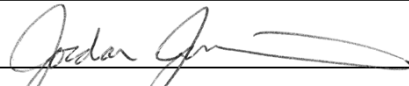
Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit	Local Grid Location of Well N _____ E _____ ft S _____ ft W _____	Well Name P-4	
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> estimated: <input type="checkbox"/> or Well Location <input type="checkbox"/>	Wis. Unique Well No.	DNR Well Id No.
Facility ID	Lat. _____ Long _____ or _____	NA	NA
Type of Well	St. Plane _____ ft N _____ ft E S/C/N _____	Date Well Installed 8 25 2015 m m d d y y y	
Well Code _____ / _____	Section Location of Waste/Source _____ 1/4 of _____ of Sec. _____, T. _____, N, R _____, W _____	Well Installed By: Name (first, last) and Firm Adam Sweet	
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
		Gov. Lot No. _____	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ In.
C. Land surface elevation _____ ft. MSL	b. Length: _____ Ft.
D. Surface seal, bottom _____ ft. MSL or _____ 0.0 Ft.	c. Material: Steel <input type="checkbox"/> 04 Other _____
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	d. Additional Protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
14 Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Dual Tube _____ Other <input checked="" type="checkbox"/>	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other _____
15 Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	4. material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other _____
16 Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe _____ NA	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 2 bags volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie Pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
17. Source of water (attach analysis, if required): _____ NA	6. Bentonite Seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite Chips <input checked="" type="checkbox"/> 32 c. _____ bags Other _____
E. Bentonite seal, top _____ 690.80 ft. MSL _____ 0.0 ft.	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____
F. Fine sand, top _____ 687.80 ft. MSL _____ 3.0 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. _____ Sidley OH #5 _____ b. Volume added _____ 0.5 bag
G. Filter Pack, top _____ 686.80 ft. MSL _____ 4.0 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other _____
H. Screen joint, top _____ 685.80 ft. MSL _____ 5.0 ft.	10. Screen Material: _____ PVC. a. screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other _____
I. Well Bottom _____ 675.80 ft. MSL _____ 15.0 ft.	b. Manufacturer _____ Monoflex b. Slot size: _____ 0.010 in. c. slotted length: _____ 10.0 ft.
J. Filter Pack, bottom _____ 675.80 ft. MSL _____ 15.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other _____
K. Borehole, bottom _____ 675.80 ft. MSL _____ 15.0 ft.	
L. Borehole, diameter _____ 3.25 In.	
M. O.D. well casing _____ 1.37 In.	
N. I.D. well casing _____ 1.06 In.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **AECOM**
1555 N River Center Dr., Milwaukee WI 53212

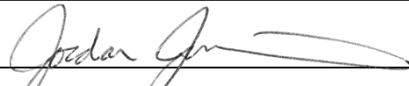
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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit	Local Grid Location of Well N _____ E _____ ft S _____ ft W _____	Well Name P-5	
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> estimated: <input type="checkbox"/> or Well Location <input type="checkbox"/>	Wis. Unique Well No.	DNR Well Id No.
Facility ID	Lat. _____ Long _____ or _____	NA	NA
Type of Well	St. Plane _____ ft N _____ ft E S/C/N _____	Date Well Installed 8 25 2015 m m d d y y y	
Well Code _____ / _____	Section Location of Waste/Source _____ 1/4 of _____ of Sec. _____, T. _____, N, R _____, W _____	Well Installed By: Name (first, last) and Firm Adam Sweet	
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
		Gov. Lot No. _____	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ In.
C. Land surface elevation _____ ft. MSL	b. Length: _____ Ft.
D. Surface seal, bottom _____ ft. MSL or _____ 0.0 Ft.	c. Material: Steel <input type="checkbox"/> 04 Other _____
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	d. Additional Protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
14 Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Dual Tube _____ Other <input checked="" type="checkbox"/>	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other _____
15 Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	4. material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other _____
16 Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe _____ NA	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 2 bags volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie Pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
17. Source of water (attach analysis, if required): _____ NA	6. Bentonite Seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite Chips <input checked="" type="checkbox"/> 32 c. _____ bags Other _____
E. Bentonite seal, top _____ 693.07 ft. MSL _____ 0.0 ft.	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____
F. Fine sand, top _____ 690.07 ft. MSL _____ 3.0 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. _____ Sidley OH #5 _____ b. Volume added _____ 4 bag
G. Filter Pack, top _____ 690.07 ft. MSL _____ 3.0 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other _____
H. Screen joint, top _____ 688.07 ft. MSL _____ 5.0 ft.	10. Screen Material: _____ PVC. a. screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other _____
I. Well Bottom _____ 678.07 ft. MSL _____ 15.0 ft.	b. Manufacturer _____ Monoflex b. Slot size: _____ 0.010 in. c. slotted length: _____ 10.0 ft.
J. Filter Pack, bottom _____ 678.07 ft. MSL _____ 15.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other _____
K. Borehole, bottom _____ 678.07 ft. MSL _____ 15.0 ft.	
L. Borehole, diameter _____ 7.0 In.	
M. O.D. well casing _____ 1.37 In.	
N. I.D. well casing _____ 1.06 In.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **AECOM**
1555 N River Center Dr., Milwaukee WI 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

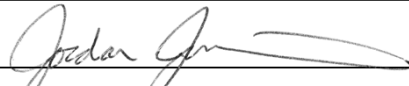
Facility/Project Name Newton Gravel Pit	Local Grid Location of Well N _____ E _____ ft S _____ ft W _____	Well Name P-6	
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> estimated: <input type="checkbox"/> or Well Location <input type="checkbox"/>	Wis. Unique Well No.	DNR Well Id No.
Facility ID	Lat. _____ Long _____ or _____	NA	NA
Type of Well	St. Plane _____ ft N _____ ft E S/C/N _____	Date Well Installed 8 25 2015 m m d d y y y	
Well Code _____ / _____	Section Location of Waste/Source _____ 1/4 of _____ of Sec. _____, T. _____, N, R _____, W _____	Well Installed By: Name (first, last) and Firm Adam Sweet	
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
		Gov. Lot No. _____	
Horizon Construction and Exploration			

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL or _____ 0.0 Ft.</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ 0.0 Ft.</p>	<p>1. Cap and lock? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ In. b. Length: _____ Ft. c. Material: Steel <input type="checkbox"/> 04 Other <input type="checkbox"/></p> <p>d. Additional Protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 1 bag volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie Pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08</p> <p>6. Bentonite Seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite Chips <input checked="" type="checkbox"/> 32 c. _____ bags Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. _____ Sidley OH #5 _____ b. Volume added _____ 1.5 bag</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen Material: <u>PVC</u> a. screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer <u>Monoflex</u> b. Slot size: _____ 0.010 in. c. slotted length: _____ 10.0 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
14 Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Dual Tube _____ Other <input checked="" type="checkbox"/>	15 Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99
16 Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe _____ NA	17. Source of water (attach analysis, if required): _____ NA

E. Bentonite seal, top	693.73 ft. MSL	_____ 0.0 ft.
F. Fine sand, top	689.73 ft. MSL	_____ 4.0 ft.
G. Filter Pack, top	689.73 ft. MSL	_____ 4.0 ft.
H. Screen joint, top	687.73 ft. MSL	_____ 6.0 ft.
I. Well Bottom	677.73 ft. MSL	_____ 16.0 ft.
J. Filter Pack, bottom	677.73 ft. MSL	_____ 16.0 ft.
K. Borehole, bottom	677.73 ft. MSL	_____ 16.0 ft.
L. Borehole, diameter	_____ 3.25 In.	
M. O.D. well casing	_____ 1.37 In.	
N. I.D. well casing	_____ 1.06 In.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
1555 N River Center Dr., Milwaukee WI 53212

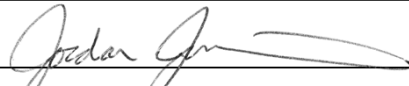
Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit	Local Grid Location of Well ft N _____ E _____ ft S _____ W _____	Well Name P-7
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> estimated: <input type="checkbox"/> or Well Location <input type="checkbox"/>	Wis. Unique Well No. NA DNR Well Id No. NA
Facility ID	Lat. _____ Long _____ or _____	Date Well Installed 8 25 2015 m m d d y y y
Type of Well	St. Plane _____ ft N _____ ft E S/C/N _____ Section Location of Waste/Source _____	Well Installed By: Name (first, last) and Firm Adam Sweet
Well Code _____ / _____	Location of Well relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot No. _____
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Horizon Construction and Exploration

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ In.
C. Land surface elevation _____ ft. MSL	b. Length: _____ Ft.
D. Surface seal, bottom _____ ft. MSL or _____ 0.0 Ft.	c. Material: Steel <input type="checkbox"/> 04 Other _____
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional Protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other _____
14 Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Dual Tube _____ Other <input checked="" type="checkbox"/>	4. material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other _____
15 Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 0.5 bag volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie Pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
16 Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe _____ NA	6. Bentonite Seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite Chips <input checked="" type="checkbox"/> 32 c. _____ bags Other _____
17. Source of water (attach analysis, if required): _____ NA	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____
E. Bentonite seal, top _____ 688.50 ft. MSL _____ 0.0 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. _____ Sidley OH #5 _____ b. Volume added _____ 1.5 bag
F. Fine sand, top _____ 686.50 ft. MSL _____ 2.0 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other _____
G. Filter Pack, top _____ 686.50 ft. MSL _____ 2.0 ft.	10. Screen Material: _____ PVC. a. screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other _____
H. Screen joint, top _____ 686.50 ft. MSL _____ 2.0 ft.	b. Manufacturer _____ Monoflex b. Slot size: _____ 0.010 in. c. slotted length: _____ 10.0 ft.
I. Well Bottom _____ 676.50 ft. MSL _____ 12.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other _____
J. Filter Pack, bottom _____ 676.50 ft. MSL _____ 12.0 ft.	
K. Borehole, bottom _____ 676.50 ft. MSL _____ 12.0 ft.	
L. Borehole, diameter _____ 3.25 In.	
M. O.D. well casing _____ 1.37 In.	
N. I.D. well casing _____ 1.06 In.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **AECOM**
1555 N River Center Dr., Milwaukee WI 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

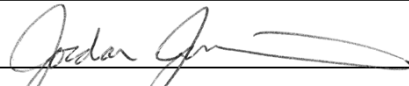
Facility/Project Name Newton Gravel Pit	Local Grid Location of Well N _____ E _____ ft S _____ ft W _____	Well Name P-8	
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> estimated: <input type="checkbox"/> or Well Location <input type="checkbox"/>	Wis. Unique Well No.	DNR Well Id No.
Facility ID	Lat. _____ Long _____ or _____	NA	NA
Type of Well	St. Plane _____ ft N _____ ft E S/C/N _____	Date Well Installed 8 25 2015 m m d d y y y	
Well Code _____ / _____	Section Location of Waste/Source _____ 1/4 of _____ of Sec. _____, T. _____ N, R. _____ W	Well Installed By: Name (first, last) and Firm Adam Sweet	
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
		Gov. Lot No. _____	
Horizon Construction and Exploration			

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL or _____ 0.0 Ft.</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ 0.0 Ft.</p>	<p>1. Cap and lock? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ In. b. Length: _____ Ft. c. Material: Steel <input type="checkbox"/> 04 Other <input type="checkbox"/></p> <p>d. Additional Protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 0.5 bag volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie Pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08</p> <p>6. Bentonite Seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite Chips <input checked="" type="checkbox"/> 32 c. _____ bags Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. _____ Sidley OH #5 _____ b. Volume added _____ 1.5 bag</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen Material: _____ PVC. a. screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer <u>Monoflex</u> b. Slot size: _____ 0.010 in. c. slotted length: _____ 10.0 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
---	---

12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
14 Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Dual Tube _____ Other <input checked="" type="checkbox"/>	15 Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99
16 Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe _____ NA	17. Source of water (attach analysis, if required): _____ NA

E. Bentonite seal, top	688.10 ft. MSL	_____ 0.0 ft.
F. Fine sand, top	686.10 ft. MSL	_____ 2.0 ft.
G. Filter Pack, top	686.10 ft. MSL	_____ 2.0 ft.
H. Screen joint, top	686.10 ft. MSL	_____ 2.0 ft.
I. Well Bottom	676.10 ft. MSL	_____ 12.0 ft.
J. Filter Pack, bottom	676.10 ft. MSL	_____ 12.0 ft.
K. Borehole, bottom	676.10 ft. MSL	_____ 12.0 ft.
L. Borehole, diameter	_____ 3.25 In.	
M. O.D. well casing	_____ 1.37 In.	
N. I.D. well casing	_____ 1.06 In.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **AECOM**
1555 N River Center Dr., Milwaukee WI 53212

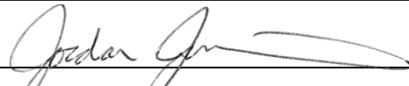
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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit	Local Grid Location of Well N _____ E _____ ft S _____ ft W _____	Well Name P-9	
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> estimated: <input type="checkbox"/> or Well Location <input type="checkbox"/>	Wis. Unique Well No.	DNR Well Id No.
Facility ID	Lat. _____ Long _____ or _____	NA	NA
Type of Well	St. Plane _____ ft N _____ ft E S/C/N _____	Date Well Installed 8 25 2015 m m d d y y y	
Well Code _____ / _____	Section Location of Waste/Source _____ 1/4 of _____ of Sec. _____, T. _____, N, R _____, W _____	Well Installed By: Name (first, last) and Firm Adam Sweet	
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
		Gov. Lot No. _____	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ In.
C. Land surface elevation _____ ft. MSL	b. Length: _____ Ft.
D. Surface seal, bottom _____ ft. MSL or _____ 0.0 Ft.	c. Material: Steel <input type="checkbox"/> 04 Other _____
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional Protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other _____
14 Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Dual Tube _____ Other <input checked="" type="checkbox"/> _____	4. material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other _____
15 Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 0.5 bag volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie Pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
16 Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe _____ NA	6. Bentonite Seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite Chips <input checked="" type="checkbox"/> 32 c. _____ bag Other _____
17. Source of water (attach analysis, if required): _____ NA	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____
E. Bentonite seal, top _____ 687.71 ft. MSL _____ 0.0 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. _____ Sidley OH #5 _____ b. Volume added _____ 1.5 bag
F. Fine sand, top _____ 685.71 ft. MSL _____ 2.0 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other _____
G. Filter Pack, top _____ 685.71 ft. MSL _____ 2.0 ft.	10. Screen Material: _____ PVC a. screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other _____
H. Screen joint, top _____ 685.71 ft. MSL _____ 2.0 ft.	b. Manufacturer _____ Monoflex b. Slot size: _____ 0.010 in. c. slotted length: _____ 10.0 ft.
I. Well Bottom _____ 675.71 ft. MSL _____ 12.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other _____
J. Filter Pack, bottom _____ 675.71 ft. MSL _____ 12.0 ft.	
K. Borehole, bottom _____ 675.71 ft. MSL _____ 12.0 ft.	
L. Borehole, diameter _____ 3.25 In.	
M. O.D. well casing _____ 1.37 In.	
N. I.D. well casing _____ 1.06 In.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **AECOM**
1555 N River Center Dr., Milwaukee WI 53212

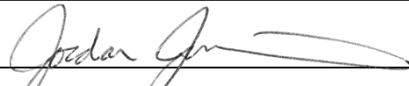
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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit	Local Grid Location of Well N _____ E _____ ft S _____ ft W _____	Well Name P-10	
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> estimated: <input type="checkbox"/> or Well Location <input type="checkbox"/>	Wis. Unique Well No.	DNR Well Id No.
Facility ID	Lat. _____ Long _____ or _____	NA	NA
Type of Well	St. Plane _____ ft N _____ ft E S/C/N _____	Date Well Installed 8 25 2015 m m d d y y y	
Well Code _____ / _____	Section Location of Waste/Source _____ 1/4 of _____ of Sec. _____, T. _____, N, R _____, W _____	Well Installed By: Name (first, last) and Firm Adam Sweet	
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
		Gov. Lot No. _____	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ In.
C. Land surface elevation _____ ft. MSL	b. Length: _____ Ft.
D. Surface seal, bottom _____ ft. MSL or _____ 0.0 Ft.	c. Material: Steel <input type="checkbox"/> 04 Other _____
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional Protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other _____
14 Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Dual Tube _____ Other <input checked="" type="checkbox"/>	4. material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other _____
15 Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 2 bags volume added for any of the above
16 Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe _____ NA	f. How installed: Tremie <input type="checkbox"/> 01 Tremie Pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
17. Source of water (attach analysis, if required): _____ NA	6. Bentonite Seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite Chips <input checked="" type="checkbox"/> 32 c. <u>0.5 bag</u> Other _____
E. Bentonite seal, top _____ 689.44 ft. MSL _____ 0.0 ft.	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____
F. Fine sand, top _____ 687.44 ft. MSL _____ 2.0 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>Sidley OH #5</u> _____ b. Volume added <u>1.5 bag</u>
G. Filter Pack, top _____ 687.44 ft. MSL _____ 2.0 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other _____
H. Screen joint, top _____ 687.44 ft. MSL _____ 2.0 ft.	10. Screen Material: <u>PVC</u> a. screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other _____
I. Well Bottom _____ 677.44 ft. MSL _____ 12.0 ft.	b. Manufacturer <u>Monoflex</u> b. Slot size: _____ 0.010 in. c. slotted length: _____ 10.0 ft.
J. Filter Pack, bottom _____ 677.44 ft. MSL _____ 12.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other _____
K. Borehole, bottom _____ 677.44 ft. MSL _____ 12.0 ft.	
L. Borehole, diameter _____ 3.25 In.	
M. O.D. well casing _____ 1.37 In.	
N. I.D. well casing _____ 1.06 In.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **AECOM**
1555 N River Center Dr., Milwaukee WI 53212

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit	Local Grid Location of Well N _____ E _____ ft S _____ ft W _____	Well Name P-11	
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> estimated: <input type="checkbox"/> or Well Location <input type="checkbox"/>	Wis. Unique Well No.	DNR Well Id No.
Facility ID	Lat. _____ Long _____ or _____	NA	NA
Type of Well	St. Plane _____ ft N _____ ft E S/C/N _____	Date Well Installed 8 25 2015 m m d d y y y	
Well Code _____ / _____	Section Location of Waste/Source _____ 1/4 of _____ of Sec. _____, T. _____ N, R. _____ W	Well Installed By: Name (first, last) and Firm Adam Sweet	
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
		Gov. Lot No. _____	
Horizon Construction and Exploration			

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL or _____ 0.0 Ft.</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ 0.0 Ft.</p>	<p>1. Cap and lock? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ In. b. Length: _____ Ft. c. Material: Steel <input type="checkbox"/> 04 Other <input type="checkbox"/></p> <p>d. Additional Protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. volume added for any of the above _____ f. How installed: Tremie <input type="checkbox"/> 01 Tremie Pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08</p> <p>6. Bentonite Seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite Chips <input checked="" type="checkbox"/> 32 c. 1.5 bags. Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. Sidley OH #5. <input type="checkbox"/></p> <p>b. Volume added 1.5 bag</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen Material: PVC. a. screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer Monoflex b. Slot size: 0.010 in. c. slotted length: 10.0 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

14 Drilling method used: Rotary 50
Hollow Stem Auger 41
Dual Tube _____ Other

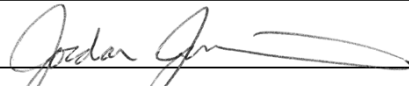
15 Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16 Drilling additives used? Yes No
Describe _____ NA

17. Source of water (attach analysis, if required):
_____ NA

E. Bentonite seal, top	693.54 ft. MSL	_____ 0.0 ft.
F. Fine sand, top	689.54 ft. MSL	_____ 4.0 ft.
G. Filter Pack, top	689.54 ft. MSL	_____ 4.0 ft.
H. Screen joint, top	687.54 ft. MSL	_____ 6.0 ft.
I. Well Bottom	677.54 ft. MSL	_____ 16.0 ft.
J. Filter Pack, bottom	677.54 ft. MSL	_____ 16.0 ft.
K. Borehole, bottom	677.54 ft. MSL	_____ 16.0 ft.
L. Borehole, diameter	_____ 3.25 In.	
M. O.D. well casing	_____ 1.37 In.	
N. I.D. well casing	_____ 1.06 In.	

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Signature:  Firm: **AECOM**
1555 N River Center Dr., Milwaukee WI 53212

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit		Local Grid Location of Well ft N _____ E _____ ft S _____ W _____		Well Name P-12	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> estimated: <input type="checkbox"/> or Well Location <input type="checkbox"/>		Wis. Unique Well No VO298	
Facility ID		Lat. _____ Long _____ or _____		DNR Well Id No.	
Type of Well		St. Plane _____ ft N _____ ft E S/C/N _____		Date Well Installed 3 16 2016 m m d d y y y	
Well Code 12/PZ		Section Location of Waste/Source _____ 1/4 of _____ of Sec. _____, T. _____, N, R _____, W _____		Well Installed By: Name (first, last) and Firm Dan Fisher	
Distance from Waste/Source _____ ft.		Location of Well relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot No.	
Enf. Stds. Apply <input checked="" type="checkbox"/>				Horizon Construction and Exploration	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ In.
C. Land surface elevation _____ ft. MSL or _____ 0.0 Ft.	b. Length: _____ Ft.
D. Surface seal, bottom _____ ft. MSL or _____ 0.0 Ft.	c. Material: Steel <input type="checkbox"/> 04 Other <input type="checkbox"/> _____
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional Protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/> _____
14 Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/> _____	4. material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/> _____
15 Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 2 Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie Pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
16 Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	6. Bentonite Seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite Chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/> _____
17. Source of water (attach analysis, if required): <u>Fredonia, WI Municipicle</u>	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added <u>0.3 bag</u>
E. Bentonite seal, top <u>687.36</u> ft. MSL <u>0.5</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>Sidley OH #5</u> b. Volume added <u>1 bag</u>
F. Fine sand, top <u>640.96</u> ft. MSL <u>46.9</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/> _____
G. Filter Pack, top <u>639.96</u> ft. MSL <u>47.9</u> ft.	10. Screen Material: <u>PVC</u> a. screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> _____
H. Screen joint, top <u>638.96</u> ft. MSL <u>48.9</u> ft.	b. Manufacturer <u>Monoflex</u> b. Slot size: <u>0.010</u> in. c. slotted length: <u>2.0</u> ft.
I. Well Bottom <u>636.96</u> ft. MSL <u>50.9</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/> _____
J. Filter Pack, bottom <u>636.96</u> ft. MSL <u>50.9</u> ft.	
K. Borehole, bottom <u>636.96</u> ft. MSL <u>50.9</u> ft.	
L. Borehole, diameter <u>8.25</u> In.	
M. O.D. well casing <u>2.37</u> In.	
N. I.D. well casing <u>2.06</u> In.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Tory A. Schulz Firm **AECOM**
1555 N River Center Dr., Milwaukee WI 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Newton Gravel Pit		Local Grid Location of Well ft N _____ E _____ ft S _____ W _____		Well Name P-13	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> estimated: <input type="checkbox"/> or Well Location <input type="checkbox"/>		Wis. Unique Well No VO299	
Facility ID		Lat. _____ Long _____		DNR Well Id No.	
Type of Well		St. Plane _____ ft N _____ ft E S/C/N _____		Date Well Installed 3 16 2016 m m d d y y y	
Well Code 12/PZ		Section Location of Waste/Source 1/4 of _____ of Sec. _____, T. _____, N, R _____, W _____		Well Installed By: Name (first, last) and Firm Dan Fisher	
Distance from Waste/Source _____ ft.		Location of Well relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot No.	
Enf. Stds. Apply <input checked="" type="checkbox"/>				Horizon Construction and Exploration	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL or _____ 0.0 Ft.</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ 0.0 Ft.</p>	<p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ In. b. Length: _____ Ft. c. Material: Steel <input type="checkbox"/> 04 Other <input type="checkbox"/></p> <p>d. Additional Protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 2 Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie Pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite Seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite Chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ 0.25 bag</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. _____ Sidley OH #5. <input type="checkbox"/> b. Volume added _____ 1 bag</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen Material: <u>PVC.</u> a. screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer <u>Monoflex</u> b. Slot size: _____ 0.010 in. c. slotted length: _____ 2.0 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
---	---

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

14 Drilling method used: Rotary 50
Hollow Stem Auger 41
Other

15 Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16 Drilling additives used? Yes No
Describe _____

17. Source of water (attach analysis, if required):
Fredonia, WI Municipicle

E. Bentonite seal, top	687.87 ft. MSL	_____ 0.5 ft.
F. Fine sand, top	650.37 ft. MSL	_____ 38.0 ft.
G. Filter Pack, top	650.37 ft. MSL	_____ 38.0 ft.
H. Screen joint, top	647.67 ft. MSL	_____ 40.7 ft.
I. Well Bottom	645.67 ft. MSL	_____ 42.7 ft.
J. Filter Pack, bottom	645.67 ft. MSL	_____ 42.7 ft.
K. Borehole, bottom	645.67 ft. MSL	_____ 42.7 ft.
L. Borehole, diameter	_____ 8.25 In.	
M. O.D. well casing	_____ 2.37 In.	
N. I.D. well casing	_____ 2.06 In.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Tory A. Schulz Firm **AECOM**
 1555 N River Center Dr., Milwaukee WI 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

Attachment B
Analytical Laboratory Data

Synergy Environmental Lab, INC.

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

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Report Date 04-Sep-15

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E29560

Lab Code 5029560A
Sample ID P-1
Sample Matrix Water
Sample Date 8/26/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B	8/28/2015	8/28/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B	8/28/2015	8/28/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B	8/28/2015	8/28/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B	8/28/2015	8/28/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B	8/28/2015	8/28/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B	8/28/2015	8/28/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B	8/28/2015	8/28/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B	8/28/2015	8/28/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B	8/28/2015	8/28/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B	8/28/2015	8/28/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B	8/28/2015	8/28/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B	8/28/2015	8/28/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B	8/28/2015	8/28/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B	8/28/2015	8/28/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B	8/28/2015	8/28/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B	8/28/2015	8/28/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B	8/28/2015	8/28/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B	8/28/2015	8/28/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B	8/28/2015	8/28/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B	8/28/2015	8/28/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B	8/28/2015	8/28/2015	CJR	1
1,1-Dichloroethane	1.77 "J"	ug/l	1.1	3.6	1	8260B	8/28/2015	8/28/2015	CJR	1
1,1-Dichloroethene	0.76 "J"	ug/l	0.65	2.1	1	8260B	8/28/2015	8/28/2015	CJR	1
cis-1,2-Dichloroethene	880	ug/l	4.5	14	10	8260B	8/31/2015	8/31/2015	CJR	1
trans-1,2-Dichloroethene	4.7	ug/l	0.54	1.7	1	8260B	8/28/2015	8/28/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B	8/28/2015	8/28/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B	8/28/2015	8/28/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B	8/28/2015	8/28/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B	8/28/2015	8/28/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B	8/28/2015	8/28/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B	8/28/2015	8/28/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B	8/28/2015	8/28/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B	8/28/2015	8/28/2015	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E29560

Lab Code 5029560A
Sample ID P-1
Sample Matrix Water
Sample Date 8/26/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B	8/28/2015	8/28/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B	8/28/2015	8/28/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B	8/28/2015	8/28/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B	8/28/2015	8/28/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B	8/28/2015	8/28/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B	8/28/2015	8/28/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B	8/28/2015	8/28/2015	CJR	1
Tetrachloroethene	1.88	ug/l	0.49	1.5	1	8260B	8/28/2015	8/28/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B	8/28/2015	8/28/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B	8/28/2015	8/28/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B	8/28/2015	8/28/2015	CJR	1
1,1,1-Trichloroethane	19.2	ug/l	0.84	2.7	1	8260B	8/28/2015	8/28/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B	8/28/2015	8/28/2015	CJR	1
Trichloroethene (TCE)	105	ug/l	0.47	1.5	1	8260B	8/28/2015	8/28/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B	8/28/2015	8/28/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B	8/28/2015	8/28/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B	8/28/2015	8/28/2015	CJR	1
Vinyl Chloride	0.60	ug/l	0.17	0.54	1	8260B	8/28/2015	8/28/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B	8/28/2015	8/28/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B	8/28/2015	8/28/2015	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B	8/28/2015	8/28/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B	8/28/2015	8/28/2015	CJR	1
SUR - 4-Bromofluorobenzene	105	REC %			1	8260B	8/28/2015	8/28/2015	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B	8/28/2015	8/28/2015	CJR	1

Lab Code 5029560B
 Sample ID P-2
 Sample Matrix Water
 Sample Date 8/26/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		8/28/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		8/28/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		8/28/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		8/28/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		8/28/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		8/28/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		8/28/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		8/28/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		8/28/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		8/28/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		8/28/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		8/28/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		8/28/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		8/28/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		8/28/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		8/28/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		8/28/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		8/28/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		8/28/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/28/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/28/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		8/28/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		8/28/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		8/28/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		8/28/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		8/28/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		8/28/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		8/28/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		8/28/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		8/28/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		8/28/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		8/28/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		8/28/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		8/28/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		8/28/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		8/28/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		8/28/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		8/28/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		8/28/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/28/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		8/28/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		8/28/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		8/28/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		8/28/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		8/28/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		8/28/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		8/28/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/28/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		8/28/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		8/28/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		8/28/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		8/28/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		8/28/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		8/28/2015	CJR	1
SUR - 4-Bromofluorobenzene	106	REC %			1	8260B		8/28/2015	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		8/28/2015	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		8/28/2015	CJR	1

Lab Code 5029560C
 Sample ID P-3
 Sample Matrix Water
 Sample Date 8/26/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	0.75 "J"	ug/l	0.44	1.4	1	8260B		8/28/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		8/28/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		8/28/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		8/28/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		8/28/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		8/28/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		8/28/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		8/28/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		8/28/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		8/28/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		8/28/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		8/28/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		8/28/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		8/28/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		8/28/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		8/28/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		8/28/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		8/28/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		8/28/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/28/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/28/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		8/28/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		8/28/2015	CJR	1
cis-1,2-Dichloroethene	38	ug/l	0.45	1.4	1	8260B		8/28/2015	CJR	1
trans-1,2-Dichloroethene	46	ug/l	0.54	1.7	1	8260B		8/28/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		8/28/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		8/28/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		8/28/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		8/28/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		8/28/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		8/28/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		8/28/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		8/28/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		8/28/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		8/28/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		8/28/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		8/28/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		8/28/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		8/28/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/28/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		8/28/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		8/28/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		8/28/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		8/28/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		8/28/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		8/28/2015	CJR	1
Trichloroethene (TCE)	46	ug/l	0.47	1.5	1	8260B		8/28/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/28/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		8/28/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		8/28/2015	CJR	1
Vinyl Chloride	0.27 "J"	ug/l	0.17	0.54	1	8260B		8/28/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		8/28/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		8/28/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		8/28/2015	CJR	1
SUR - 4-Bromofluorobenzene	107	REC %			1	8260B		8/28/2015	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		8/28/2015	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		8/28/2015	CJR	1

Lab Code 5029560D
 Sample ID P-4
 Sample Matrix Water
 Sample Date 8/26/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 220	ug/l	220	700	500	8260B		8/31/2015	CJR	1
Bromobenzene	< 240	ug/l	240	750	500	8260B		8/31/2015	CJR	1
Bromodichloromethane	< 230	ug/l	230	750	500	8260B		8/31/2015	CJR	1
Bromoform	< 230	ug/l	230	750	500	8260B		8/31/2015	CJR	1
tert-Butylbenzene	< 550	ug/l	550	1700	500	8260B		8/31/2015	CJR	1
sec-Butylbenzene	< 600	ug/l	600	1900	500	8260B		8/31/2015	CJR	1
n-Butylbenzene	< 500	ug/l	500	1650	500	8260B		8/31/2015	CJR	1
Carbon Tetrachloride	< 255	ug/l	255	800	500	8260B		8/31/2015	CJR	1
Chlorobenzene	< 230	ug/l	230	700	500	8260B		8/31/2015	CJR	1
Chloroethane	< 325	ug/l	325	1050	500	8260B		8/31/2015	CJR	1
Chloroform	< 215	ug/l	215	700	500	8260B		8/31/2015	CJR	1
Chloromethane	< 950	ug/l	950	3000	500	8260B		8/31/2015	CJR	1
2-Chlorotoluene	< 200	ug/l	200	650	500	8260B		8/31/2015	CJR	1
4-Chlorotoluene	< 315	ug/l	315	1000	500	8260B		8/31/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 700	ug/l	700	2250	500	8260B		8/31/2015	CJR	1
Dibromochloromethane	< 225	ug/l	225	700	500	8260B		8/31/2015	CJR	1
1,4-Dichlorobenzene	< 245	ug/l	245	800	500	8260B		8/31/2015	CJR	1
1,3-Dichlorobenzene	< 260	ug/l	260	800	500	8260B		8/31/2015	CJR	1
1,2-Dichlorobenzene	< 230	ug/l	230	750	500	8260B		8/31/2015	CJR	1
Dichlorodifluoromethane	< 435	ug/l	435	1400	500	8260B		8/31/2015	CJR	1
1,2-Dichloroethane	< 240	ug/l	240	750	500	8260B		8/31/2015	CJR	1
1,1-Dichloroethane	< 550	ug/l	550	1800	500	8260B		8/31/2015	CJR	1
1,1-Dichloroethene	< 325	ug/l	325	1050	500	8260B		8/31/2015	CJR	1
cis-1,2-Dichloroethene	24000	ug/l	225	700	500	8260B		8/31/2015	CJR	1
trans-1,2-Dichloroethene	< 270	ug/l	270	850	500	8260B		8/31/2015	CJR	1
1,2-Dichloropropane	< 215	ug/l	215	685	500	8260B		8/31/2015	CJR	1
2,2-Dichloropropane	< 1550	ug/l	1550	4900	500	8260B		8/31/2015	CJR	1
1,3-Dichloropropane	< 210	ug/l	210	650	500	8260B		8/31/2015	CJR	1
Di-isopropyl ether	< 220	ug/l	220	700	500	8260B		8/31/2015	CJR	1
EDB (1,2-Dibromoethane)	< 315	ug/l	315	1000	500	8260B		8/31/2015	CJR	1
Ethylbenzene	< 355	ug/l	355	1150	500	8260B		8/31/2015	CJR	1
Hexachlorobutadiene	< 1100	ug/l	1100	3550	500	8260B		8/31/2015	CJR	1
Isopropylbenzene	< 410	ug/l	410	1300	500	8260B		8/31/2015	CJR	1
p-Isopropyltoluene	< 550	ug/l	550	1750	500	8260B		8/31/2015	CJR	1
Methylene chloride	< 650	ug/l	650	2100	500	8260B		8/31/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 550	ug/l	550	1850	500	8260B		8/31/2015	CJR	1
Naphthalene	< 800	ug/l	800	2600	500	8260B		8/31/2015	CJR	1
n-Propylbenzene	< 385	ug/l	385	1200	500	8260B		8/31/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 260	ug/l	260	850	500	8260B		8/31/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 240	ug/l	240	750	500	8260B		8/31/2015	CJR	1
Tetrachloroethene	< 245	ug/l	245	750	500	8260B		8/31/2015	CJR	1
Toluene	240 "J"	ug/l	220	700	500	8260B		8/31/2015	CJR	1
1,2,4-Trichlorobenzene	< 850	ug/l	850	2800	500	8260B		8/31/2015	CJR	1
1,2,3-Trichlorobenzene	< 1350	ug/l	1350	4300	500	8260B		8/31/2015	CJR	1
1,1,1-Trichloroethane	< 420	ug/l	420	1350	500	8260B		8/31/2015	CJR	1
1,1,2-Trichloroethane	< 240	ug/l	240	760	500	8260B		8/31/2015	CJR	1
Trichloroethene (TCE)	< 235	ug/l	235	750	500	8260B		8/31/2015	CJR	1
Trichlorofluoromethane	< 435	ug/l	435	1400	500	8260B		8/31/2015	CJR	1
1,2,4-Trimethylbenzene	< 800	ug/l	800	2500	500	8260B		8/31/2015	CJR	1
1,3,5-Trimethylbenzene	< 750	ug/l	750	2400	500	8260B		8/31/2015	CJR	1
Vinyl Chloride	4900	ug/l	85	270	500	8260B		8/31/2015	CJR	1
m&p-Xylene	< 1100	ug/l	1100	3450	500	8260B		8/31/2015	CJR	1
o-Xylene	< 450	ug/l	450	1450	500	8260B		8/31/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %				500	8260B	8/31/2015	CJR	1
SUR - 4-Bromofluorobenzene	107	REC %				500	8260B	8/31/2015	CJR	1
SUR - Dibromofluoromethane	99	REC %				500	8260B	8/31/2015	CJR	1
SUR - Toluene-d8	102	REC %				500	8260B	8/31/2015	CJR	1

Lab Code 5029560E
 Sample ID P-5
 Sample Matrix Water
 Sample Date 8/26/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	78 "J"	ug/l	44	140	100	8260B		8/31/2015	CJR	1
Bromobenzene	< 48	ug/l	48	150	100	8260B		8/31/2015	CJR	1
Bromodichloromethane	< 46	ug/l	46	150	100	8260B		8/31/2015	CJR	1
Bromoform	< 46	ug/l	46	150	100	8260B		8/31/2015	CJR	1
tert-Butylbenzene	< 110	ug/l	110	340	100	8260B		8/31/2015	CJR	1
sec-Butylbenzene	< 120	ug/l	120	380	100	8260B		8/31/2015	CJR	1
n-Butylbenzene	< 100	ug/l	100	330	100	8260B		8/31/2015	CJR	1
Carbon Tetrachloride	< 51	ug/l	51	160	100	8260B		8/31/2015	CJR	1
Chlorobenzene	< 46	ug/l	46	140	100	8260B		8/31/2015	CJR	1
Chloroethane	< 65	ug/l	65	210	100	8260B		8/31/2015	CJR	1
Chloroform	< 43	ug/l	43	140	100	8260B		8/31/2015	CJR	1
Chloromethane	< 190	ug/l	190	600	100	8260B		8/31/2015	CJR	1
2-Chlorotoluene	< 40	ug/l	40	130	100	8260B		8/31/2015	CJR	1
4-Chlorotoluene	< 63	ug/l	63	200	100	8260B		8/31/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 140	ug/l	140	450	100	8260B		8/31/2015	CJR	1
Dibromochloromethane	< 45	ug/l	45	140	100	8260B		8/31/2015	CJR	1
1,4-Dichlorobenzene	< 49	ug/l	49	160	100	8260B		8/31/2015	CJR	1
1,3-Dichlorobenzene	< 52	ug/l	52	160	100	8260B		8/31/2015	CJR	1
1,2-Dichlorobenzene	< 46	ug/l	46	150	100	8260B		8/31/2015	CJR	1
Dichlorodifluoromethane	< 87	ug/l	87	280	100	8260B		8/31/2015	CJR	1
1,2-Dichloroethane	< 48	ug/l	48	150	100	8260B		8/31/2015	CJR	1
1,1-Dichloroethane	< 110	ug/l	110	360	100	8260B		8/31/2015	CJR	1
1,1-Dichloroethene	< 65	ug/l	65	210	100	8260B		8/31/2015	CJR	1
cis-1,2-Dichloroethene	3000	ug/l	45	140	100	8260B		8/31/2015	CJR	1
trans-1,2-Dichloroethene	< 54	ug/l	54	170	100	8260B		8/31/2015	CJR	1
1,2-Dichloropropane	< 43	ug/l	43	137	100	8260B		8/31/2015	CJR	1
2,2-Dichloropropane	< 310	ug/l	310	980	100	8260B		8/31/2015	CJR	1
1,3-Dichloropropane	< 42	ug/l	42	130	100	8260B		8/31/2015	CJR	1
Di-isopropyl ether	< 44	ug/l	44	140	100	8260B		8/31/2015	CJR	1
EDB (1,2-Dibromoethane)	< 63	ug/l	63	200	100	8260B		8/31/2015	CJR	1
Ethylbenzene	< 71	ug/l	71	230	100	8260B		8/31/2015	CJR	1
Hexachlorobutadiene	< 220	ug/l	220	710	100	8260B		8/31/2015	CJR	1
Isopropylbenzene	< 82	ug/l	82	260	100	8260B		8/31/2015	CJR	1
p-Isopropyltoluene	< 110	ug/l	110	350	100	8260B		8/31/2015	CJR	1
Methylene chloride	< 130	ug/l	130	420	100	8260B		8/31/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 110	ug/l	110	370	100	8260B		8/31/2015	CJR	1
Naphthalene	< 160	ug/l	160	520	100	8260B		8/31/2015	CJR	1
n-Propylbenzene	< 77	ug/l	77	240	100	8260B		8/31/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 52	ug/l	52	170	100	8260B		8/31/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 48	ug/l	48	150	100	8260B		8/31/2015	CJR	1
Tetrachloroethene	< 49	ug/l	49	150	100	8260B		8/31/2015	CJR	1
Toluene	168	ug/l	44	140	100	8260B		8/31/2015	CJR	1
1,2,4-Trichlorobenzene	< 170	ug/l	170	560	100	8260B		8/31/2015	CJR	1
1,2,3-Trichlorobenzene	< 270	ug/l	270	860	100	8260B		8/31/2015	CJR	1
1,1,1-Trichloroethane	< 84	ug/l	84	270	100	8260B		8/31/2015	CJR	1
1,1,2-Trichloroethane	< 48	ug/l	48	152	100	8260B		8/31/2015	CJR	1
Trichloroethene (TCE)	< 47	ug/l	47	150	100	8260B		8/31/2015	CJR	1
Trichlorofluoromethane	< 87	ug/l	87	280	100	8260B		8/31/2015	CJR	1
1,2,4-Trimethylbenzene	< 160	ug/l	160	500	100	8260B		8/31/2015	CJR	1
1,3,5-Trimethylbenzene	< 150	ug/l	150	480	100	8260B		8/31/2015	CJR	1
Vinyl Chloride	4000	ug/l	17	54	100	8260B		8/31/2015	CJR	1
m&p-Xylene	< 220	ug/l	220	690	100	8260B		8/31/2015	CJR	1
o-Xylene	< 90	ug/l	90	290	100	8260B		8/31/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %				8260B		8/31/2015	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %				8260B		8/31/2015	CJR	1
SUR - Dibromofluoromethane	100	REC %				8260B		8/31/2015	CJR	1
SUR - Toluene-d8	103	REC %				8260B		8/31/2015	CJR	1

Lab Code 5029560F
 Sample ID P-6
 Sample Matrix Water
 Sample Date 8/26/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	75 "J"	ug/l	44	140	100	8260B		9/1/2015	CJR	1
Bromobenzene	< 48	ug/l	48	150	100	8260B		9/1/2015	CJR	1
Bromodichloromethane	< 46	ug/l	46	150	100	8260B		9/1/2015	CJR	1
Bromoform	< 46	ug/l	46	150	100	8260B		9/1/2015	CJR	1
tert-Butylbenzene	< 110	ug/l	110	340	100	8260B		9/1/2015	CJR	1
sec-Butylbenzene	< 120	ug/l	120	380	100	8260B		9/1/2015	CJR	1
n-Butylbenzene	< 100	ug/l	100	330	100	8260B		9/1/2015	CJR	1
Carbon Tetrachloride	< 51	ug/l	51	160	100	8260B		9/1/2015	CJR	1
Chlorobenzene	< 46	ug/l	46	140	100	8260B		9/1/2015	CJR	1
Chloroethane	< 65	ug/l	65	210	100	8260B		9/1/2015	CJR	1
Chloroform	< 43	ug/l	43	140	100	8260B		9/1/2015	CJR	1
Chloromethane	< 190	ug/l	190	600	100	8260B		9/1/2015	CJR	1
2-Chlorotoluene	< 40	ug/l	40	130	100	8260B		9/1/2015	CJR	1
4-Chlorotoluene	< 63	ug/l	63	200	100	8260B		9/1/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 140	ug/l	140	450	100	8260B		9/1/2015	CJR	1
Dibromochloromethane	< 45	ug/l	45	140	100	8260B		9/1/2015	CJR	1
1,4-Dichlorobenzene	< 49	ug/l	49	160	100	8260B		9/1/2015	CJR	1
1,3-Dichlorobenzene	< 52	ug/l	52	160	100	8260B		9/1/2015	CJR	1
1,2-Dichlorobenzene	< 46	ug/l	46	150	100	8260B		9/1/2015	CJR	1
Dichlorodifluoromethane	< 87	ug/l	87	280	100	8260B		9/1/2015	CJR	1
1,2-Dichloroethane	< 48	ug/l	48	150	100	8260B		9/1/2015	CJR	1
1,1-Dichloroethane	< 110	ug/l	110	360	100	8260B		9/1/2015	CJR	1
1,1-Dichloroethene	< 65	ug/l	65	210	100	8260B		9/1/2015	CJR	1
cis-1,2-Dichloroethene	3900	ug/l	45	140	100	8260B		9/1/2015	CJR	1
trans-1,2-Dichloroethene	< 54	ug/l	54	170	100	8260B		9/1/2015	CJR	1
1,2-Dichloropropane	< 43	ug/l	43	137	100	8260B		9/1/2015	CJR	1
2,2-Dichloropropane	< 310	ug/l	310	980	100	8260B		9/1/2015	CJR	1
1,3-Dichloropropane	< 42	ug/l	42	130	100	8260B		9/1/2015	CJR	1
Di-isopropyl ether	< 44	ug/l	44	140	100	8260B		9/1/2015	CJR	1
EDB (1,2-Dibromoethane)	< 63	ug/l	63	200	100	8260B		9/1/2015	CJR	1
Ethylbenzene	< 71	ug/l	71	230	100	8260B		9/1/2015	CJR	1
Hexachlorobutadiene	< 220	ug/l	220	710	100	8260B		9/1/2015	CJR	1
Isopropylbenzene	< 82	ug/l	82	260	100	8260B		9/1/2015	CJR	1
p-Isopropyltoluene	< 110	ug/l	110	350	100	8260B		9/1/2015	CJR	1
Methylene chloride	< 130	ug/l	130	420	100	8260B		9/1/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 110	ug/l	110	370	100	8260B		9/1/2015	CJR	1
Naphthalene	< 160	ug/l	160	520	100	8260B		9/1/2015	CJR	1
n-Propylbenzene	< 77	ug/l	77	240	100	8260B		9/1/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 52	ug/l	52	170	100	8260B		9/1/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 48	ug/l	48	150	100	8260B		9/1/2015	CJR	1
Tetrachloroethene	< 49	ug/l	49	150	100	8260B		9/1/2015	CJR	1
Toluene	71 "J"	ug/l	44	140	100	8260B		9/1/2015	CJR	1
1,2,4-Trichlorobenzene	< 170	ug/l	170	560	100	8260B		9/1/2015	CJR	1
1,2,3-Trichlorobenzene	< 270	ug/l	270	860	100	8260B		9/1/2015	CJR	1
1,1,1-Trichloroethane	< 84	ug/l	84	270	100	8260B		9/1/2015	CJR	1
1,1,2-Trichloroethane	< 48	ug/l	48	152	100	8260B		9/1/2015	CJR	1
Trichloroethene (TCE)	< 47	ug/l	47	150	100	8260B		9/1/2015	CJR	1
Trichlorofluoromethane	< 87	ug/l	87	280	100	8260B		9/1/2015	CJR	1
1,2,4-Trimethylbenzene	< 160	ug/l	160	500	100	8260B		9/1/2015	CJR	1
1,3,5-Trimethylbenzene	< 150	ug/l	150	480	100	8260B		9/1/2015	CJR	1
Vinyl Chloride	3120	ug/l	17	54	100	8260B		9/1/2015	CJR	1
m&p-Xylene	< 220	ug/l	220	690	100	8260B		9/1/2015	CJR	1
o-Xylene	< 90	ug/l	90	290	100	8260B		9/1/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %				100	8260B	9/1/2015	CJR	1
SUR - 4-Bromofluorobenzene	106	REC %				100	8260B	9/1/2015	CJR	1
SUR - Dibromofluoromethane	102	REC %				100	8260B	9/1/2015	CJR	1
SUR - Toluene-d8	102	REC %				100	8260B	9/1/2015	CJR	1

Lab Code 5029560G
 Sample ID P-7
 Sample Matrix Water
 Sample Date 8/26/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		8/31/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		8/31/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		8/31/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		8/31/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		8/31/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		8/31/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		8/31/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		8/31/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		8/31/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		8/31/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		8/31/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		8/31/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		8/31/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		8/31/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		8/31/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		8/31/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		8/31/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		8/31/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		8/31/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/31/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/31/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		8/31/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		8/31/2015	CJR	1
cis-1,2-Dichloroethene	63	ug/l	0.45	1.4	1	8260B		8/31/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		8/31/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		8/31/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		8/31/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		8/31/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		8/31/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		8/31/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		8/31/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		8/31/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		8/31/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		8/31/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		8/31/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		8/31/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		8/31/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		8/31/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		8/31/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/31/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		8/31/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		8/31/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		8/31/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		8/31/2015	CJR	1
1,1,1-Trichloroethane	4.7	ug/l	0.84	2.7	1	8260B		8/31/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		8/31/2015	CJR	1
Trichloroethene (TCE)	25	ug/l	0.47	1.5	1	8260B		8/31/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/31/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		8/31/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		8/31/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		8/31/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		8/31/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		8/31/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		8/31/2015	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		8/31/2015	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		8/31/2015	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		8/31/2015	CJR	1

Lab Code 5029560H
 Sample ID P-8
 Sample Matrix Water
 Sample Date 8/26/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		8/31/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		8/31/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		8/31/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		8/31/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		8/31/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		8/31/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		8/31/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		8/31/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		8/31/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		8/31/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		8/31/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		8/31/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		8/31/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		8/31/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		8/31/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		8/31/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		8/31/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		8/31/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		8/31/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/31/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/31/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		8/31/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		8/31/2015	CJR	1
cis-1,2-Dichloroethene	35	ug/l	0.45	1.4	1	8260B		8/31/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		8/31/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		8/31/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		8/31/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		8/31/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		8/31/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		8/31/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		8/31/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		8/31/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		8/31/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		8/31/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		8/31/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		8/31/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		8/31/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		8/31/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		8/31/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/31/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		8/31/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		8/31/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		8/31/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		8/31/2015	CJR	1
1,1,1-Trichloroethane	3.5	ug/l	0.84	2.7	1	8260B		8/31/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		8/31/2015	CJR	1
Trichloroethene (TCE)	44	ug/l	0.47	1.5	1	8260B		8/31/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/31/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		8/31/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		8/31/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		8/31/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		8/31/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		8/31/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	106	REC %			1	8260B		8/31/2015	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		8/31/2015	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		8/31/2015	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		8/31/2015	CJR	1

Lab Code 5029560I
 Sample ID P-9
 Sample Matrix Water
 Sample Date 8/26/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		8/31/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		8/31/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		8/31/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		8/31/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		8/31/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		8/31/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		8/31/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		8/31/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		8/31/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		8/31/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		8/31/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		8/31/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		8/31/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		8/31/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		8/31/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		8/31/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		8/31/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		8/31/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		8/31/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/31/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/31/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		8/31/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		8/31/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		8/31/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		8/31/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		8/31/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		8/31/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		8/31/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		8/31/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		8/31/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		8/31/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		8/31/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		8/31/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		8/31/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		8/31/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		8/31/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		8/31/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		8/31/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		8/31/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/31/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		8/31/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		8/31/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		8/31/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		8/31/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		8/31/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		8/31/2015	CJR	1
Trichloroethene (TCE)	2.64	ug/l	0.47	1.5	1	8260B		8/31/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/31/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		8/31/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		8/31/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		8/31/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		8/31/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		8/31/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		8/31/2015	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		8/31/2015	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		8/31/2015	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		8/31/2015	CJR	1

Lab Code 5029560J
 Sample ID P-10
 Sample Matrix Water
 Sample Date 8/26/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		8/31/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		8/31/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		8/31/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		8/31/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		8/31/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		8/31/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		8/31/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		8/31/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		8/31/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		8/31/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		8/31/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		8/31/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		8/31/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		8/31/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		8/31/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		8/31/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		8/31/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		8/31/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		8/31/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/31/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/31/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		8/31/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		8/31/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		8/31/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		8/31/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		8/31/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		8/31/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		8/31/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		8/31/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		8/31/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		8/31/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		8/31/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		8/31/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		8/31/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		8/31/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		8/31/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		8/31/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		8/31/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		8/31/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/31/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		8/31/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		8/31/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		8/31/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		8/31/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		8/31/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		8/31/2015	CJR	1
Trichloroethene (TCE)	2.82	ug/l	0.47	1.5	1	8260B		8/31/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/31/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		8/31/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		8/31/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		8/31/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		8/31/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		8/31/2015	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		8/31/2015	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		8/31/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	106	REC %			1	8260B		8/31/2015	CJR	1
SUR - 4-Bromofluorobenzene	106	REC %			1	8260B		8/31/2015	CJR	1

Lab Code 5029560K
 Sample ID P-11
 Sample Matrix Water
 Sample Date 8/26/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		8/28/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		8/28/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		8/28/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		8/28/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		8/28/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		8/28/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		8/28/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		8/28/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		8/28/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		8/28/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		8/28/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		8/28/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		8/28/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		8/28/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		8/28/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		8/28/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		8/28/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		8/28/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		8/28/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/28/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/28/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		8/28/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		8/28/2015	CJR	1
cis-1,2-Dichloroethene	1.75	ug/l	0.45	1.4	1	8260B		8/28/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		8/28/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		8/28/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		8/28/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		8/28/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		8/28/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		8/28/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		8/28/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		8/28/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		8/28/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		8/28/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		8/28/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		8/28/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		8/28/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		8/28/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		8/28/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/28/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		8/28/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		8/28/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		8/28/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		8/28/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		8/28/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		8/28/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		8/28/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/28/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		8/28/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		8/28/2015	CJR	1
Vinyl Chloride	0.24 "J"	ug/l	0.17	0.54	1	8260B		8/28/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		8/28/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		8/28/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	111	REC %			1	8260B		8/28/2015	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		8/28/2015	CJR	1
SUR - Dibromofluoromethane	110	REC %			1	8260B		8/28/2015	CJR	1
SUR - 4-Bromofluorobenzene	106	REC %			1	8260B		8/28/2015	CJR	1

Lab Code 5029560L
 Sample ID P-1 DUP
 Sample Matrix Water
 Sample Date 8/26/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		8/28/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		8/28/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		8/28/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		8/28/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		8/28/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		8/28/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		8/28/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		8/28/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		8/28/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		8/28/2015	CJR	1
Chloroform	0.51 "J"	ug/l	0.43	1.4	1	8260B		8/28/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		8/28/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		8/28/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		8/28/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		8/28/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		8/28/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		8/28/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		8/28/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		8/28/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/28/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/28/2015	CJR	1
1,1-Dichloroethane	2.46 "J"	ug/l	1.1	3.6	1	8260B		8/28/2015	CJR	1
1,1-Dichloroethene	1.03 "J"	ug/l	0.65	2.1	1	8260B		8/28/2015	CJR	1
cis-1,2-Dichloroethene	920	ug/l	4.5	14	10	8260B		8/31/2015	CJR	1
trans-1,2-Dichloroethene	3.6	ug/l	0.54	1.7	1	8260B		8/28/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		8/28/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		8/28/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		8/28/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		8/28/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		8/28/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		8/28/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		8/28/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		8/28/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		8/28/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		8/28/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		8/28/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		8/28/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		8/28/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		8/28/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/28/2015	CJR	1
Tetrachloroethene	1.93	ug/l	0.49	1.5	1	8260B		8/28/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		8/28/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		8/28/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		8/28/2015	CJR	1
1,1,1-Trichloroethane	23.6	ug/l	0.84	2.7	1	8260B		8/28/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		8/28/2015	CJR	1
Trichloroethene (TCE)	106	ug/l	0.47	1.5	1	8260B		8/28/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/28/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		8/28/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		8/28/2015	CJR	1
Vinyl Chloride	0.75	ug/l	0.17	0.54	1	8260B		8/28/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		8/28/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		8/28/2015	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		8/28/2015	CJR	1
SUR - Dibromofluoromethane	115	REC %			1	8260B		8/28/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	120	REC %			1	8260B		8/28/2015	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		8/28/2015	CJR	1

Lab Code 5029560M
 Sample ID TRIP BLANK
 Sample Matrix Water
 Sample Date 8/26/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		8/28/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		8/28/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		8/28/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		8/28/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		8/28/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		8/28/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		8/28/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		8/28/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		8/28/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		8/28/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		8/28/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		8/28/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		8/28/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		8/28/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		8/28/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		8/28/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		8/28/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		8/28/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		8/28/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/28/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/28/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		8/28/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		8/28/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		8/28/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		8/28/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		8/28/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		8/28/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		8/28/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		8/28/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		8/28/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		8/28/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		8/28/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		8/28/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		8/28/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		8/28/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		8/28/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		8/28/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		8/28/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		8/28/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		8/28/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		8/28/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		8/28/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		8/28/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		8/28/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		8/28/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		8/28/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		8/28/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		8/28/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		8/28/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		8/28/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		8/28/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		8/28/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		8/28/2015	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		8/28/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		8/28/2015	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		8/28/2015	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		8/28/2015	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

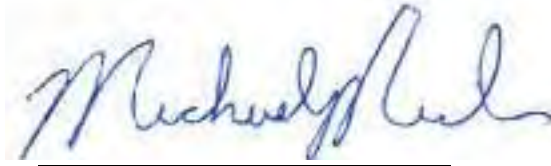
LOQ Limit of Quantitation

Code *Comment*

1 Laboratory QC within limits.

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



A handwritten signature in blue ink, appearing to read "Michael J. Paul", is written over a horizontal line.

Lab I.D. # _____ Quote No.: _____
 Account No.: _____
 Project #: _____
 Sampler: (signature) *Jordan J*
 Project (Name / Location): **Newton Gravel Pit / Manitowoc, WI**
 Reports To: **DAVE HENDERSON**
 Company: **AECOM**
 Address: **1555 N. RiverCenter Dr. STEADY**
 City State Zip: **Milwaukee, WI 53212**
 Phone: **414-944-6190**
 FAX: **414-944-6081**

Invoice To: **DAVE HENDERSON**
 Company: **SAME**
 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
5029560A	P-1	8/4/15 9:00	X	X	N	3	GW	HCl
B	P-2	940	X	X	N	3	GW	HCl
C	P-3	1025	X	X	N	3	GW	HCl
D	P-4	1230	X	X	N	3	GW	HCl
E	P-5	1200	X	X	N	3	GW	HCl
F	P-6	1150	X	X	N	3	GW	HCl
G	P-7	1330	X	X	N	3	GW	HCl
H	P-8	1405	X	X	N	3	GW	HCl
I	P-9	1440	X	X	N	3	GW	HCl
J	P-10	1515	X	X	N	3	GW	HCl

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

Analysis per Contract

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

Analysis Requested	Other Analysis
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)	X
B-RCPRA METALS	X

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

Retinguished By: (sign) *Jordan J* Time **0900** Date **8/27/15**
 Received By: (sign) _____ Time: **8:00** Date: **8/28/15**

Received in Laboratory By: *Christy P...*

Lab I.D. # _____ Quote No.: _____
 Account No.: _____
 Project #: _____
 Sampler: (signature) *Jordan J*
 Project (Name / Location): *Forbes Newton Grand Pit / Manitowish, WI*
 Reports To: *DAVE HENDERSON*
 Company: *AECOM*
 Address: *1555 N. RiverCenter Dr. STE 214*
 City State Zip: *Milwaukee, WI 53212*
 Phone: *414-944-6190*
 FAX: *414-944-6081*

Invoice To: *PAVE HENDERSON*
 Company: *SAME*
 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
S0295606	P-11	8/24/15	1100	x	x	N	3	GW	HCl
L	P-1 Dup	900		x	x	N	3	GW	HCl
M	Trip Blank	800		x	x	N	3	GW	HCl

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

Analysis per Contract

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

Retrieved By: (signature) *Jordan J* Date: *8/27/15* Time: *0900*
 Received By: (signature) *Christopher J. Row* Date: *8/28/15* Time: *8:00*

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

Analysis Requested	Other Analysis
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)	X
8-RCRA METALS	X

PID/
FID

Synergy Environmental Lab, INC.

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

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Report Date 22-Sep-15

Project Name NEWTON PIT
Project # 60135471

Invoice # E29682

Lab Code 5029682A
Sample ID P-1
Sample Matrix Water
Sample Date 9/15/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 22	ug/l	22	70	50	8260B	9/18/2015	9/18/2015	CJR	1
Bromobenzene	< 24	ug/l	24	75	50	8260B	9/18/2015	9/18/2015	CJR	1
Bromodichloromethane	< 23	ug/l	23	75	50	8260B	9/18/2015	9/18/2015	CJR	1
Bromoform	< 23	ug/l	23	75	50	8260B	9/18/2015	9/18/2015	CJR	1
tert-Butylbenzene	< 55	ug/l	55	170	50	8260B	9/18/2015	9/18/2015	CJR	1
sec-Butylbenzene	< 60	ug/l	60	190	50	8260B	9/18/2015	9/18/2015	CJR	1
n-Butylbenzene	< 50	ug/l	50	165	50	8260B	9/18/2015	9/18/2015	CJR	1
Carbon Tetrachloride	< 25.5	ug/l	25.5	80	50	8260B	9/18/2015	9/18/2015	CJR	1
Chlorobenzene	< 23	ug/l	23	70	50	8260B	9/18/2015	9/18/2015	CJR	1
Chloroethane	< 32.5	ug/l	32.5	105	50	8260B	9/18/2015	9/18/2015	CJR	1
Chloroform	< 21.5	ug/l	21.5	70	50	8260B	9/18/2015	9/18/2015	CJR	1
Chloromethane	< 95	ug/l	95	300	50	8260B	9/18/2015	9/18/2015	CJR	1
2-Chlorotoluene	< 20	ug/l	20	65	50	8260B	9/18/2015	9/18/2015	CJR	1
4-Chlorotoluene	< 31.5	ug/l	31.5	100	50	8260B	9/18/2015	9/18/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 70	ug/l	70	225	50	8260B	9/18/2015	9/18/2015	CJR	1
Dibromochloromethane	< 22.5	ug/l	22.5	70	50	8260B	9/18/2015	9/18/2015	CJR	1
1,4-Dichlorobenzene	< 24.5	ug/l	24.5	80	50	8260B	9/18/2015	9/18/2015	CJR	1
1,3-Dichlorobenzene	< 26	ug/l	26	80	50	8260B	9/18/2015	9/18/2015	CJR	1
1,2-Dichlorobenzene	< 23	ug/l	23	75	50	8260B	9/18/2015	9/18/2015	CJR	1
Dichlorodifluoromethane	< 43.5	ug/l	43.5	140	50	8260B	9/18/2015	9/18/2015	CJR	1
1,2-Dichloroethane	< 24	ug/l	24	75	50	8260B	9/18/2015	9/18/2015	CJR	1
1,1-Dichloroethane	< 55	ug/l	55	180	50	8260B	9/18/2015	9/18/2015	CJR	1
1,1-Dichloroethene	< 32.5	ug/l	32.5	105	50	8260B	9/18/2015	9/18/2015	CJR	1
cis-1,2-Dichloroethene	840	ug/l	22.5	70	50	8260B	9/18/2015	9/18/2015	CJR	1
trans-1,2-Dichloroethene	< 27	ug/l	27	85	50	8260B	9/18/2015	9/18/2015	CJR	1
1,2-Dichloropropane	< 21.5	ug/l	21.5	68.5	50	8260B	9/18/2015	9/18/2015	CJR	1
2,2-Dichloropropane	< 155	ug/l	155	490	50	8260B	9/18/2015	9/18/2015	CJR	1
1,3-Dichloropropane	< 21	ug/l	21	65	50	8260B	9/18/2015	9/18/2015	CJR	1
Di-isopropyl ether	< 22	ug/l	22	70	50	8260B	9/18/2015	9/18/2015	CJR	1
EDB (1,2-Dibromoethane)	< 31.5	ug/l	31.5	100	50	8260B	9/18/2015	9/18/2015	CJR	1
Ethylbenzene	< 35.5	ug/l	35.5	115	50	8260B	9/18/2015	9/18/2015	CJR	1
Hexachlorobutadiene	< 110	ug/l	110	355	50	8260B	9/18/2015	9/18/2015	CJR	1
Isopropylbenzene	< 41	ug/l	41	130	50	8260B	9/18/2015	9/18/2015	CJR	1

Project Name NEWTON PIT
Project # 60135471

Invoice # E29682

Lab Code 5029682A
Sample ID P-1
Sample Matrix Water
Sample Date 9/15/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 55	ug/l	55	175	50	8260B		9/18/2015	CJR	1
Methylene chloride	< 65	ug/l	65	210	50	8260B		9/18/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 55	ug/l	55	185	50	8260B		9/18/2015	CJR	1
Naphthalene	< 80	ug/l	80	260	50	8260B		9/18/2015	CJR	1
n-Propylbenzene	< 38.5	ug/l	38.5	120	50	8260B		9/18/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 26	ug/l	26	85	50	8260B		9/18/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 24	ug/l	24	75	50	8260B		9/18/2015	CJR	1
Tetrachloroethene	< 24.5	ug/l	24.5	75	50	8260B		9/18/2015	CJR	1
Toluene	< 22	ug/l	22	70	50	8260B		9/18/2015	CJR	1
1,2,4-Trichlorobenzene	< 85	ug/l	85	280	50	8260B		9/18/2015	CJR	1
1,2,3-Trichlorobenzene	< 135	ug/l	135	430	50	8260B		9/18/2015	CJR	1
1,1,1-Trichloroethane	< 42	ug/l	42	135	50	8260B		9/18/2015	CJR	1
1,1,2-Trichloroethane	< 24	ug/l	24	76	50	8260B		9/18/2015	CJR	1
Trichloroethene (TCE)	90	ug/l	23.5	75	50	8260B		9/18/2015	CJR	1
Trichlorofluoromethane	< 43.5	ug/l	43.5	140	50	8260B		9/18/2015	CJR	1
1,2,4-Trimethylbenzene	< 80	ug/l	80	250	50	8260B		9/18/2015	CJR	1
1,3,5-Trimethylbenzene	< 75	ug/l	75	240	50	8260B		9/18/2015	CJR	1
Vinyl Chloride	< 8.5	ug/l	8.5	27	50	8260B		9/18/2015	CJR	1
m&p-Xylene	< 110	ug/l	110	345	50	8260B		9/18/2015	CJR	1
o-Xylene	< 45	ug/l	45	145	50	8260B		9/18/2015	CJR	1
SUR - Toluene-d8	108	REC %			50	8260B		9/18/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			50	8260B		9/18/2015	CJR	1
SUR - 4-Bromofluorobenzene	111	REC %			50	8260B		9/18/2015	CJR	1
SUR - Dibromofluoromethane	102	REC %			50	8260B		9/18/2015	CJR	1

Project Name NEWTON PIT
 Project # 60135471

Invoice # E29682

Lab Code 5029682B
 Sample ID P-2
 Sample Matrix Water
 Sample Date 9/15/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		9/21/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		9/21/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		9/21/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		9/21/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		9/21/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		9/21/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		9/21/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		9/21/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		9/21/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		9/21/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		9/21/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		9/21/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		9/21/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		9/21/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		9/21/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		9/21/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		9/21/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		9/21/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		9/21/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		9/21/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		9/21/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		9/21/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		9/21/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		9/21/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		9/21/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		9/21/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		9/21/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		9/21/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		9/21/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		9/21/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		9/21/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		9/21/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		9/21/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		9/21/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		9/21/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		9/21/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		9/21/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		9/21/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		9/21/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		9/21/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		9/21/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		9/21/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		9/21/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		9/21/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		9/21/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		9/21/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		9/21/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		9/21/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		9/21/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		9/21/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		9/21/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		9/21/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		9/21/2015	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		9/21/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		9/21/2015	CJR	1
SUR - 4-Bromofluorobenzene	112	REC %			1	8260B		9/21/2015	CJR	1
SUR - Toluene-d8	110	REC %			1	8260B		9/21/2015	CJR	1

Project Name NEWTON PIT
 Project # 60135471

Invoice # E29682

Lab Code 5029682C
 Sample ID P-2 DUP
 Sample Matrix Water
 Sample Date 9/15/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		9/21/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		9/21/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		9/21/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		9/21/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		9/21/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		9/21/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		9/21/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		9/21/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		9/21/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		9/21/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		9/21/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		9/21/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		9/21/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		9/21/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		9/21/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		9/21/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		9/21/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		9/21/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		9/21/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		9/21/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		9/21/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		9/21/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		9/21/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		9/21/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		9/21/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		9/21/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		9/21/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		9/21/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		9/21/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		9/21/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		9/21/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		9/21/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		9/21/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		9/21/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		9/21/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		9/21/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		9/21/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		9/21/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		9/21/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		9/21/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		9/21/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		9/21/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		9/21/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		9/21/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		9/21/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		9/21/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		9/21/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		9/21/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		9/21/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		9/21/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		9/21/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		9/21/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		9/21/2015	CJR	1
SUR - Toluene-d8	105	REC %			1	8260B		9/21/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		9/21/2015	CJR	1
SUR - 4-Bromofluorobenzene	114	REC %			1	8260B		9/21/2015	CJR	1
SUR - Dibromofluoromethane	108	REC %			1	8260B		9/21/2015	CJR	1

Project Name NEWTON PIT
 Project # 60135471

Invoice # E29682

Lab Code 5029682D
 Sample ID P-3
 Sample Matrix Water
 Sample Date 9/15/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		9/21/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		9/21/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		9/21/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		9/21/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		9/21/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		9/21/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		9/21/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		9/21/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		9/21/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		9/21/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		9/21/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		9/21/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		9/21/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		9/21/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		9/21/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		9/21/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		9/21/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		9/21/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		9/21/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		9/21/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		9/21/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		9/21/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		9/21/2015	CJR	1
cis-1,2-Dichloroethene	18.6	ug/l	0.45	1.4	1	8260B		9/21/2015	CJR	1
trans-1,2-Dichloroethene	25.5	ug/l	0.54	1.7	1	8260B		9/21/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		9/21/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		9/21/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		9/21/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		9/21/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		9/21/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		9/21/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		9/21/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		9/21/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		9/21/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		9/21/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		9/21/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		9/21/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		9/21/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		9/21/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		9/21/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		9/21/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		9/21/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		9/21/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		9/21/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		9/21/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		9/21/2015	CJR	1
Trichloroethene (TCE)	9.4	ug/l	0.47	1.5	1	8260B		9/21/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		9/21/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		9/21/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		9/21/2015	CJR	1
Vinyl Chloride	0.23 "J"	ug/l	0.17	0.54	1	8260B		9/21/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		9/21/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		9/21/2015	CJR	1
SUR - Toluene-d8	107	REC %			1	8260B		9/21/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		9/21/2015	CJR	1
SUR - 4-Bromofluorobenzene	121	REC %			1	8260B		9/21/2015	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		9/21/2015	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.

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



A handwritten signature in blue ink, appearing to read "Michael J. Paul", is written over a horizontal line.

CHAIN OF STUDY RECORD

Synergy

Environmental Lab, Inc.

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

Chain # N^o 282

Page 1 of 1

Lab I.D. # _____

Account No.: _____ Quote No.: _____

Project #: 60135471

Sampler: (signature) DSH

Project (Name / Location): Newton Pit

Reports To: DAVID HENDERSON

Company: AECOM

Address: 1555 N Rivercenter

City State Zip: MILW WI 53212

Phone: 414 429 8304

FAX: _____

Invoice To: SAME

Company: _____

Address: _____

City State Zip: _____

Phone: _____

FAX: _____

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

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-FCRA METALS	PID/ FID
5029682A	P-1	9/15	2:15	X	X	N	3	GW	HeL															
B	P-2	2:35					1																	
C	P-2 Dup	2:35					1																	
D	P-3	2:44					1																	

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

VOC's only

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Dry Ice °C On Ice No

Temp. of Temp. Blank °C On Ice Yes No

Cooler seal intact upon receipt: Yes No

Relinquished By: (sign) DS. Henderson Date: 9/16/15 Time: _____

Received in Laboratory By: [Signature] Date: 9/17/15 Time: 8:00

Synergy Environmental Lab, INC.

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

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Report Date 25-Mar-16

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E30715

Lab Code 5030715A
Sample ID P-12
Sample Matrix Water
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		3/24/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		3/24/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		3/24/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		3/24/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		3/24/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		3/24/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		3/24/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		3/24/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		3/24/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		3/24/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		3/24/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		3/24/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		3/24/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		3/24/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		3/24/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		3/24/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		3/24/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		3/24/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		3/24/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		3/24/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		3/24/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		3/24/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		3/24/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		3/24/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		3/24/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		3/24/2016	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E30715

Lab Code 5030715A
Sample ID P-12
Sample Matrix Water
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		3/24/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		3/24/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		3/24/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		3/24/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		3/24/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		3/24/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		3/24/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		3/24/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		3/24/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		3/24/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		3/24/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		3/24/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		3/24/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		3/24/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		3/24/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		3/24/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		3/24/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		3/24/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			1	8260B		3/24/2016	CJR	1
SUR - 4-Bromofluorobenzene	105	REC %			1	8260B		3/24/2016	CJR	1
SUR - Dibromofluoromethane	93	REC %			1	8260B		3/24/2016	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		3/24/2016	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E30715

Lab Code 5030715B
Sample ID P-2R
Sample Matrix Water
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		3/24/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		3/24/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		3/24/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		3/24/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		3/24/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		3/24/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		3/24/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		3/24/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		3/24/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		3/24/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		3/24/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		3/24/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		3/24/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		3/24/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		3/24/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		3/24/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		3/24/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		3/24/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		3/24/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		3/24/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		3/24/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		3/24/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		3/24/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		3/24/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		3/24/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		3/24/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		3/24/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		3/24/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		3/24/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		3/24/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		3/24/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		3/24/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		3/24/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		3/24/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		3/24/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		3/24/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		3/24/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		3/24/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		3/24/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		3/24/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		3/24/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		3/24/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		3/24/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		3/24/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		3/24/2016	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		3/24/2016	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		3/24/2016	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		3/24/2016	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E30715

Lab Code 5030715C
Sample ID P-13
Sample Matrix Water
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		3/24/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		3/24/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		3/24/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		3/24/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		3/24/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		3/24/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		3/24/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		3/24/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		3/24/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		3/24/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		3/24/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		3/24/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		3/24/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		3/24/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		3/24/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		3/24/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		3/24/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		3/24/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		3/24/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		3/24/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		3/24/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		3/24/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		3/24/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		3/24/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		3/24/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		3/24/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		3/24/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		3/24/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		3/24/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		3/24/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		3/24/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		3/24/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		3/24/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		3/24/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		3/24/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		3/24/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		3/24/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		3/24/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		3/24/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		3/24/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		3/24/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		3/24/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		3/24/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		3/24/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			1	8260B		3/24/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		3/24/2016	CJR	1
SUR - Dibromofluoromethane	109	REC %			1	8260B		3/24/2016	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		3/24/2016	CJR	1

Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E30715

Lab Code 5030715D
 Sample ID P-2
 Sample Matrix Water
 Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		3/24/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		3/24/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		3/24/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		3/24/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		3/24/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		3/24/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		3/24/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		3/24/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		3/24/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		3/24/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		3/24/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		3/24/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		3/24/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		3/24/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		3/24/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		3/24/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		3/24/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		3/24/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		3/24/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		3/24/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		3/24/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		3/24/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		3/24/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		3/24/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		3/24/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		3/24/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		3/24/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		3/24/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		3/24/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		3/24/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		3/24/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		3/24/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		3/24/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		3/24/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		3/24/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		3/24/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		3/24/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		3/24/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		3/24/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		3/24/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		3/24/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		3/24/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		3/24/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		3/24/2016	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		3/24/2016	CJR	1
SUR - Dibromofluoromethane	113	REC %			1	8260B		3/24/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		3/24/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	113	REC %			1	8260B		3/24/2016	CJR	1

Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E30715

Lab Code 5030715E
 Sample ID P-1
 Sample Matrix Water
 Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 4.4	ug/l	4.4	14	10	8260B		3/24/2016	CJR	1
Bromobenzene	< 4.8	ug/l	4.8	15	10	8260B		3/24/2016	CJR	1
Bromodichloromethane	< 4.6	ug/l	4.6	15	10	8260B		3/24/2016	CJR	1
Bromoform	< 4.6	ug/l	4.6	15	10	8260B		3/24/2016	CJR	1
tert-Butylbenzene	< 11	ug/l	11	34	10	8260B		3/24/2016	CJR	1
sec-Butylbenzene	< 12	ug/l	12	38	10	8260B		3/24/2016	CJR	1
n-Butylbenzene	< 10	ug/l	10	33	10	8260B		3/24/2016	CJR	1
Carbon Tetrachloride	< 5.1	ug/l	5.1	16	10	8260B		3/24/2016	CJR	1
Chlorobenzene	< 4.6	ug/l	4.6	14	10	8260B		3/24/2016	CJR	1
Chloroethane	< 6.5	ug/l	6.5	21	10	8260B		3/24/2016	CJR	1
Chloroform	< 4.3	ug/l	4.3	14	10	8260B		3/24/2016	CJR	1
Chloromethane	< 19	ug/l	19	60	10	8260B		3/24/2016	CJR	1
2-Chlorotoluene	< 4	ug/l	4	13	10	8260B		3/24/2016	CJR	1
4-Chlorotoluene	< 6.3	ug/l	6.3	20	10	8260B		3/24/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 14	ug/l	14	45	10	8260B		3/24/2016	CJR	1
Dibromochloromethane	< 4.5	ug/l	4.5	14	10	8260B		3/24/2016	CJR	1
1,4-Dichlorobenzene	< 4.9	ug/l	4.9	16	10	8260B		3/24/2016	CJR	1
1,3-Dichlorobenzene	< 5.2	ug/l	5.2	16	10	8260B		3/24/2016	CJR	1
1,2-Dichlorobenzene	< 4.6	ug/l	4.6	15	10	8260B		3/24/2016	CJR	1
Dichlorodifluoromethane	< 8.7	ug/l	8.7	28	10	8260B		3/24/2016	CJR	1
1,2-Dichloroethane	< 4.8	ug/l	4.8	15	10	8260B		3/24/2016	CJR	1
1,1-Dichloroethane	< 11	ug/l	11	36	10	8260B		3/24/2016	CJR	1
1,1-Dichloroethene	< 6.5	ug/l	6.5	21	10	8260B		3/24/2016	CJR	1
cis-1,2-Dichloroethene	287	ug/l	4.5	14	10	8260B		3/24/2016	CJR	1
trans-1,2-Dichloroethene	< 5.4	ug/l	5.4	17	10	8260B		3/24/2016	CJR	1
1,2-Dichloropropane	< 4.3	ug/l	4.3	13.7	10	8260B		3/24/2016	CJR	1
2,2-Dichloropropane	< 31	ug/l	31	98	10	8260B		3/24/2016	CJR	1
1,3-Dichloropropane	< 4.2	ug/l	4.2	13	10	8260B		3/24/2016	CJR	1
Di-isopropyl ether	< 4.4	ug/l	4.4	14	10	8260B		3/24/2016	CJR	1
EDB (1,2-Dibromoethane)	< 6.3	ug/l	6.3	20	10	8260B		3/24/2016	CJR	1
Ethylbenzene	< 7.1	ug/l	7.1	23	10	8260B		3/24/2016	CJR	1
Hexachlorobutadiene	< 22	ug/l	22	71	10	8260B		3/24/2016	CJR	1
Isopropylbenzene	< 8.2	ug/l	8.2	26	10	8260B		3/24/2016	CJR	1
p-Isopropyltoluene	< 11	ug/l	11	35	10	8260B		3/24/2016	CJR	1
Methylene chloride	< 13	ug/l	13	42	10	8260B		3/24/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 11	ug/l	11	37	10	8260B		3/24/2016	CJR	1
Naphthalene	< 16	ug/l	16	52	10	8260B		3/24/2016	CJR	1
n-Propylbenzene	< 7.7	ug/l	7.7	24	10	8260B		3/24/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 5.2	ug/l	5.2	17	10	8260B		3/24/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 4.8	ug/l	4.8	15	10	8260B		3/24/2016	CJR	1
Tetrachloroethene	< 4.9	ug/l	4.9	15	10	8260B		3/24/2016	CJR	1
Toluene	< 4.4	ug/l	4.4	14	10	8260B		3/24/2016	CJR	1
1,2,4-Trichlorobenzene	< 17	ug/l	17	56	10	8260B		3/24/2016	CJR	1
1,2,3-Trichlorobenzene	< 27	ug/l	27	86	10	8260B		3/24/2016	CJR	1
1,1,1-Trichloroethane	< 8.4	ug/l	8.4	27	10	8260B		3/24/2016	CJR	1
1,1,2-Trichloroethane	< 4.8	ug/l	4.8	15.2	10	8260B		3/24/2016	CJR	1
Trichloroethene (TCE)	25	ug/l	4.7	15	10	8260B		3/24/2016	CJR	1
Trichlorofluoromethane	< 8.7	ug/l	8.7	28	10	8260B		3/24/2016	CJR	1
1,2,4-Trimethylbenzene	< 16	ug/l	16	50	10	8260B		3/24/2016	CJR	1
1,3,5-Trimethylbenzene	< 15	ug/l	15	48	10	8260B		3/24/2016	CJR	1
Vinyl Chloride	< 1.7	ug/l	1.7	5.4	10	8260B		3/24/2016	CJR	1
m&p-Xylene	< 22	ug/l	22	69	10	8260B		3/24/2016	CJR	1
o-Xylene	< 9	ug/l	9	29	10	8260B		3/24/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	110	REC %				8260B		3/24/2016	CJR	1
SUR - 4-Bromofluorobenzene	109	REC %				8260B		3/24/2016	CJR	1
SUR - Dibromofluoromethane	113	REC %				8260B		3/24/2016	CJR	1
SUR - Toluene-d8	99	REC %				8260B		3/24/2016	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E30715

Lab Code 5030715F
Sample ID P-3
Sample Matrix Water
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		3/24/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		3/24/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		3/24/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		3/24/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		3/24/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		3/24/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		3/24/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		3/24/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		3/24/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		3/24/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		3/24/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		3/24/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		3/24/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		3/24/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		3/24/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		3/24/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		3/24/2016	CJR	1
cis-1,2-Dichloroethene	17.2	ug/l	0.45	1.4	1	8260B		3/24/2016	CJR	1
trans-1,2-Dichloroethene	25.7	ug/l	0.54	1.7	1	8260B		3/24/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		3/24/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		3/24/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		3/24/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		3/24/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		3/24/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		3/24/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		3/24/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		3/24/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		3/24/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		3/24/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		3/24/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		3/24/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		3/24/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		3/24/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		3/24/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		3/24/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		3/24/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		3/24/2016	CJR	1
Trichloroethene (TCE)	6.7	ug/l	0.47	1.5	1	8260B		3/24/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		3/24/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		3/24/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		3/24/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		3/24/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		3/24/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		3/24/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			1	8260B		3/24/2016	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		3/24/2016	CJR	1
SUR - Dibromofluoromethane	108	REC %			1	8260B		3/24/2016	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		3/24/2016	CJR	1

Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E30715

Lab Code 5030715G
 Sample ID TRIP BLANK
 Sample Matrix Water
 Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		3/24/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		3/24/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		3/24/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		3/24/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		3/24/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		3/24/2016	CJR	1
Chloroform	0.53 "J"	ug/l	0.43	1.4	1	8260B		3/24/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		3/24/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		3/24/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		3/24/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		3/24/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		3/24/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		3/24/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		3/24/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		3/24/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		3/24/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		3/24/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		3/24/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		3/24/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		3/24/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		3/24/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		3/24/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		3/24/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		3/24/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		3/24/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		3/24/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		3/24/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		3/24/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		3/24/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		3/24/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		3/24/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		3/24/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		3/24/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		3/24/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		3/24/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		3/24/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		3/24/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		3/24/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		3/24/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		3/24/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		3/24/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		3/24/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		3/24/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		3/24/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		3/24/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		3/24/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		3/24/2016	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		3/24/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		3/24/2016	CJR	1
SUR - 4-Bromofluorobenzene	91	REC %			1	8260B		3/24/2016	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		3/24/2016	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.

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



A handwritten signature in blue ink, appearing to read "Michael J. Paul", is written over a horizontal line.

CHAIN OF STUDY RECORD

Synergy

Environmental Lab, Inc.

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

Chain # **No 303**
Page **1** of **1**

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

Lab I.D. # _____ Quote No.: _____
Account No.: **60135471**
Project #: **60135471**
Sampler: (signature) **T. Schultz (TAS)**
Project (Name / Location): **NEWTON GRAVEL PIT / MANITOWOC, WI**
Reports To: **DAVE HENDERSON**
Company **AECOM**
Address **1555 N. RIVERCENTER DR. STELLA**
City State Zip **MILWAUKEE WI 53222**
Phone **414-944-6190**
FAX **414-944-6081**

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
S030715A	P-12	2/26/95		X	X	N	3	GW	HCL
B	P-2R	2/26/95		X	X	Y	3	GW	HCL
C	P-13	10/15		X	X	Y	3	GW	HCL
D	P-2	10/30		X	X	Y	3	GW	HCL
E	P-1	12-35		X	X	Y	3	GW	HCL
F	P-3	1/35		X	X	Y	3	GW	HCL
G	Trip Blank	08/00		X	X	Y	3	GW	HCL

Analysis Requested	Other Analysis
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)	X
8-FCRA METALS	

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

Analysis Per Contract

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

Relinquished By: (sign) **T. Schultz** Time **0815** Date **3/23/16**
Received in Laboratory By: **[Signature]** Time **10:00** Date **3/24/16**