



October 1, 2015

Stora Enso C/O
John T. Kolaga, Esq.
Rupp Baase Pfalzgraf Cunningham LLC
1600 Liberty Building
Buffalo, New York 14202

**RE: IN-SITU BIOREMEDIATION MONITORING REPORT,
VAILS GATE MANUFACTURING, LLC, VAILS GATE,
NEW YORK, NYSDEC SITE NO. 336065**

Dear Mr. Kolaga:

Leader Consulting Services, Inc. (“Leader”) is pleased to provide Rupp Baase Pfalzgraf Cunningham, LLC (“RBFC”), on behalf of Stora Enso, with this report summarizing the results of the In-Situ Bioremediation Quarterly Monitoring completed at the former Vails Gate Manufacturing facility (“VGM”) at 1073 Route 94 in Vails Gate, New York (hereafter referred to as “the Site”). The Site is currently identified as the Vails Gate Business Center (“VGBC”). This is the fourth Quarterly Monitoring Report required under the Remedial Action Work Plan (“RAWP”). It includes the field and laboratory results from the third quarterly sampling event.

1.0 BACKGROUND AND PURPOSE

Leader was retained to implement the New York State Department of Environmental Conservation (“NYSDEC”)-approved RAWP that was developed for Area of Concern 6 (“AOC 6”) at the Site. As identified in the approved RAWP, In-situ bioremediation was the selected remedial alternative identified in the NYSDEC-approved Corrective Measure Study (“CMS”). The Site-specific Standards, Criteria and Guidance (“SCGs”) applicable to the RAWP were developed to meet the Remedial Action Objectives (“RAOs”) of the CMS. An “unrestricted use remedy” has been established for the Site, which is based on the regulatory standard values for Class GA groundwater identified in 6 NYCRR Part 703.5. The RAWP was developed to address the SCGs and RAOs for the Site. The RAWP has been implemented in accordance with NYSDEC Department of Environmental Remediation (“DER”) Guidance Document DER-10, *Technical Guidance for Site Investigation and Remediation*.

2.0 SCOPE-OF-WORK

The scope of work for the In-Situ Bioremediation program identified in the RAWP was based on the March 2012 Phase II RCRA Facility Investigation (“RFI”) and the 2013 CMS. Quarterly sampling and laboratory analyses of groundwater samples from four (4) groundwater monitoring wells (MW-14, MW-5A/AR, MW-16 and MW-CHA-RFI-7) are required per the RAWP. Included in this report are the fourth quarterly sampling event Analytical Laboratory Results and Summary Tables (Attachment A) and a Data Validation Summary (Attachment B). Figure 1 includes the approximate Injection Point (“IP”) locations used to apply bioremediation solutions into the subsurface at AOC 6, and the location of the monitoring wells.



3.0 QUARTERLY SAMPLING PROGRAM

The fourth quarterly sampling event of the bioremediation program was conducted on August 6, 2015. The laboratory parameters for the quarterly samples included analysis for volatile organic compounds (“VOCs”), sulfate, total organic carbon (“TOC”), and dissolved iron. The field parameters included dissolved oxygen (“DO”), pH, oxidation reduction potential (“redox”), temperature and turbidity. Laboratory and field data were reviewed to evaluate VOC concentrations and field data parameters from groundwater samples from each of the wells to assess the impact of biotreatment activity within AOC 6.

4.0 FIELD AND LABORATORY GROUNDWATER SAMPLE RESULTS

4.1 GROUNDWATER SAMPLE FIELD DATA RESULTS

The DO concentrations within the samples collected from the four (4) wells ranged from 400 parts per billion (“ppb”) to 1,100 ppb. The pH levels within the samples collected from the four (4) wells ranged from 6.28 standard units (“SUs”) to 7.41 SUs. Redox values of the samples collected from the four (4) wells ranged from -88 milliVolts (“mVs”) to 49 mVs. Data interpretation is discussed in Section 4.0.

4.2 GROUNDWATER SAMPLE LABORATORY ANALYTICAL DATA RESULTS

GWM Well MW-5A/AR

Acetone was detected within the 4th Quarter sample from MW-5A/AR at a concentration of 110 ppb, in excess of the NYSDEC Class GA standard of 50 ppb. Chloroethane concentrations increased slightly from 470 ppb in May 2015 to a value of 540 ppb in August 2015. 1,1-dichloroethane decreased from 41 ppb in May to 3.5 ppb in August, the first time it has been below the Class GA standard. 1,1- dichloroethene decreased from 1.9 ppb in May to non-detect (“ND”) in August, remaining below the Class GA standard of 5 ppb. Toluene concentrations increased from ND in May, to 2.8 ppb in August, remaining below the Class GA standard. Vinyl chloride decreased slightly from 2.4 ppb in May to ND in August, which is below the Class GA standard. Naphthalene, n-propylbenzene, 1,3,5 trimethylbenzene and sec-butylbenzene concentrations increased slightly from May to August, but remain below the Class GA groundwater standards. 2-butanone (aka methyl ethyl ketone) concentrations decreased from 4.5 ppb in May to ND in August. 1,2,4 trimethylbenzene has increased from a concentration of 2.1 ppb in May to 5.1 ppb in August, just slightly above the Class GA groundwater standard of 5 ppb. The analyte concentrations of acetone, chloroethane and 1,2,4- trimethylbenzene from the August 2015 samples collected from GWM Well MW-5A/AR were above the NYSDEC Class GA groundwater standards.

GWM Well MW-14

Acetone was detected within the 4th Quarter sample from MW-14, decreasing from 16 ppb in May to 12 ppb in August, remaining below the Class GA groundwater standard of 50 ppb. Chloroethane concentrations increased from 2.1 ppb in May to 8 ppb in August, now above the Class GA groundwater standard of 5 ppb. 1,1- dichloroethane concentrations decreased from



48 ppb in May to 31 ppb in August, but remains above the Class GA standard of 5 ppb. 1,1-dichloroethene concentrations increased slightly from 3.1 ppb in May to 3.6 ppb in August, remaining below the Class GA standard. The concentration of vinyl chloride from the sample collected in August remained virtually unchanged from May (3.1 ppb from 2.8 ppb), remaining slightly above the Class GA groundwater standard of 2 ppb. 2-butanone concentrations decreased slightly, from 2.2 ppb in May to ND in August, and remained below the Class GA standard of 50 ppb. The remaining VOC analytes were not detected within the August 2015 sample.

GWM Well MW-16

The concentration of acetone within the sample collected in August 2015 decreased from 4.6 ppb in May to ND in August, and remained below the Class GA standard of 50 ppb. Chloroethane concentrations increased from ND in May to 3.7 ppb in August, but remained below the Class GA groundwater standard of 5 ppb. 1,1-dichloroethane concentrations increased from 14 ppb in May to 73 ppb in August, remaining above the Class GA standard, as did 1,1-dichloroethene concentrations (increased from 5.6 ppb in May to 33 ppb in August). Cis 1,2 dichloroethene was detected in the sample collected from MW-16 for the first time, at a concentration of 3.4 ppb, below the Class GA standard of 5 ppb. 1,1,2 trichloroethane was detected in the sample collected from MW-16 for the first time, at a concentration of 1.9 ppb, above the Class GA standard of 1 ppb. Tetrachloroethene concentrations increased from 2.2 ppb in May to 11 ppb in August, now above the Class GA standard of 5ppb. 1,1,1, trichloroethane concentrations increased from ND in May to 5.6 ppb in August, slightly above the Class GA standard of 5 ppb. Vinyl Chloride concentrations increased from 1 ppb in May to 7.6 ppb in August, now above the Class GA standard of 2 ppb. Trichloroethene concentrations increased from ND in May to 1.2 ppb in August, and remained below the Class GA standard of 5 ppb. Chloroform concentrations decreased from 4.9 ppb in May to ND in August, and remained below the Class GA standard of 7 ppb. The concentrations of 1,1-dichloroethane, 1,1,2 trichloroethane, 1,1,1, trichloroethane, tetrachloroethene, 1,1-dichloroethene, and vinyl chloride were above the NYSDEC Class GA groundwater standards from the sample collected from GWM Well MW-16 in August 2015.

GWM Well MW-CHA-RFI-7

VOC concentrations from the sample collected from MW-CHA-RFI-7 during the August 2015 sampling event were non-detectable.

5.0 DATA INTERPRETATION

5.1 FIELD DATA

TOC concentrations remain high in monitoring wells MW-5A/AR and MW-14, indicating continuing microbial activity. Groundwater pH levels indicate an environment conducive to continued microbial activity. Though not fluctuating significantly since media injection, the redox values indicate that reducing conditions exist for dechlorination.



5.2 LABORATORY DATA

Dissolved iron and sulfate concentrations are within ranges to support dechlorination. Monitoring well MW-5A/AR remains the well providing the greatest indication of VOC bioremediation activity. The VOC concentrations of acetone, chloroethane and 1,2,4-trimethylbenzene remain in exceedance of the Class GA groundwater standards.

With the exception of dichloroethane, 1,1-dichloroethane and vinyl chloride, the concentrations of each of the detected VOCs within the sample from MW-14 during the August 2015 sampling event are currently below the NYSDEC Class GA groundwater standards.

The concentrations of 1,1-dichloroethane, 1,1,2 trichloroethane, 1,1,1, trichloroethane, tetrachloroethene, 1,1-dichloroethene and vinyl chloride were above the NYSDEC Class GA groundwater standards from the August 2015 sample collected from MW-16. The remaining detected analytes are below the Class GA groundwater standards. The biodegradation products detected in the fourth quarter sample from MW-16 (e.g., 1,1-dichloroethane, 1,1,1-trichloroethane, and 1, 1, 2-trichloroethane) indicate that biodegradation is occurring upgradient (i.e., in the injection area near MW-5A/AR). Thus, it is expected that as the VOC concentrations within MW-5A/AR decrease, the concentrations of VOC daughter products within MW-16 will also decrease over time.

There were no detected VOC analytes within the groundwater sample collected in August 2015 from MW-CHA-RFI-7. This groundwater monitoring well was included in this sampling program as it represents a "background" well, hydraulically upgradient and outside of the influence of AOC 6.

If you need any additional information, please contact the undersigned at (716) 565-0963.

Very truly yours,
Leader Consulting Services, Inc.

A handwritten signature in black ink that reads "Keith D. Keller".

Keith D. Keller
Project Manager

A handwritten signature in black ink that reads "Jeffrey A. Wittlinger".

Jeffrey A. Wittlinger, P.E., BCEE
Principal



Attachment A

Analytical Laboratory Results and Summary Tables

**TABLE 1
GROUNDWATER MONITORING WELL SAMPLE LABORATORY ANALYTICAL DATA SUMMARY - DETECTED PARAMETERS**

Analyte ⁽¹⁾	MW-5A/AR								MW-14								MW-16								MW-CHA-RFI-7								Class GA Groundwater Standard (ppb) ⁽⁹⁾	
	June 2011	November 2011	July 2012	January 2013	August 2014 ⁽⁶⁾	November 2014 ⁽⁷⁾	February 2015	May 2015	August 2015	June 2011	November 2011	July 2012	January 2013	August 2014 ⁽⁶⁾	November 2014 ⁽⁷⁾	February 2015	May 2015	August 2015	June 2011	November 2011	July 2012	January 2013	August 2014 ⁽⁶⁾	November 2014 ⁽⁷⁾	February 2015	May 2015	August 2015	June 2011	November 2011	August 2014 ⁽⁶⁾	November 2014 ⁽⁷⁾	February 2015		May 2015
Quarterly Sampling Parameters																																		
Volatiles																																		
acetone	ND	ND	ND	ND	ND	.440 ⁽⁸⁾	.407	.77 ⁽¹⁰⁾	.110	.19	.45	.35	.11	.19 ⁽⁹⁾	ND	27.3	16.0	12.0	ND	ND	ND	ND	2 ⁽¹¹⁾⁽⁹⁾	ND	ND	4.6 ⁽¹²⁾	ND	ND	ND	ND	2.7 ⁽¹⁰⁾	ND	50 ⁽⁹⁾	
chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
chloroethane	280	290	520	150	250 ⁽⁸⁾	590 ⁽⁹⁾⁽¹⁰⁾	1010	470 ⁽¹¹⁾	540 ⁽¹³⁾	ND	ND	ND	1 ⁽¹²⁾	ND	ND	2.1	8.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
1,1-dichloroethane	650	1000	830	280	660 ⁽⁸⁾	110	325	41	3.5	86	79	67	53	47	1 ⁽¹²⁾	43	48	31	17	7.9	33	14	14	19	7.18	14	73	ND	ND	ND	ND	ND	5	
1,1-dichloroethene	ND	110 ⁽¹²⁾	29 ⁽¹²⁾	11 ⁽¹²⁾	22	ND	8.62	1.9	ND	5.2	3.1 ⁽¹²⁾	4.6 ⁽¹²⁾	2.7 ⁽¹²⁾	3 ⁽¹²⁾	2 ⁽¹²⁾	3.51	3.1	3.6	3 ⁽¹²⁾	2.4 ⁽¹²⁾	8.7	5.6	7	9 ⁽¹²⁾	1.73	5.6	33	ND	ND	ND	ND	ND	5	
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
1,4-dioxane	ND	ND	ND	ND	ND	ND	ND	ND	ND	420	620	490	270	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
toluene	ND	ND	ND	ND	ND	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-trichloroethane	890	3000	480	210	750 ⁽⁸⁾	33	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,2-trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
vinyl chloride	ND	ND	15 ⁽¹²⁾	ND	14	6 ⁽¹¹⁾⁽¹⁰⁾	3.59	2.4	ND	5.2	4.6 ⁽¹²⁾	2.3 ⁽¹²⁾	2.1 ⁽¹²⁾	3 ⁽¹²⁾	2 ⁽¹²⁾⁽¹⁰⁾	2.79	2.8	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	
2-butanone (MEK)	ND	ND	ND	ND	ND	190 ⁽¹⁰⁾	82.1	4.5 ⁽¹²⁾	ND	ND	ND	ND	2 ⁽¹²⁾	2 ⁽¹²⁾⁽¹⁰⁾	ND	2.2 ⁽¹²⁾	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50 ⁽⁹⁾	
4-methyl-2-pentanone	ND	ND	ND	ND	ND	3 ⁽¹²⁾	ND	ND	ND	ND	ND	ND	ND	1 ⁽¹²⁾	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
naphthalene	ND	ND	ND	ND	ND	ND	ND	2.7	ND	ND	ND	ND	ND	2 ⁽¹²⁾⁽¹⁰⁾	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10 ⁽⁹⁾	
n-propylbenzene	ND	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
1,2,3-trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 ⁽¹²⁾⁽¹⁰⁾	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4 ⁽¹²⁾⁽¹⁰⁾	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5 ⁽⁹⁾	
1,2,4-trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 ⁽¹²⁾⁽¹⁰⁾	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
1,2,4-trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	2.1	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
1,3,5-trimethylbenzene/p-cymene	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
styrene	ND	ND	ND	ND	ND	ND	ND	1.1	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
1,2-dichloroethane	ND	ND	ND	ND	1 ⁽¹²⁾	2 ⁽¹²⁾	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	
trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	
Wet Chemistry and Dissolved Metals																																		
sulfate	NA	NA	NA	NA	31,500	<5,000	<5,000	700 ⁽¹¹⁾	<5,000	NA	NA	NA	NA	14,900	25,700	31,200	31,000	<5,000	NA	NA	NA	NA	14,400	17,900	18,800	20,500	25,300	NA	NA	38,100	42,800	39,900	250,000	
total organic carbon (TOC)	NA	NA	NA	NA	3,410	288,000	95,400	48,900	30,200	NA	NA	NA	NA	4,150	45,900	35,800	39,800	50,300	NA	NA	NA	NA	8,650	10,800	4,220	11,700	28,000	NA	NA	938	42,800	746	NS	
dissolved iron	NA	NA	NA	NA	ND	50,600	42,900	5,780	6,050	NA	NA	NA	NA	6,130	16,200	8,410	9,130	9,920	NA	NA	NA	NA	ND	231	1,470	30.9 ⁽¹²⁾	12.2 ⁽¹¹⁾	NA	NA	ND	1,450	124	184	100 ⁽¹²⁾ as low as possible, NTE 500,000

NOTES:
(1) All analyte values expressed as parts per billion ("ppb").
(2) The analyte was "F" flagged, indicating that it was detected below the laboratory quantification limits, and should be considered estimated.
(3) Standard is identified in 6 NYCRR, Part 703.5, Table 1, Water Quality Standards Surface Waters and Groundwater.
(4) Standard is not identified in 6 NYCRR, Part 703.5, Table 1, NYSDEC TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations has been used.
(5) Analyte Standard does not exist in Part 703.5, Table 1. Analyte is identified in TOGS 1.1.1, Table 3 as unregulated.
(6) Sampling date of August 11, 2014, reflects pre-bioremediation injection date of August 13 and 14, 2014.
(7) November 2014 sampling event reflects first post-bioremediation data.
(8) The analyte was "B" flagged, indicating that it was detected in the laboratory method blank, and should be considered estimated.
(9) The analyte was "E" flagged, indicating that the concentration exceeded the calibration range of the laboratory instrument, and should be considered an estimate.
(10) The analyte was "Z" flagged, indicating that it did not meet the variability criteria for the continuous calibration check (CCV) of 20%, and the value should be considered estimated.
(11) The analyte was "D" flagged, indicating that the surrogate concentration was diluted outside the laboratory acceptance criteria.
(12) The analyte was "U" flagged, indicating that the analyte was not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.
NA - Contaminant was not included for analysis during RFI.
A value identified in red indicates a concentration of the analyte in excess of the 6 NYCRR, Part 703.5 Table 1 standard or NYSDEC TOGS 1.1.1 guidance value.

TABLE 2

GROUNDWATER MONITORING WELL SAMPLE FIELD DATA

MW-5A/AR					
Analyte	August 2014⁽⁴⁾	November 2014⁽⁵⁾	February 2015	May 2015	August 2015
dissolved oxygen ⁽¹⁾	1,150	1,860	1,910	910	300
pH ⁽²⁾	7.66	7.07	6.74	6.43	6.61
redox ⁽³⁾	-137	-90	-42	-73	-88

MW-14					
Analyte	August 2014⁽⁴⁾	November 2014⁽⁵⁾	February 2015	May 2015	August 2015
dissolved oxygen ⁽¹⁾	1,940	2,110	1,720	1,280	1,100
pH ⁽²⁾	7.19	7.41	6.98	6.58	6.68
redox ⁽³⁾	7	-1	47	0	0

MW-16					
Analyte	August 2014⁽⁴⁾	November 2014⁽⁵⁾	February 2015	May 2015	August 2015
dissolved oxygen ⁽¹⁾	990	2,210	2,750	2,150	400
pH ⁽²⁾	7.12	6.86	6.94	6.66	6.28
redox ⁽³⁾	24	-14	12	151	49

MW-CHA-RFI-7					
Analyte	August 2014⁽⁴⁾	November 2014⁽⁵⁾	February 2015	May 2015	August 2015
dissolved oxygen ⁽¹⁾	1,440	1,220	1,760	1,660	600
pH ⁽²⁾	7.55	7.38	7.55	7.01	7.41
redox ⁽³⁾	-36	-1	73	35	20

NOTES:

- (1) Value expressed as parts per billion ("ppb").
- (2) Value expressed as Standard Unit.
- (3) Value expressed as millivolts (mV).
- (4) Sampling date of August 11, 2014, reflects pre-bioremediation injection date of August 13 and 14, 2014.
- (5) November 2014 sampling event reflects first post-bioremediation data.

TABLE 3
REDUCTIVE DECHLORINATION ACTIVITY INDICATOR PARAMETERS

Analyte ⁽¹⁾	MW-5A/AR		MW-14		MW-16		MW-CHA-RFI-7	
	August 2014 ⁽³⁾	August 2016	August 2014 ⁽³⁾	August 2016	August 2014 ⁽³⁾	August 2016	August 2014 ⁽³⁾	August 2016
Pre/Post Injection Parameters								
nitrate	ND		ND		ND		ND	
total iron	3,850		223,000		1,860		5,430	
dissolved iron	ND		6,130		ND		ND	
total manganese	2,410		18,200		7,380		1,680	
dissolved manganese	2,310		7,120		5,490		1,450	
dissolved methane	2,300		890		370		2.8	
dissolved ethane	14		0.24		0.10 ⁽²⁾		0.016 ⁽²⁾	
dissolved ethene	2.1		0.21		0.64		0.024 ⁽²⁾	

NOTES:

(1) All analyte values expressed as parts per billion ("ppb").

(2) The analyte was "J" flagged, indicating that it was detected below the laboratory quantification limits, and should be considered estimated.

(3) Sampling date of August 11, 2014 reflects pre-bioremediation injection dates of August 13 and 14, 2014.

ND - Analyte was not detected above analytical laboratory detection limits.

Pace Analytical e-Report

***Issuance of this report is prior to full data package.**

Report prepared for:

Leader Consulting Services, Inc.
2813 Wehrle Drive
Suite 1
Williamsville, NY 14221
CONTACT: Keith Keller

Project ID: VAILS GATE MANUFACTURING

Sampling Date(s): August 06, 2015

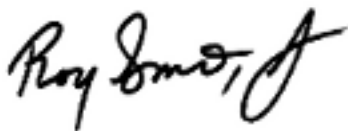
Lab Report ID: 15080208

Client Service Contact: Nick Nicholas (518) 346-4592

Analysis Included:

Misc Field Analysis
Dissolved Metals 200.7 - Sub - NY-LI
EPA Method 8260C
Sulfate - Sub
Total Organic Carbon

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within the document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Roy Smith
Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),
Massachusetts (M-NY906), Virginia (1884)

This page intentionally left blank.

Table of Contents

Section 1: QUALIFIERS	4
Section 2: SAMPLE CHAIN OF CUSTODY	6
Section 3: SAMPLE RECEIPT	9
Section 4: Wet Chemistry - TOC/DTOC.....	11
Section 5: Field Analysis	17
Section 6: Quality Control Samples (Lab)	22
Section 7: Subcontract Analysis	28

1

2

3

4

5

6

7

QUALIFIERS

Definitions

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Adjusted Method Detection Limit.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. PQLs are adjusted for sample weight/volume and dilution factors.

RL - Reporting Limit Denotes lowest analyte concentration reportable for the sample based on regulatory or project specific limits.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY



New York Office
 2190 Technology Dr.
 Schenectady, NY 12308
 (518) 346-4592

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<15080208P1>



150802081

Section A Required Client Information: Section B Required Project Information: Section C Invoice Information:

Page: 1 of 1

Company: Leader Professional Services	Report To: Keith Keller	Attention: Keith Keller
Address: 2813 Wehrle Drive, Suite 1 Williamsville, NY 14221	Copy To: na	Company Name: Leader Professional Services
Email To:	Purchase Order No.:	Address:
Phone: 716-565-0963 Fax: na	Project Name: Vails Gate Manufactu	Pace Quote Reference: #00012704
Requested Due Date/TAT: Standard 2-Week	Project Number:	Pace Project Manager: Nicholas Nicholas
Pace Profile #:		

REGULATORY PROGRAM

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

SITE LOCATION: **New York State**

Filtered (Y/N)

Requested Analyses

*Specify Metals/Inorganics: **Iron**

ITEM #	Section D Client Information	Valid Matrix Codes MATRIX CODE	Required MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Dissolved Fe	Sulfate	Total Organic Carbon	8260 Full List	Field- DO, Conductivity	Temp, pH, Eh,	Turbidity														
									Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₅	Methanol								Other													
1	Field Duplicate-01	WT	G		8/6/15	1046		7	X		X																									
2	MW-5A/AR	WT	G		8/6/15	1045		7	X		X																									
3	MW-14	WT	G		8/6/15	1120		7	X		X																									
4	MW-16	WT	G		8/6/15	1106		7	X		X																									
5	MW-CHA-RFI-7	WT	G		8/6/15	1230		7	X		X																									
6	MW-CHA-RFI-7_MS	WT	G		8/6/15	1230		7	X		X																									
7	MW-CHA-RFI-7_MSD	WT	G		8/6/15	1230		7	X		X																									
8	Trip Blank-01	WT	G		8/6/15	-		2	X		X																									
9		WT	G																																	
10		WT	G																																	
11		WT	G																																	
12		WT	G																																	

Pace Laboratory I.D.

AS22665

AS22666

AS22667

AS22668

AS22669

LA

AS22670

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NYSDEC DER-10 EQuis EDD LAB FILTER METALS	Matt Broker PACE	8/6/15	1435	[Signature]	8/6/15	1435	3.8	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **Matt Broker (PACE)**

SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): **8/6/15**

Temp in °C

Received on Ice

Custody Sealed Cooler

Samples Intact



Sample Condition Upon Receipt

CLIENT NAME: leader
PROJECT: Vails Gate

COURIER: FedEx N/A UPS Client Pace Other
 TRACKING # _____ CUSTODY SEAL PRESENT: Yes No INTACT: Yes No N/A
 PACKING MATERIAL: Bubble Wrap Bubble Bags None Other ICE USED: Wet Blue None
 THERMOMETER USED: #164 IR Gun 03 #122087967 COOLER TEMPERATURE (°C): 3.8
 BIOLOGICAL TISSUE IS FROZEN: Yes No N/A Temp should be above freezing to 6°C
 COMMENTS: Temperature is Acceptable? Yes No

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name / Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. <u>Unfiltered dissolved metals.</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
- Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
- Includes date/time/ID/Analysis		
All containers needing preservation have been checked:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are in compliance with EPA recommendation:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
- Exceptions that are not checked: TOC, VOA, Subcontract Analyses		Initial when completed: <u>N/A</u> Lot # of added preservative: <u>N/A</u>
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot #: <u>N/A</u>		

Sample Receipt form filled in: MW 8-7-15

Line-Out (Includes Copying Shipping Documents and verifying sample pH):
 Log In (Includes notifying PM of any discrepancies and documenting in LIMS):
 Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

AJB 8/6/15
PS 8/6/15
AJB 8/6/15

SAMPLE RECEIPT



SAMPLE RECEIPT REPORT

15080208

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 Phone: 518.346.4592
 Fax: 518.381.6055

CLIENT: LEADER CONSULTING SERVICES, INC.
PROJECT: VAILS GATE MANUFACTURING
LRF: 15080208
REPORT: DATA PACKAGE
EDD: YES
LRF TAT: 2 WEEK

RECEIVED DATE: 08/06/2015 14:35
SHIPPED VIA: PICK UP
SHIPPING ID:
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: NO
COOLER STATUS: CHILLED
TEMPERATURE(S): 5.8 (IR) °C

SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: YES
SAMPLES REC'D IN HOLDTIME: YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NO

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date ⁴	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
FIELD DUPLICATE-01 (AS22665)	2 WEEK 08-20-15	08/06/2015 10:46	Water		Sulfate - Sub	
	2 WEEK 08-20-15	08/06/2015 10:46	Water	200.7	Dissolved Metals 200.7 - Sub - NY-LI	
	2 WEEK 08-20-15	08/06/2015 10:46	Water	E8260C	EPA Method 8260C	
	2 WEEK 08-20-15	08/06/2015 10:46	Water	Misc Field Analysis	Misc Field Analysis	
	2 WEEK 08-20-15	08/06/2015 10:46	Water	SM 5310B-00,-11	Total Organic Carbon	
MW-5A/AR (AS22666)	2 WEEK 08-20-15	08/06/2015 10:45	Water		Sulfate - Sub	
	2 WEEK 08-20-15	08/06/2015 10:45	Water	200.7	Dissolved Metals 200.7 - Sub - NY-LI	
	2 WEEK 08-20-15	08/06/2015 10:45	Water	E8260C	EPA Method 8260C	
	2 WEEK 08-20-15	08/06/2015 10:45	Water	Misc Field Analysis	Misc Field Analysis	
	2 WEEK 08-20-15	08/06/2015 10:45	Water	SM 5310B-00,-11	Total Organic Carbon	
MW-14 (AS22667)	2 WEEK 08-20-15	08/06/2015 11:20	Water		Sulfate - Sub	
	2 WEEK 08-20-15	08/06/2015 11:20	Water	200.7	Dissolved Metals 200.7 - Sub - NY-LI	
	2 WEEK 08-20-15	08/06/2015 11:20	Water	E8260C	EPA Method 8260C	
	2 WEEK 08-20-15	08/06/2015 11:20	Water	Misc Field Analysis	Misc Field Analysis	
	2 WEEK 08-20-15	08/06/2015 11:20	Water	SM 5310B-00,-11	Total Organic Carbon	
MW-16 (AS22668)	2 WEEK 08-20-15	08/06/2015 11:06	Water		Sulfate - Sub	
	2 WEEK 08-20-15	08/06/2015 11:06	Water	200.7	Dissolved Metals 200.7 - Sub - NY-LI	
	2 WEEK 08-20-15	08/06/2015 11:06	Water	E8260C	EPA Method 8260C	
	2 WEEK 08-20-15	08/06/2015 11:06	Water	Misc Field Analysis	Misc Field Analysis	
	2 WEEK 08-20-15	08/06/2015 11:06	Water	SM 5310B-00,-11	Total Organic Carbon	
MW-CHA-RFI-7 (AS22669)	2 WEEK 08-20-15	08/06/2015 12:30	Water		Sulfate - Sub	MS, MSD
	2 WEEK 08-20-15	08/06/2015 12:30	Water	200.7	Dissolved Metals 200.7 - Sub - NY-LI	MS, MSD
	2 WEEK 08-20-15	08/06/2015 12:30	Water	E8260C	EPA Method 8260C	MS, MSD
	2 WEEK 08-20-15	08/06/2015 12:30	Water	Misc Field Analysis	Misc Field Analysis	
	2 WEEK 08-20-15	08/06/2015 12:30	Water	SM 5310B-00,-11	Total Organic Carbon	MS, MSD
TRIP BLANK-01 (AS22670)	2 WEEK 08-20-15	08/06/2015	Water	E8260C	EPA Method 8260C	

¹The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.
²The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
³Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
⁴Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made. The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.
⁶Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

Reporting Parameters and Lists

Misc Field Analysis - Misc Field Analysis - (mg/L)

- Dissolved Oxygen (\$)
- pH (\$)
- Reduction Potential (\$)
- Specific Conductance (\$)
- Static Water Level (\$)

Misc Field Analysis - Misc Field Analysis - (mg/L)

- Temperature (\$)
- Turbidity (\$)

SM 5310B-00,-11 - Total Organic Carbon - (mg/L)

- Total Organic Carbon

Wet Chemistry - TOC/DTOC



Analytical Sample Results

Job Number: 15080208

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 Phone: 518.346.4592
 Fax: 518.381.6055

Client: Leader Consulting Services, Inc.
Project: VAILS GATE MANUFACTURING
Client Sample ID: FIELD DUPLICATE-01
Lab Sample ID: 15080208-01 (AS22665)

Collection Date: 08/06/2015 10:46
Sample Matrix: WATER
Received Date: 08/06/2015 14:35
Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: 804	SM 5310B	08/10/2015 16:53	JLM	NA	NA	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Total Organic Carbon	OC002	29.4	0.500	1.00		804

ND: Denotes analyte not detected at a concentration greater than the PQL.
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Analytical Sample Results

Job Number: 15080208

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 Phone: 518.346.4592
 Fax: 518.381.6055

Client: Leader Consulting Services, Inc.
Project: VAILS GATE MANUFACTURING
Client Sample ID: MW-5A/AR
Lab Sample ID: 15080208-02 (AS22666)

Collection Date: 08/06/2015 10:45
Sample Matrix: WATER
Received Date: 08/06/2015 14:35
Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: 804	SM 5310B	08/10/2015 17:17	JLM	NA	NA	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Total Organic Carbon	OC002	30.2	0.500	1.00		804

ND: Denotes analyte not detected at a concentration greater than the PQL.
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Analytical Sample Results

Job Number: 15080208

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 Phone: 518.346.4592
 Fax: 518.381.6055

Client: Leader Consulting Services, Inc.
Project: VAILS GATE MANUFACTURING
Client Sample ID: MW-14
Lab Sample ID: 15080208-03 (AS22667)

Collection Date: 08/06/2015 11:20
Sample Matrix: WATER
Received Date: 08/06/2015 14:35
Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: 805	SM 5310B	08/12/2015 10:47	JLM	NA	NA	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Total Organic Carbon	OC002	50.3	1.00	2.00		805

ND: Denotes analyte not detected at a concentration greater than the PQL.
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Analytical Sample Results

Job Number: 15080208

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 Phone: 518.346.4592
 Fax: 518.381.6055

Client: Leader Consulting Services, Inc.
Project: VAILS GATE MANUFACTURING
Client Sample ID: MW-16
Lab Sample ID: 15080208-04 (AS22668)

Collection Date: 08/06/2015 11:06
Sample Matrix: WATER
Received Date: 08/06/2015 14:35
Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: 804	SM 5310B	08/10/2015 17:43	JLM	NA	NA	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Total Organic Carbon	OC002	28.0	0.500	1.00		804

ND: Denotes analyte not detected at a concentration greater than the PQL.
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Analytical Sample Results

Job Number: 15080208

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 Phone: 518.346.4592
 Fax: 518.381.6055

Client: Leader Consulting Services, Inc.
Project: VAILS GATE MANUFACTURING
Client Sample ID: MW-CHA-RFI-7
Lab Sample ID: 15080208-05 (AS22669)

Collection Date: 08/06/2015 12:30
Sample Matrix: WATER
Received Date: 08/06/2015 14:35
Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: 804	SM 5310B	08/10/2015 17:56	JLM	NA	NA	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Total Organic Carbon	OC002	0.584	0.500	1.00		804

ND: Denotes analyte not detected at a concentration greater than the PQL.
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Field Analysis



Analytical Sample Results

Job Number: 15080208

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 Phone: 518.346.4592
 Fax: 518.381.6055

Client: Leader Consulting Services, Inc.
Project: VAILS GATE MANUFACTURING
Client Sample ID: MW-5A/AR
Lab Sample ID: 15080208-02 (AS22666)

Collection Date: 08/06/2015 10:45
Sample Matrix: WATER
Received Date: 08/06/2015 14:35
Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	Field Test	Field Analysis	08/06/2015 10:45	MEB	NA	NA

Analyte	CAS No.	Result	PQL	Dilution Factor	Flags	File ID
Dissolved Oxygen (\$)	7782-44-7	0.300 (mg/L)	0.00	1.00		Field Test
pH (\$)	NA	6.61 (pH)	0.00	1.00		Field Test
Reduction Potential (\$)	NA	-88.0 (mV)	0.00	1.00		Field Test
Specific Conductance (\$)	NA	1660 (umhos/cm)	0.00	1.00		Field Test
Static Water Level (\$)	NA	1.37 (ft btmp)	0.00	1.00		Field Test
Temperature (\$)	NA	23.1 (°C)	0.00	1.00		Field Test
Turbidity (\$)	NA	23.6 (NTU)	0.00	1.00		Field Test

ND: Denotes analyte not detected at a concentration greater than the PQL.
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
 Note: This is field generated data. (\$) NYSDOH-ELAP does not currently offer NELAC certification for this parameter.

5



Analytical Sample Results

Job Number: 15080208

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 Phone: 518.346.4592
 Fax: 518.381.6055

Client: Leader Consulting Services, Inc.
Project: VAILS GATE MANUFACTURING
Client Sample ID: MW-14
Lab Sample ID: 15080208-03 (AS22667)

Collection Date: 08/06/2015 11:20
Sample Matrix: WATER
Received Date: 08/06/2015 14:35
Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	Field Test	Field Analysis	08/06/2015 11:20	MEB	NA	NA

Analyte	CAS No.	Result	PQL	Dilution Factor	Flags	File ID
Dissolved Oxygen (\$)	7782-44-7	1.10 (mg/L)	0.00	1.00		Field Test
pH (\$)	NA	6.68 (pH)	0.00	1.00		Field Test
Reduction Potential (\$)	NA	0.00 (mV)	0.00	1.00		Field Test
Specific Conductance (\$)	NA	1730 (umhos/cm)	0.00	1.00		Field Test
Static Water Level (\$)	NA	4.17 (ft btmp)	0.00	1.00		Field Test
Temperature (\$)	NA	21.2 (°C)	0.00	1.00		Field Test
Turbidity (\$)	NA	188 (NTU)	0.00	1.00		Field Test

ND: Denotes analyte not detected at a concentration greater than the PQL.
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
 Note: This is field generated data. (\$) NYSDOH-ELAP does not currently offer NELAC certification for this parameter.

5



Analytical Sample Results

Job Number: 15080208

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 Phone: 518.346.4592
 Fax: 518.381.6055

Client: Leader Consulting Services, Inc.
Project: VAILS GATE MANUFACTURING
Client Sample ID: MW-16
Lab Sample ID: 15080208-04 (AS22668)

Collection Date: 08/06/2015 11:06
Sample Matrix: WATER
Received Date: 08/06/2015 14:35
Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	Field Test	Field Analysis	08/06/2015 11:06	MEB	NA	NA

Analyte	CAS No.	Result	PQL	Dilution Factor	Flags	File ID
Dissolved Oxygen (\$)	7782-44-7	0.400 (mg/L)	0.00	1.00		Field Test
pH (\$)	NA	6.28 (pH)	0.00	1.00		Field Test
Reduction Potential (\$)	NA	49.0 (mV)	0.00	1.00		Field Test
Specific Conductance (\$)	NA	2540 (umhos/cm)	0.00	1.00		Field Test
Static Water Level (\$)	NA	3.52 (ft btmp)	0.00	1.00		Field Test
Temperature (\$)	NA	21.0 (°C)	0.00	1.00		Field Test
Turbidity (\$)	NA	27.2 (NTU)	0.00	1.00		Field Test

ND: Denotes analyte not detected at a concentration greater than the PQL.
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
 Note: This is field generated data. (\$) NYSDOH-ELAP does not currently offer NELAC certification for this parameter.

5



Analytical Sample Results

Job Number: 15080208

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 Phone: 518.346.4592
 Fax: 518.381.6055

Client: Leader Consulting Services, Inc.
Project: VAILS GATE MANUFACTURING
Client Sample ID: MW-CHA-RFI-7
Lab Sample ID: 15080208-05 (AS22669)

Collection Date: 08/06/2015 12:30
Sample Matrix: WATER
Received Date: 08/06/2015 14:35
Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	Field Test	Field Analysis	08/06/2015 12:30	MEB	NA	NA

Analyte	CAS No.	Result	PQL	Dilution Factor	Flags	File ID
Dissolved Oxygen (\$)	7782-44-7	0.600 (mg/L)	0.00	1.00		Field Test
pH (\$)	NA	7.41 (pH)	0.00	1.00		Field Test
Reduction Potential (\$)	NA	20.0 (mV)	0.00	1.00		Field Test
Specific Conductance (\$)	NA	1520 (umhos/cm)	0.00	1.00		Field Test
Static Water Level (\$)	NA	0.00 (ft btmp)	0.00	1.00		Field Test
Temperature (\$)	NA	19.4 (°C)	0.00	1.00		Field Test
Turbidity (\$)	NA	7.10 (NTU)	0.00	1.00		Field Test

ND: Denotes analyte not detected at a concentration greater than the PQL.
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
 Note: This is field generated data. (\$) NYSDOH-ELAP does not currently offer NELAC certification for this parameter.

Quality Control Samples (Lab)



**Quality Control Results
Method Blank**

Job Number: 15080208

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: Leader Consulting Services, Inc.
Project: VAILS GATE MANUFACTURING
Client Sample ID: Method Blank (AS22665B)
Lab Sample ID: BLANK-01

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: 804	SM 5310B	08/10/2015 16:30	JLM	NA	NA	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Total Organic Carbon	OC002	ND	0.500	1.00	U	804

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results
Lab Control Sample (LCS)
Job Number: 15080208

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 Phone: 518.346.4592
 Fax: 518.381.6055

Client: Leader Consulting Services, Inc.
Project: VAILS GATE MANUFACTURING
Client Sample ID: Lab Control Sample (AS22665L)
Lab Sample ID: LCS-01

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	804	SM 5310B	08/10/2015 16:41	JLM	NA	NA	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	Q ¹	Limits (%)
Total Organic Carbon	OC002	10.0	10.3	103		80.0-120

¹Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Quality Control Results
Method Blank**

Job Number: 15080208

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: Leader Consulting Services, Inc.
Project: VAILS GATE MANUFACTURING
Client Sample ID: Method Blank (AS22667B)
Lab Sample ID: BLANK-01

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: 805	SM 5310B	08/12/2015 10:16	JLM	NA	NA	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Total Organic Carbon	OC002	ND	0.500	1.00	U	805

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results
Lab Control Sample (LCS)
Job Number: 15080208

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 Phone: 518.346.4592
 Fax: 518.381.6055

Client: Leader Consulting Services, Inc.
Project: VAILS GATE MANUFACTURING
Client Sample ID: Lab Control Sample (AS22667L)
Lab Sample ID: LCS-01

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	805	SM 5310B	08/12/2015 10:27	JLM	NA	NA	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	Q ¹	Limits (%)
Total Organic Carbon	OC002	10.0	9.73	97.3		80.0-120

¹Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Quality Control Results
Lab Control Sample - Duplicate (LCSD)
Job Number: 15080208

Pace Analytical Services, Inc.
 2190 Technology Drive
 Schenectady, NY 12308
 Phone: 518.346.4592
 Fax: 518.381.6055

Client: Leader Consulting Services, Inc.
Project: VAILS GATE MANUFACTURING
Client Sample ID: Lab Control Sample - Duplicate (AS22667S)
Lab Sample ID: LCSD-01

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: 805	SM 5310B	08/12/2015 10:33	JLM	NA	NA	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCSD (mg/L)	LCSD % Rec.	Q ¹	Limits (%)	Precision		
							LCS % Rec.	RPD	Q ¹
Total Organic Carbon	OC002	10.0	9.82	98.2		80.0-120	97.3	0.921	20

¹Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Subcontract Analysis



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive
Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 8/6/2015 10:46:00 AM

Received : 8/6/2015

AS22665

Collected By : CLIENT

Lab No. : 1508505-001

Client Sample ID: FIELD DUPLICATE-01

Sample Information:

Type : Aqueous

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: BL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,1,1-Trichloroethane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,1,2-Trichloroethane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,1-Dichloroethane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,1-Dichloroethene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,1-Dichloropropene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,2,3-Trichlorobenzene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,2,3-Trichloropropane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,2,4-Trimethylbenzene	6.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,2-Dibromo-3-chloropropane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,2-Dibromoethane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,2-Dichlorobenzene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,2-Dichloroethane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,2-Dichloropropane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,3,5-Trimethylbenzene/P-ethyltoluene	1.6		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,3-Dichlorobenzene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,3-Dichloropropane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
1,4-Dichlorobenzene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
2,2-Dichloropropane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
2-Butanone	< 5.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
2-Chloroethylvinyl ether	< 10	S	1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
2-Hexanone	< 5.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
4-Isopropyltoluene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
4-Methyl-2-pentanone	< 5.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Acetone	120		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Benzene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Bromobenzene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Bromochloromethane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

Caroleen P. Keenan

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive
Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 8/6/2015 10:46:00 AM

Received : 8/6/2015

AS22665

Collected By : CLIENT

Lab No. : 1508505-001

Client Sample ID: FIELD DUPLICATE-01

Sample Information:

Type : Aqueous

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: BL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Bromodichloromethane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Bromoform	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Bromomethane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Carbon disulfide	< 10		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Carbon tetrachloride	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Chlorobenzene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Chloroethane	560	D	5	µg/L	08/10/2015 6:21 PM	Container-02 of 03
Chloroform	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Chloromethane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
cis-1,2-Dichloroethene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
cis-1,3-Dichloropropene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Dibromochloromethane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Dibromomethane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Dichlorodifluoromethane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Ethylbenzene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Hexachlorobutadiene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Isopropylbenzene	1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
m,p-Xylene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Methyl tert-butyl ether	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Methylene chloride	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Naphthalene	3.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
n-Butylbenzene	1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
n-Propylbenzene	1.7		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
o-Xylene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
sec-Butylbenzene	1.3		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Styrene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
tert-Butylbenzene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Tetrachloroethene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Toluene	2.9		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
trans-1,2-Dichloroethene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
trans-1,3-Dichloropropene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Trichloroethene	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

Caitlin Plateron

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive
Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 8/6/2015 10:46:00 AM

Received : 8/6/2015 AS22665

Collected By : CLIENT

Lab No. : 1508505-001

Client Sample ID: FIELD DUPLICATE-01

Sample Information:

Type : Aqueous

Origin:

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Trichlorofluoromethane	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Vinyl acetate	< 10		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Vinyl chloride	< 1.0		1	µg/L	08/08/2015 11:33 PM	Container-01 of 03
Surr: 1,2-Dichloroethane-d4	102		1	%REC Limit 53-183	08/08/2015 11:33 PM	Container-01 of 03
Surr: 4-Bromofluorobenzene	105		1	%REC Limit 63-140	08/08/2015 11:33 PM	Container-01 of 03
Surr: Toluene-d8	101		1	%REC Limit 60-135	08/08/2015 11:33 PM	Container-01 of 03

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Sulfate	< 5.00		1	mg/L	08/20/2015 11:45 AM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

Caitlin Robinson

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive
Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 8/6/2015 10:45:00 AM

Received : 8/6/2015

AS22666

Collected By : CLIENT

Lab No. : 1508505-002

Client Sample ID: MW-5A/AR

Sample Information:

Type : Aqueous

Origin:

Analytical Method: SW8260C :	Prep Method: 6030C			Analyst: BL		
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,1,1-Trichloroethane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,1,2-Trichloroethane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,1-Dichloroethane	3.5		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,1-Dichloroethene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,1-Dichloropropene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,2,3-Trichlorobenzene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,2,3-Trichloropropane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,2,4-Trimethylbenzene	5.1		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,2-Dibromo-3-chloropropane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,2-Dibromoethane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,2-Dichlorobenzene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,2-Dichloroethane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,2-Dichloropropane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,3,5-Trimethylbenzene/P-ethyltoluene	1.4		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,3-Dichlorobenzene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,3-Dichloropropane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
1,4-Dichlorobenzene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
2,2-Dichloropropane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
2-Butanone	< 5.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
2-Chloroethylvinyl ether	< 10	S	1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
2-Hexanone	< 5.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
4-Isopropyltoluene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
4-Methyl-2-pentanone	< 5.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Acetone	110		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Benzene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Bromobenzene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Bromochloromethane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

Carlin Stachinon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive
Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 8/6/2015 10:45:00 AM

Received : 8/6/2015

AS22666

Collected By : CLIENT

Lab No. : 1508505-002

Client Sample ID: MW-5A/AR

Sample Information:

Type : Aqueous

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: BL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Bromodichloromethane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Bromoform	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Bromomethane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Carbon disulfide	< 10		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Carbon tetrachloride	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Chlorobenzene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Chloroethane	540	D	5	µg/L	08/10/2015 6:45 PM	Container-02 of 03
Chloroform	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Chloromethane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
cis-1,2-Dichloroethene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
cis-1,3-Dichloropropene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Dibromochloromethane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Dibromomethane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Dichlorodifluoromethane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Ethylbenzene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Hexachlorobutadiene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Isopropylbenzene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
m,p-Xylene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Methyl tert-butyl ether	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Methylene chloride	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Naphthalene	2.7		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
n-Butylbenzene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
n-Propylbenzene	1.5		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
o-Xylene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
sec-Butylbenzene	1.2		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Styrene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
tert-Butylbenzene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Tetrachloroethene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Toluene	2.8		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
trans-1,2-Dichloroethene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
trans-1,3-Dichloropropene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Trichloroethene	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

Caitlin O'Keefe

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive
Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 8/6/2015 10:45:00 AM

Received : 8/6/2015

AS22666

Collected By : CLIENT

Lab No. : 1508505-002

Client Sample ID: MW-5A/AR

Sample Information:

Type : Aqueous

Origin:

Analytical Method: SW8260C :		Prep Method: 5030C			Analyst: BL	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Trichlorofluoromethane	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Vinyl acetate	< 10		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Vinyl chloride	< 1.0		1	µg/L	08/08/2015 11:57 PM	Container-01 of 03
Surr: 1,2-Dichloroethane-d4	99.2		1	%REC Limit 53-183	08/08/2015 11:57 PM	Container-01 of 03
Surr: 4-Bromofluorobenzene	98.8		1	%REC Limit 63-140	08/08/2015 11:57 PM	Container-01 of 03
Surr: Toluene-d8	95.4		1	%REC Limit 60-135	08/08/2015 11:57 PM	Container-01 of 03

Analytical Method: E300.0 :					Analyst: bka	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Sulfate	< 5.00		1	mg/L	08/20/2015 11:59 AM	Container-01 of 01

- Qualifiers:** E = Value above quantitation range, Value estimated.
 B = Found in Blank
 D.F. = Dilution Factor D = Results for Dilution
 H = Received/analyzed outside of analytical holding time
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method
 c = Calibration acceptability criteria exceeded for this analyte
 R = Reporting limit below calibration range. Value estimated.
 J = Estimated value - below calibration range
 S = Recovery exceeded control limits for this analyte
 N = Indicates presumptive evidence of compound

Date Reported :

Carlin Hutchinson

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive
Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 8/6/2015 11:20:00 AM

Received : 8/6/2015

AS22667

Collected By : CLIENT

Lab No. : 1508505-003

Client Sample ID: MW-14

Sample Information:

Type : Aqueous

Origin:

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,1,1-Trichloroethane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,1,2-Trichloroethane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,1-Dichloroethane	31		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,1-Dichloroethene	3.6		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,1-Dichloropropene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,2,3-Trichlorobenzene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,2,3-Trichloropropane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,2-Dibromo-3-chloropropane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,2-Dibromoethane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,2-Dichlorobenzene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,2-Dichloroethane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,2-Dichloropropane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,3,5-Trimethylbenzene/P-ethyltoluene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,3-Dichlorobenzene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,3-Dichloropropane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
1,4-Dichlorobenzene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
2,2-Dichloropropane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
2-Butanone	< 5.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
2-Chloroethylvinyl ether	< 10	S	1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
2-Hexanone	< 5.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
4-Isopropyltoluene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
4-Methyl-2-pentanone	< 5.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Acetone	12		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Benzene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Bromobenzene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Bromochloromethane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

Cristina Stokerson

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive
Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 8/6/2015 11:20:00 AM

Received : 8/6/2015

AS22667

Collected By : CLIENT

Lab No. : 1508505-003

Client Sample ID: MW-14

Sample Information:

Type : Aqueous

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: BL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Bromodichloromethane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Bromoform	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Bromomethane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Carbon disulfide	< 10		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Carbon tetrachloride	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Chlorobenzene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Chloroethane	8.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Chloroform	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Chloromethane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
cis-1,2-Dichloroethene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
cis-1,3-Dichloropropene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Dibromochloromethane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Dibromomethane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Dichlorodifluoromethane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Ethylbenzene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Hexachlorobutadiene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Isopropylbenzene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
m,p-Xylene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Methyl tert-butyl ether	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Methylene chloride	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Naphthalene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
n-Butylbenzene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
n-Propylbenzene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
o-Xylene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
sec-Butylbenzene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Styrene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
tert-Butylbenzene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Tetrachloroethene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Toluene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
trans-1,2-Dichloroethene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
trans-1,3-Dichloropropene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Trichloroethene	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Page 8 of 20



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive
Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 8/6/2015 11:20:00 AM

Received : 8/6/2015

AS22667

Collected By : CLIENT

Lab No. : 1508505-003

Client Sample ID: MW-14

Sample Information:

Type : Aqueous

Origin:

<u>Analytical Method:</u> SW8260C :		<u>Prep Method:</u> 5030C			<u>Analyst:</u> BL	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
Trichlorofluoromethane	< 1.0		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Vinyl acetate	< 10		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Vinyl chloride	3.1		1	µg/L	08/09/2015 12:22 AM	Container-01 of 03
Surr: 1,2-Dichloroethane-d4	102		1	%REC Limit 53-183	08/09/2015 12:22 AM	Container-01 of 03
Surr: 4-Bromofluorobenzene	101		1	%REC Limit 63-140	08/09/2015 12:22 AM	Container-01 of 03
Surr: Toluene-d8	96.8		1	%REC Limit 60-135	08/09/2015 12:22 AM	Container-01 of 03

<u>Analytical Method:</u> E300.0 :					<u>Analyst:</u> bka	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>
Sulfate	< 5.00		1	mg/L	08/20/2015 12:12 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

Caitlin Plateron

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive
 Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 8/6/2015 11:06:00 AM

Received : 8/6/2015

Collected By : CLIENT

AS22668

Lab No. : 1508505-004

Client Sample ID: MW-16

Sample Information:

Type : Aqueous

Origin:

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,1,1-Trichloroethane	5.6		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,1,2-Trichloroethane	1.9		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,1-Dichloroethane	73		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,1-Dichloroethene	33		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,1-Dichloropropene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,2,3-Trichlorobenzene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,2,3-Trichloropropane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,2-Dibromo-3-chloropropane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,2-Dibromoethane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,2-Dichlorobenzene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,2-Dichloroethane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,2-Dichloropropane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,3,5-Trimethylbenzene/P-ethyltoluene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,3-Dichlorobenzene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,3-Dichloropropane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
1,4-Dichlorobenzene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
2,2-Dichloropropane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
2-Butanone	< 5.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
2-Chloroethylvinyl ether	< 10	S	1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
2-Hexanone	< 5.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
4-Isopropyltoluene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
4-Methyl-2-pentanone	< 5.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Acetone	< 10		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Benzene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Bromobenzene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Bromochloromethane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.
 B = Found in Blank
 D.F. = Dilution Factor D = Results for Dilution
 H = Received/analyzed outside of analytical holding time
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method
 c = Calibration acceptability criteria exceeded for this analyte
 R = Reporting limit below calibration range. Value estimated.
 S = Estimated value - below calibration range
 S = Recovery exceeded control limits for this analyte
 N = Indicates presumptive evidence of compound

Carlin Stachinon
 Project Manager

Test results meet the requirements of NELAC unless otherwise noted.
 This report shall not be reproduced except in full, without the written approval of the laboratory.

Date Reported :



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive
Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 8/6/2015 11:08:00 AM

Received : 8/6/2015

AS22668

Collected By : CLIENT

Lab No. : 1508505-004
Client Sample ID: MW-16

Sample Information:

Type : Aqueous

Origin:

Analytical Method: SW8260C	Prep Method: 5030C			Analyst: BL		
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Bromodichloromethane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Bromoform	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Bromomethane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Carbon disulfide	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Carbon tetrachloride	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Chlorobenzene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Chloroethane	3.7		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Chloroform	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Chloromethane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
cis-1,2-Dichloroethene	3.4		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
cis-1,3-Dichloropropene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Dibromochloromethane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Dibromomethane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Dichlorodifluoromethane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Ethylbenzene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Hexachlorobutadiene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Isopropylbenzene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
m,p-Xylene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Methyl tert-butyl ether	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Methylene chloride	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Naphthalene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
n-Butylbenzene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
n-Propylbenzene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
o-Xylene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
sec-Butylbenzene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Styrene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
tert-Butylbenzene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Tetrachloroethene	11		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Toluene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
trans-1,2-Dichloroethene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
trans-1,3-Dichloropropene	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Trichloroethene	1.2		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

Cadlin Robinson

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive
Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 8/6/2015 11:06:00 AM

Received : 8/6/2015

AS22668

Collected By : CLIENT

Lab No. : 1508505-004

Client Sample ID: MW-16

Sample Information:

Type : Aqueous

Origin:

Analytical Method: SW8260C :		Prep Method: 5030C			Analyst: BL	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Trichlorofluoromethane	< 1.0		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Vinyl acetate	< 10		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Vinyl chloride	7.6		1	µg/L	08/09/2015 12:46 AM	Container-01 of 03
Surr: 1,2-Dichloroethane-d4	104		1	%REC Limit 53-183	08/09/2015 12:46 AM	Container-01 of 03
Surr: 4-Bromofluorobenzene	99.1		1	%REC Limit 63-140	08/09/2015 12:46 AM	Container-01 of 03
Surr: Toluene-d8	98.2		1	%REC Limit 60-135	08/09/2015 12:46 AM	Container-01 of 03

Analytical Method: E300.0 :					Analyst: bka	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Sulfate	25.3		1	mg/L	08/20/2015 12:26 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive
Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 8/6/2015 12:30:00 PM

Received : 8/6/2015

AS22669

Collected By : CLIENT

Lab No. : 1508505-005

Client Sample ID: MW-CHA-RFI-7

Sample Information:

Type : Aqueous

Origin:

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,1,1-Trichloroethane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,1,2-Trichloroethane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,1-Dichloroethane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,1-Dichloroethene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,1-Dichloropropene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,2,3-Trichlorobenzene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,2,3-Trichloropropane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,2-Dibromo-3-chloropropane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,2-Dibromoethane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,2-Dichlorobenzene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,2-Dichloroethane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,2-Dichloropropane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,3,5-Trimethylbenzene/P-ethyltoluene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,3-Dichlorobenzene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,3-Dichloropropane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
1,4-Dichlorobenzene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
2,2-Dichloropropane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
2-Butanone	< 5.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
2-Chloroethylvinyl ether	< 10	S	1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
2-Hexanone	< 5.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
4-Isopropyltoluene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
4-Methyl-2-pentanone	< 5.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Acetone	< 10		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Benzene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Bromobenzene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Bromochloromethane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

Cassidy Steadman

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive
Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 8/6/2015 12:30:00 PM

Received : 8/6/2015

AS22669

Collected By : CLIENT

Lab No. : 1508505-005

Client Sample ID: MW-CHA-RFI-7

Sample Information:

Type : Aqueous

Origin:

Analytical Method: SW8260C :

Prep Method: 5030C

Analyst: BL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Bromodichloromethane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Bromoform	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Bromomethane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Carbon disulfide	< 10		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Carbon tetrachloride	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Chlorobenzene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Chloroethane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Chloroform	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Chloromethane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
cis-1,2-Dichloroethene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
cis-1,3-Dichloropropene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Dibromochloromethane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Dibromomethane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Dichlorodifluoromethane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Ethylbenzene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Hexachlorobutadiene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Isopropylbenzene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
m,p-Xylene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Methyl tert-butyl ether	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Methylene chloride	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Naphthalene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
n-Butylbenzene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
n-Propylbenzene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
o-Xylene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
sec-Butylbenzene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Styrene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
tert-Butylbenzene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Tetrachloroethene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Toluene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
trans-1,2-Dichloroethene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
trans-1,3-Dichloropropene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Trichloroethene	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09

Qualifiers: E = Value above quantitation range, Value estimated.
 B = Found in Blank
 D.F. = Dilution Factor D = Results for Dilution
 H = Received/analyzed outside of analytical holding time
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method
 c = Calibration acceptability criteria exceeded for this analyte
 R = Reporting limit below calibration range. Value estimated.
 J = Estimated value - below calibration range
 S = Recovery exceeded control limits for this analyte
 N = Indicates presumptive evidence of compound

Date Reported :

Carolin Peterson

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
 2190 Technology Drive
 Schenectady, NY 12308

Lab No. : **1508505-005**
 Client Sample ID: **MW-CHA-RFI-7**

Sample Information:
 Type: Aqueous

Attn To : William A. Kotas
 Collected : 8/6/2015 12:30:00 PM
 Received : 8/6/2015 AS22669
 Collected By : CLIENT

Origin:

Analytical Method: SW8260C :		Prep Method: 5030C			Analyst: BL	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Trichlorofluoromethane	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Vinyl acetate	< 10		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Vinyl chloride	< 1.0		1	µg/L	08/09/2015 1:10 AM	Container-01 of 09
Surr: 1,2-Dichloroethane-d4	103		1	%REC Limit 53-183	08/09/2015 1:10 AM	Container-01 of 09
Surr: 4-Bromofluorobenzene	99.8		1	%REC Limit 63-140	08/09/2015 1:10 AM	Container-01 of 09
Surr: Toluene-d8	97.2		1	%REC Limit 60-135	08/09/2015 1:10 AM	Container-01 of 09

Analytical Method: E300.0 :					Analyst: bka	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Sulfate	32.7		1	mg/L	08/20/2015 12:39 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.
 B = Found in Blank
 D.F. = Dilution Factor D = Results for Dilution
 H = Received/analyzed outside of analytical holding time
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method
 c = Calibration acceptability criteria exceeded for this analyte
 R = Reporting limit below calibration range. Value estimated.
 J = Estimated value - below calibration range
 S = Recovery exceeded control limits for this analyte
 N = Indicates presumptive evidence of compound
 Date Reported :

Cadlin Hutchinson
 Project Manager

Test results meet the requirements of NELAC unless otherwise noted.
 This report shall not be reproduced except in full, without the written approval of the laboratory.



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
 2190 Technology Drive
 Schenectady, NY 12308

Lab No. : 1508505-006

Sample Information:

Type : Trip Blank

Client Sample ID: TRIP BLANK-01

Origin:

Attn To : William A. Kotas

Collected : 8/6/2015

Received : 8/6/2015

AS22670

Collected By : CLIENT

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,1,1-Trichloroethane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,1,2-Trichloroethane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,1-Dichloroethane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,1-Dichloroethene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,1-Dichloropropene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,2,3-Trichlorobenzene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,2,3-Trichloropropane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,2-Dibromo-3-chloropropane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,2-Dibromoethane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,2-Dichlorobenzene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,2-Dichloroethane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,2-Dichloropropane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,3,5-Trimethylbenzene/P-ethyltoluene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,3-Dichlorobenzene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,3-Dichloropropane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
1,4-Dichlorobenzene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
2,2-Dichloropropane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
2-Butanone	< 5.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
2-Chloroethylvinyl ether	< 10	S	1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
2-Hexanone	< 5.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
4-Isopropyltoluene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
4-Methyl-2-pentanone	< 5.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Acetone	< 10		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Benzene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Bromobenzene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Bromochloromethane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

R = Reporting limit below calibration range. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

Cadlin P. Robinson

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.

2190 Technology Drive
Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 8/6/2015

Received : 8/6/2015

Collected By : CLIENT

AS22670

Lab No. : 1508505-006

Client Sample ID: TRIP BLANK-01

Sample Information:

Type : Trip Blank

Origin:

Analytical Method: SW8260C

Prep Method: 5030C

Analyst: BL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Bromodichloromethane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Bromoform	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Bromomethane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Carbon disulfide	< 10		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Carbon tetrachloride	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Chlorobenzene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Chloroethane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Chloroform	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Chloromethane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
cis-1,2-Dichloroethene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
cis-1,3-Dichloropropene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Dibromochloromethane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Dibromomethane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Dichlorodifluoromethane	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Ethylbenzene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Hexachlorobutadiene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Isopropylbenzene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
m,p-Xylene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Methyl tert-butyl ether	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Methylene chloride	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Naphthalene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
n-Butylbenzene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
n-Propylbenzene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
o-Xylene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
sec-Butylbenzene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Styrene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
tert-Butylbenzene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Tetrachloroethene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Toluene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
trans-1,2-Dichloroethene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
trans-1,3-Dichloropropene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02
Trichloroethene	< 1.0		1	µg/L	08/08/2015 11:08 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
 B = Found in Blank
 D.F. = Dilution Factor D = Results for Dilution
 H = Received/analyzed outside of analytical holding time
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method
 c = Calibration acceptability criteria exceeded for this analyte
 R = Reporting limit below calibration range. Value estimated.
 J = Estimated value - below calibration range
 S = Recovery exceeded control limits for this analyte
 N = Indicates presumptive evidence of compound

Date Reported :

Caroline Sturges

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
 2190 Technology Drive
 Schenectady, NY 12308

Lab No. : **1508505-006**
 Client Sample ID: **TRIP BLANK-01**

Sample Information:
 Type : Trip Blank

Attn To : William A. Kotas
 Collected : 8/6/2015
 Received : 8/6/2015 AS22670
 Collected By : CLIENT

Origin:

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Trichlorofluoromethane	< 1.0		1	µg/L		08/08/2015 11:08 PM	Container-01 of 02
Vinyl acetate	< 10		1	µg/L		08/08/2015 11:08 PM	Container-01 of 02
Vinyl chloride	< 1.0		1	µg/L		08/08/2015 11:08 PM	Container-01 of 02
Surr: 1,2-Dichloroethane-d4	104		1	%REC	Limit 53-183	08/08/2015 11:08 PM	Container-01 of 02
Surr: 4-Bromofluorobenzene	100		1	%REC	Limit 63-140	08/08/2015 11:08 PM	Container-01 of 02
Surr: Toluene-d8	98.0		1	%REC	Limit 60-135	08/08/2015 11:08 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
 B = Found in Blank
 D.F. = Dilution Factor D = Results for Dilution
 H = Received/analyzed outside of analytical holding time
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method
 c = Calibration acceptability criteria exceeded for this analyte
 R = Reporting limit below calibration range. Value estimated.
 J = Estimated value - below calibration range
 S = Recovery exceeded control limits for this analyte
 N = Indicates presumptive evidence of compound

Caitlin P. DeSimone
 Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Date Reported :



575 Broad Hollow Road
Melville, NY 11747

tel. 631.694.3040
fax. 631.420.8436

QUALIFIERS FOR METALS ANALYSIS

Q (Quality Control) Qualifiers

- E - Serial dilution is not within acceptance criteria or the reported value is estimated because of the presence of interference. An explanatory note is included in the SDG narrative.
- N - Matrix spike sample recovery not within control limits.
- * - Duplicate analysis is not within control limits.

C (Concentration) Qualifiers

- B - Entered if the reported value is less than the Contract Required Detection Limit (CRDL) but greater than the Instrument Detection Limit (IDL).
- U - Entered if the analyte was analyzed for but not detected, i.e., less than the IDL.

M (Method) Qualifiers

- P - Analyzed by ICP.
- MS - Analyzed by ICP-MS
- CV - Analyzed by Manual Cold Vapor techniques.
- AV - Analyzed by Automated Cold Vapor techniques.
- C - Analyzed by Manual Spectrophotometric Method.
- CA- Analyzed by Midi-distillation Spectrophotometric Method.
- NR - Analyte not Required.

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

FIELD DUPLICATE-01

Lab Name: PACE ANALYTICAL

Contract:

Lab Code: 10478

Case No.

NRAS No.:

SDG No.: PACE-NY252

Matrix (soil/water): WATER

Lab Sample ID: 1508505-001

Level (low/med): LOW

Date Received: 08/06/2015

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	5510			P

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW-5A/AR

Lab Name: PACE ANALYTICAL

Contract:

Lab Code: 10478

Case No.

NRAS No.:

SDG No.: PACE-NY252

Matrix (soil/water): WATER

Lab Sample ID: 1508505-002

Level (low/med): LOW

Date Received: 08/06/2015

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	6050			P

7

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW-14

Lab Name: PACE ANALYTICAL

Contract:

Lab Code: 10478

Case No.

NRAS No.:

SDG No.: PACE-NY252

Matrix (soil/water): WATER

Lab Sample ID: 1508505-003

Level (low/med): LOW

Date Received: 08/06/2015

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	9920			P

7

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW-16

Lab Name: PACE ANALYTICAL

Contract:

Lab Code: 10478

Case No.

NRAS No.:

SDG No.: PACE-NY252

Matrix (soil/water): WATER

Lab Sample ID: 1508505-004

Level (low/med): LOW

Date Received: 08/06/2015

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	12.2	J		P

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW-CHA-RFI-7

Lab Name: PACE ANALYTICAL

Contract:

Lab Code: 10478

Case No.

NRAS No.:

SDG No.: PACE-NY252

Matrix (soil/water): WATER

Lab Sample ID: 1508505-005

Level (low/med): LOW

Date Received: 08/06/2015

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	100	U		P

Comments:



PACE ANALYTICAL
 575 Broad Hollow Road
 Melville, NY 11747
 TEL: (631) 694-3040 FAX: (631) 420-8436
 Website: www.pacelabs.com

Sample Receipt Checklist

Client Name: **PACE-NY**

Date and Time Received: **8/6/2015**

Work Order Number: **1508505**

RcptNo: **1**

Received by: **Ajay Singh**

Completed by:

John State

Reviewed by:

Samir Ar

Completed Date: 8/7/2015 5:45:23 PM

Reviewed Date: 8/13/2015 10:03:43 PM

Carrier name: PACE Pickup

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Are matrices correctly identified on Chain of custody? Yes No
- Is it clear what analyses were requested? Yes No
- Custody seals intact on sample bottles? Yes No Not Present
- Samples in proper container/bottle? Yes No
- Were correct preservatives used and noted? Yes No NA
- Preservative added to bottles:
- Sample Condition? Intact Broken Leaking
- Sufficient sample volume for indicated test? Yes No
- Were container labels complete (ID, Pres, Date)? Yes No
- All samples received within holding time? Yes No
- Was an attempt made to cool the samples? Yes No NA
- All samples received at a temp. of > 0° C to 6.0° C? Yes No NA
- Response when temperature is outside of range:
- Sample Temp. taken and recorded upon receipt? Yes No To 3.2°
- Water - Were bubbles absent in VOC vials? Yes No No Vials
- Water - Was there Chlorine Present? Yes No NA
- Water - pH acceptable upon receipt? Yes No No Water
- Are Samples considered acceptable? Yes No
- Custody Seals present? Yes No
- Airbill or Sticker? Air Bill Sticker Not Present

Case Number:

SDG:
 PACE-NY252

SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? Yes No NA Person Contacted:
 Contact Mode: Phone: Fax: Email: In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

Sample preservation not verified at Schenectady lab.

CorrectiveAction:

WorkOrder :
1508505

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350



Attachment B

Data Validation Summary



Data Usability Summary Report – October 2015
Vails Gate
737.002

Data Usability

The Quality Assurance Project Plan (“QAPP”) prepared for this project, by ME Holvey Consulting, LLC (“MEHC”) presents the policies, organization, objectives, functional activities, and specific Quality Assurance (“QA”) and Quality Control (“QC”) measures designed to achieve the data quality goals associated with this investigation. The QAPP identifies procedures for sample preparation and handling, sample chain-of-custody, laboratory analyses, and reporting that were implemented during this investigation to ensure the accuracy and integrity of the data generated during the investigation.

Leader Consulting Services, Inc. conducted the Site Investigation and Remedial Activities of the Vails Gate site.

Data Summary

The Data Usability Review and Data Validation Compliance Chart has been completed for the laboratory deliverable packages generated by Pace Analytical Laboratories, Inc. (“Pace”), pertaining to samples collected at the Vails Gate Site on August 6, 2015. A total of six (6) samples were collected during the August 2015 sampling event and analyzed for VOCs, metals, and wet chemistry. The following USEPA Methodologies were used to analyze these samples for the following analytes:

- Volatiles (VOCs) USEPA Method 8260
- Dissolved Iron by ICP USEPA Method 200.7 Rev. 4.4
- Miscellaneous Field Analysis Dissolved Oxygen, pH, Reduction Potential, Temperature, Turbidity
- Total Organic Carbon (“TOC”) USEPA SM 5310B-00.11
- Sulfate USEPA 300.0

Trip/Holding blanks, field duplicate, surrogates, internal standards, reference samples, matrix spikes, and matrix spike duplicates were also processed.

Samples were collected and received on the following schedule:

Sample Package ID	Date Collected	Date Received by Pace	Sample Matrix	Requested Analyses	Sample Temperature (°C)
15080208	08/06/2015	08/06/2015 (Schenectady) 08/06/2105 (Long Island)	Water	TCL 8260 Metals Misc. Field Analysis Nitrate TOC Sulfate	3.2

Data usability and validation was performed with guidance from the most current editions of the USEPA CLP National Functional Guidelines for Inorganic and Organic Data Review. The following items were reviewed:

- Data Completeness;
- Custody Documentation;
- Holding Times;
- Sample Blanks Review;
- Field Duplicate Samples;
- Matrix Spike Samples and Duplicates; and
- Control Spike/Laboratory Control Samples.

Those items showing deficiencies, if any, are discussed in the attached Data Validation Compliance Chart. All others were found to be acceptable as outlined in the above-mentioned usability procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the reported data, and generated in compliance with protocol requirements.

In summary, sample processing was conducted with compliance to protocol requirements and with adherence to quality criteria and the reported results are considered “usable”.

The Data Validation Compliance Chart is also included with this report.

Accuracy, Precision, and Sensitivity of Analyses

The fundamental QA objective with respect to the accuracy, precision, and sensitivity of analytical data is to achieve the QC acceptance of each analytical protocol. Accuracy and precision are determined using matrix spike (“MS”) and matrix spike duplicate (“MSD”) samples.

Accuracy is a measure of the difference of a set of analytical results to the accepted or expected values. Accuracy was assessed by using the MS/MSD and surrogate spike recovery data. Recovery values were reported within the QC limits for each analytical parameter group.

Precision is a measure of the mutual agreement between measurements of the same parameter.

The sample results for the Vails Gate Project are considered “usable”.

Completeness, Representativeness, and Comparability of Data

Completeness is the measure of the amount of valid data obtained from a measurement system compared with the amount that was expected to be obtained under normal conditions. Review of the analytical data packages provided by Pace indicates that the requested parameters were analyzed for and reported by the laboratory for each sample submitted under proper chain-of-custody procedures. Based upon MEHC’s review of the laboratory data, a usable data level was achieved.

Representativeness of the data is obtained through the design of the sampling program and the adherence to established sample collection procedures, sample-handling SOPs, and analytical procedures. The sampling program outlined in the Work Plan was designed to provide for data representative of site conditions taking into consideration past disposal practices, existing data

from past studies, and the physical site setting. Each of the soil borings and monitoring wells were installed in accordance with established industry and regulatory protocols. The laboratory maintained all holding times for the specific analytical protocols.

Comparability of the data is derived from the evaluation of field duplicate samples and the adherence to established sampling and analytical procedures. A field duplicate is an independent sample collected as close as possible to the original aliquot from the same sampling point. All of the groundwater samples were analyzed utilizing standardized USEPA methodologies performed in accordance with the latest version of the NYSDEC ASP protocols.

Quality Control Checks

Holding/Storage Blanks

Holding blanks are samples of reagent water prepared by the laboratory and carried through the field sampling and sample handling and shipping process. Holding blanks are analyzed as separate samples to evaluate the level of contamination associated with the collection, handling, and/or shipping of the VOC sample aliquots.

For this investigation, a holding blank was not submitted with samples collected on August 6, 2015.

Trip Blanks

A trip blank is provided with each shipping container of samples to be analyzed for volatile organic compounds (VOCs). Analysis of trip blanks determines whether a sample bottle was contaminated during shipment from the manufacturer, while in bottle storage, in shipment to the laboratory, or during analysis at a laboratory. Trip blanks consist of an aliquot of distilled water sealed in a sample bottle, prepared by the analytical laboratory prior to shipping the sample bottles. A Trip blank was included with the shipment of aqueous samples for VOC analysis.

For this investigation, a trip blank was submitted with the VOC aliquot of the groundwater samples collected on August 6, 2015. No VOC compounds were detected in the trip blank analyzed during this investigation.

Field Blanks

Given that dedicated sampling equipment was utilized for the collection of each groundwater sample, field blanks were not collected or analyzed during this sampling event.

Method Blanks

A method blank is a sample of reagent water, which is carried through the analytical procedure alongside the project samples to determine the level of laboratory background and reagent contamination.

For this investigation, a method blank was submitted with the VOC aliquot of the groundwater samples collected on August 6, 2015. No VOC compounds were detected in the method blank analyzed during this investigation.

Matrix Spike/Matrix Spike Duplicate Samples

For the Vails Gate project, one (1) MS/MSD was collected and analyzed. The following sample results are mostly acceptable but positive results may be considered estimated due to the MS/MSD data being outside acceptable limits:

- Sample MW-CHA-RFI-7 was analyzed as the matrix spike/matrix spike duplicate (MS/MSD). All percent recoveries and relative percent differences (“RPD”) were met except for 4 out of 132 percent recoveries. A lab fortified blank was analyzed – recoveries for one (1) analyte did not meet the QC limits.

These results are detailed in the Data Validation Compliance Chart.

Surrogate Analyses

Surrogates are compounds added directly to every standard, blank, MS/MSD, and sample at a known concentration, prior to extraction or analysis; and used to evaluate the analytical efficiency by measuring percent recovery of those compounds upon analysis. The laboratory reported surrogate recoveries were within established QC limits for the surrogates in each analyzed sample.

The sample results for the Vails Gate Project are considered “usable”.

**Data Validation Compliance Chart
Vails Gate**

August 6, 2015 Sampling Event

Sample ID	15080208			
Matrix	Water			
Analysis	TCL 8260	Metals (Dissolved Iron Only)	Miscellaneous Field Parameters	Wet Chemistry:
Holding Times	Samples were analyzed within USEPA holding times.	Samples were analyzed within USEPA holding times	Samples were analyzed in the field.	Samples were analyzed within USEPA holding times
Calibration	In the initial calibrations, average response factors were employed as applicable, and regression functions were used for the compounds with an RSD above 20%. In the continuing calibration verification(s) (CCV), the variability for some compounds was above 20%. No results were flagged with a "Z" qualifier. All data quality objectives were satisfied.	All quality assurance parameters were met for these analyses.	All quality assurance parameters were met for these analyses.	All quality assurance parameters were met for these analyses.
Method Blanks	A lab fortified blank was analyzed – recoveries for one (1) analyte did not meet the QC limits. All quality assurance parameters were met for these analyses.	All quality assurance parameters were met for these analyses.	All quality assurance parameters were met for these analyses.	All quality assurance parameters were met for these analyses.
Matrix Spike/Matrix Spike Duplicate	Sample MW-CHA-RFI-7 was analyzed as the matrix spike/matrix spike duplicate (MS/MSD) – All percent recoveries and relative percent differences (“RPD”) were met except for 4 out of 132 percent recoveries. All data quality objectives were satisfied.	All quality assurance parameters were met for these analyses.	All quality assurance parameters were met for these analyses.	All quality assurance parameters were met for these analyses.
Surrogates	All data quality objectives were satisfied.	All quality assurance parameters were met for these analyses.	All quality assurance parameters were met for these analyses.	All quality assurance parameters were met for these analyses.

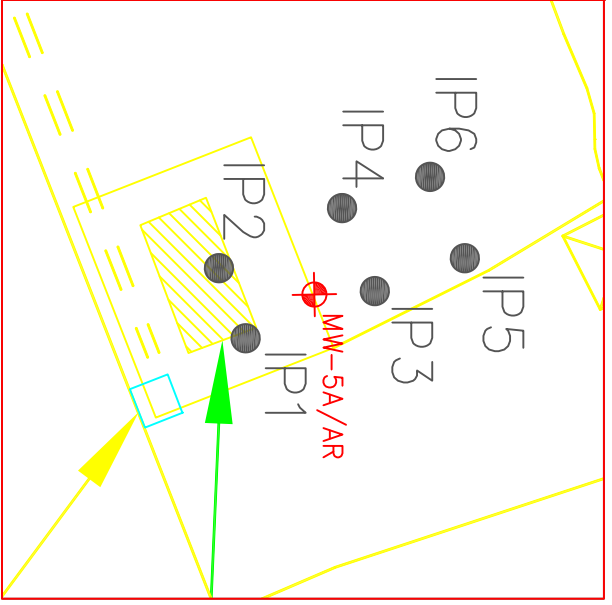
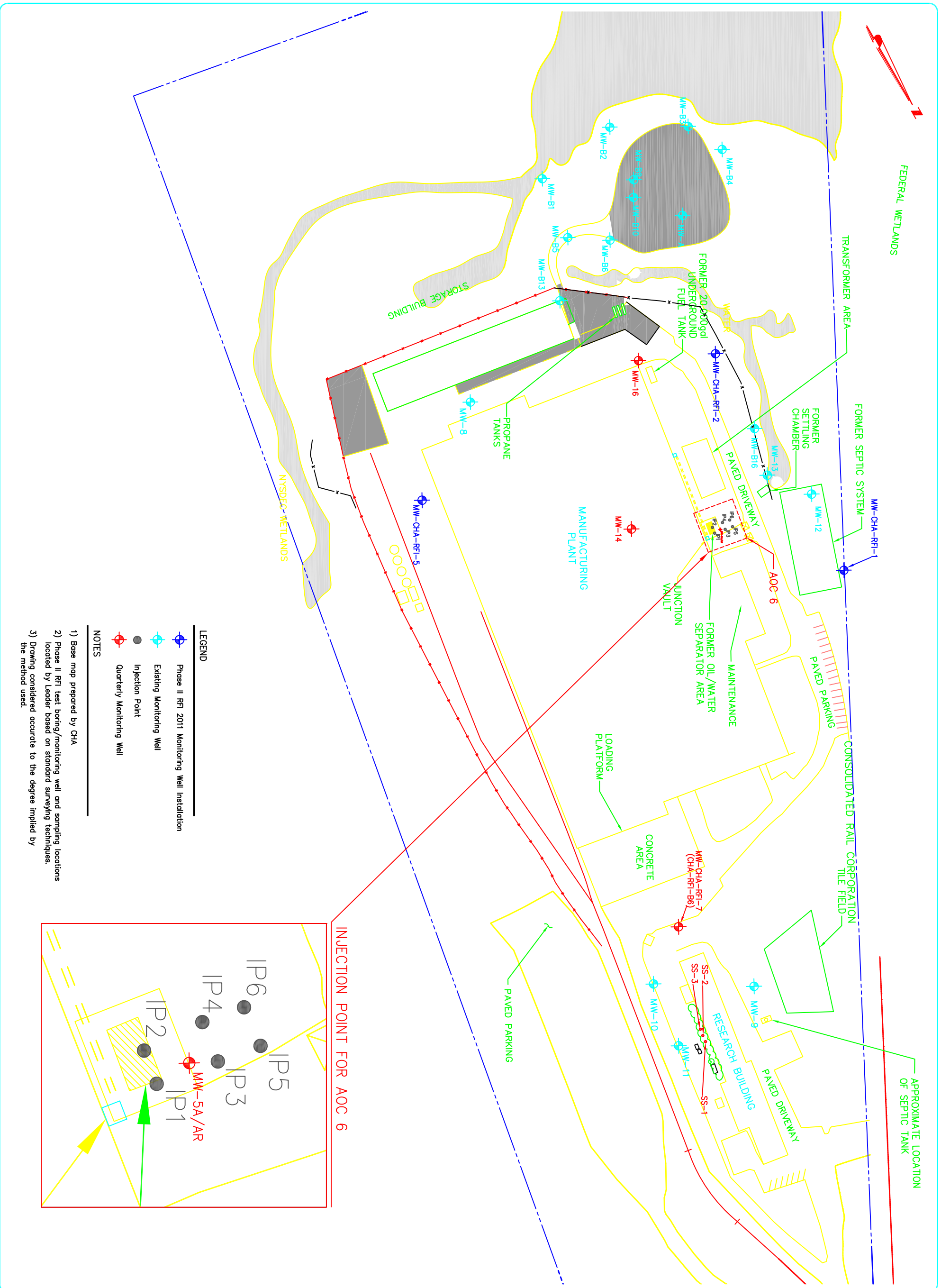
**Data Validation Compliance Chart
Vails Gate**

Sample ID	15080208			
Matrix	Water			
Internal Standards	All data quality objectives were satisfied.	All quality assurance parameters were met for these analyses.	All quality assurance parameters were met for these analyses.	All quality assurance parameters were met for these analyses.
Reference Sample	All laboratory internal quality control samples were within acceptable ranges.	Note that no record for the low level QC check is submitted, because Iron is not included in the LOQ check. All quality assurance parameters were met for these analyses.	All quality assurance parameters were met for these analyses.	Note that Sample AS23667 was re-analyzed at a secondary dilution to bring all target analyte concentration within the calibration range of the instrument. All quality assurance parameters were met for these analyses.
Data Usability	Data is acceptable.	Data is acceptable.	Data is acceptable.	Data is acceptable.



Attachment C

Figure 1



- LEGEND**
- ◆ Phase II RFI 2011 Monitoring Well Installation
 - ◆ Existing Monitoring Well
 - Injection Point
 - ◆ Quarterly Monitoring Well
- NOTES**
- 1) Base map prepared by CHA
 - 2) Phase II RFI test boring/monitoring well and sampling locations located by Leader based on standard surveying techniques.
 - 3) Drawing considered accurate to the degree implied by the method used.

BIOREMEDIATION PROJECT

IN-SITU INJECTION POINT LOCATIONS FOR AOC 6

Issue Date: 12/9/14 Project No.: 737.003 Scale: NTS

Leader Consulting Services, Inc.
 2813 Wehrle Drive, Suite 1, Williamsville, NY 14221
 Phone: (716) 565-0963 Fax: (716) 565-0964

Designed By:	CHA	Date:	01/12/06
Drawn By:	CHA	Date:	01/10/06
Reviewed By:	The Leader Group	Date:	12/9/12

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS.

**VAILS GATE
 MANUFACTURING FACILITY
 VAILS GATE, NEW YORK**

No.	Submission / Revision	App'd	By	Date
1	Phase II RFI	KK	HK	9/2011
2	Corrective Measures Study	KK	HK	12/2012
3	Remedial Action Work Plan	KK	HK	3/2014
4	Bioremediation Report	KK	HK	12/2014

Figure No. **1**