Confidential Communication Attorney/Client/Privileged Work Product Prepared for Counsel



July 10, 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, <u>NEW YORK, NYSDEC SITE NO. 336065</u>

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 third 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 third 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 third quarterly sampling event of the bioremediation program was conducted on May 11, 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 910 parts per billion ("ppb") to 2,150 ppb. The pH levels within the samples collected from the four (4) wells ranged from 6.43 standard units ("SUs") to 7.01 SUs. Redox values of the samples collected from the four (4) wells ranged from -73 milliVolts ("mVs") to 151 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 3rd Quarter sample from MW-5A/AR at a concentration of 77 ppb, in excess of the NYSDEC Class GA standard of 50 ppb. Chloroethane concentrations decreased from 1010 ppb in February 2015 to a value of 470 ppb in May 2015. 1,1-dichloroethane decreased from 325 ppb in February to 41 ppb in May. 1,1- dichloroethene decreased from 8.62 ppb in February to 1.9 ppb in May, below the Class GA standard of 5 ppb. 1,1,1-trichloroethane concentrations decreased from 200 ppb in February to non-detect in May. Vinyl chloride decreased slightly from 3.59 ppb in February to 2.4 ppb in May. 2-butanone (aka methyl ethyl ketone) concentrations decreased from 82.1 ppb in February to an estimated value of 4.5 ppb in May. 1,2,4 trimethylbenzene was detected for the first time at a concentration of 2.1 ppb, below the Class GA groundwater standard of 5 ppb. Sec-butylbenzene was detected for the first time at a concentration of 1.1 ppb, below the Class GA groundwater standard of 5 ppb.

GWM Well MW-14

Acetone was detected within the 3rd Quarter sample from MW-14, decreasing from 27.3 ppb in February 2015 to 16 ppb in May. Chloroethane concentrations increased from non-detect in February to 2.1 ppb in May, and remained below the Class GA groundwater standard of 5 ppb. The concentration of 1,1- dichloroethane in May remained similar to the February concentration (48 ppb, 43 ppb, respectively), as did the concentration of 1,1- dichloroethene (3.1 ppb,

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3.51ppb). The concentration of vinyl chloride from the sample collected in May remained virtually unchanged from February (2.80 ppb, 2.79 ppb). 2-butanone concentrations increased slightly, from non-detect in February to 2.2 ppb in May, but remained below the Class GA standard of 50 ppb. The remaining VOC analytes were not detected within the May 2015 sample. The analyte concentrations of dichloroethane and vinyl chloride from the May 2015 samples from GWM Well MW-14 were above the NYSDEC Class GA groundwater standards.

GWM Well MW-16

Acetone was detected within the 3rd Quarter sample from MW-16, increasing from non-detect in February 2015 to an estimated value of 4.6 ppb in May, but remained below the Class GA standard of 50 ppb. 1,1- dichloroethane concentrations increased from 7.18 ppb in February to 14 ppb in May. 1,1- dichloroethene concentrations increased from 1.73 ppb in February to 5.6 ppb in May, slightly above the Class GA standard of 5 ppb. Tetrachloroethene concentrations increased slightly, from 1.42 ppb in February to 2.2 ppb in May, and remained below the Class GA standard of 5 ppb. Vinyl Chloride concentrations increased slightly from non-detect in February to 1 ppb in May, and remained below the Class GA standard of 2 ppb. Chloroform concentrations increased slightly from 1.85 ppb in February to 4.9 ppb in May, and remained below the Class GA standard of 7 ppb. The concentrations of 11-dichloroethane and dichloroethene were the only values above the NYSDEC Class GA groundwater standards from the sample collected from GWM Well MW-16 in May 2015.

GWM Well MW-CHA-RFI-7

Acetone was detected in the sample collected from GWM Well MW-CHA-RFI-7 in May, at an estimated concentration of 2.7 ppb. The remaining VOC concentrations from the sample collected from MW-CHA-RFI-7 during the May 2015 sampling event were non-detectable, as they were for the November 2014 and February 2015 sampling events.

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, 1,1 dichloroethane and vinyl chloride remain in exceedance of the Class GA groundwater standards, but have decreased from the previous quarter. The general decrease in VOC concentrations within this John Kolaga, Esq. July 10, 2015 Page 4



well from the previous quarter analysis may be an indication of the beginning of biodegradation of the compounds.

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

The concentration of 1,1-dichoroethene within the sample collected from MW-16 during the May 2015 sample event (5.6 ppb) is only slightly higher than the Class GA groundwater standard of 5 ppb. 1,1 dichloroethane concentrations remain above the standard. The remaining detected analytes are below the Class GA groundwater standards.

There are no detected VOC analytes (with the exception of an estimated, below detection limit value for acetone) within 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.

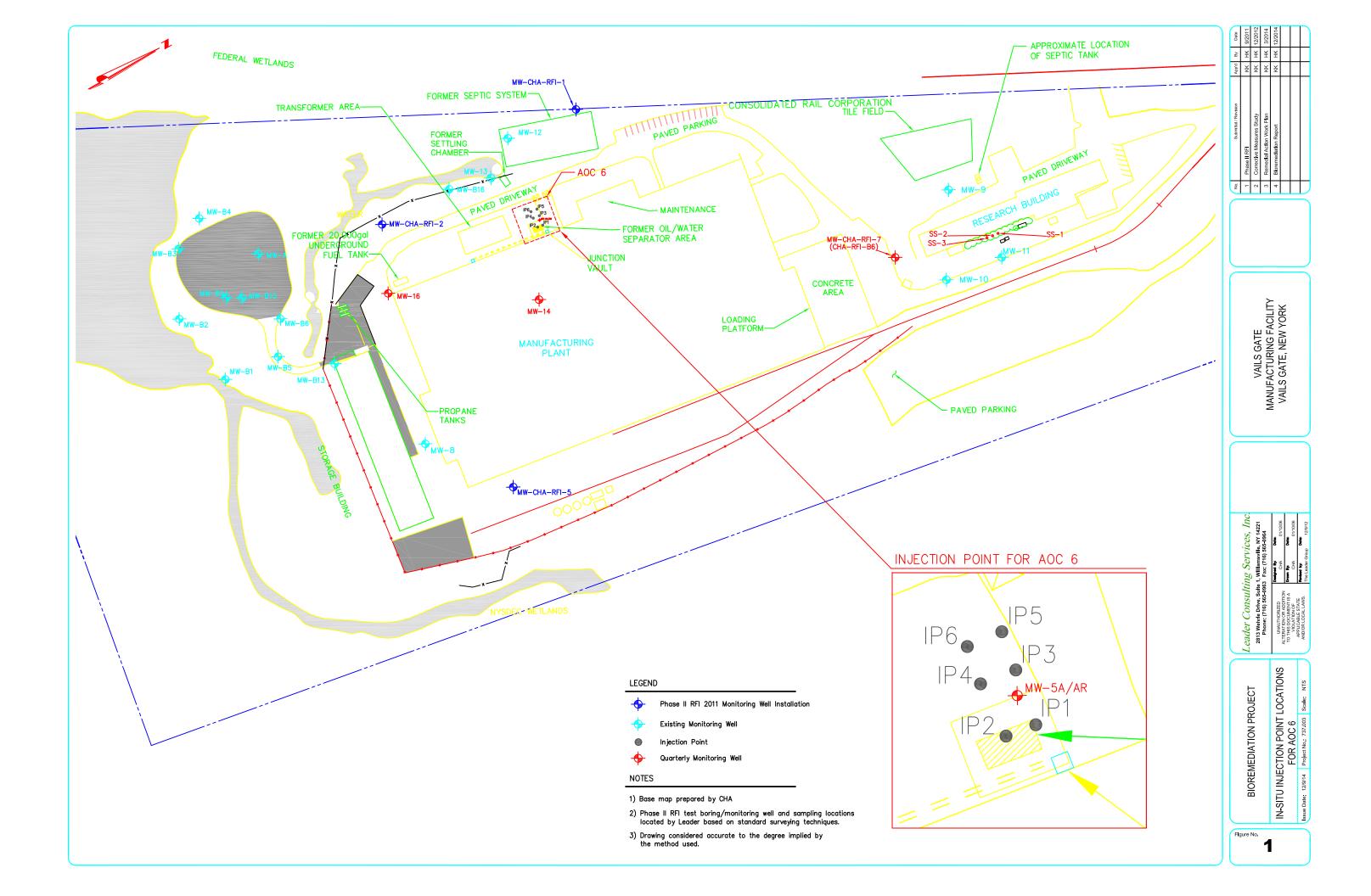
h D. Heller

Keith D. Keller **Project Manager**

h D. Keller ect Manager hey A. Wittlinger

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

Figure 1





Attachment A

Analytical Laboratory Results and Summary Tables

TABLE 1

GROUNDWATER MONITORING WELL SAMPLE LABORATORY ANALYTICAL DATA SUMMARY - DECTECTED PARAMETERS

| | | | P | 1W-5A/AR | | | | | | | I | MW-14 | | | | | | | 1 | MW-16 | | | | | | MM | /-CHA-RFI-7 | | | | Class GA Groundwater Standard (ppb) ⁽³⁾ |
|---------------------------------------|-----------|---------------|-------------------|--------------|----------------------------|------------------------------|---------------|----------|-----------|---------------|-----------|--------------|---------------------|---------------------|---------------|----------|-----------|---------------|-------------|--------------|---------------------------|---------------------------------|---------------|----------|-----------|---------------|-------------|---|---------------|----------|---|
| Analyte (1) | June 2011 | November 2011 | July 2012 | January 2013 | August 2014 ⁽⁶⁾ | November 2014 ⁽⁷⁾ | February 2015 | May 2015 | June 2011 | November 2011 | July 2012 | January 2013 | August 2014 (6 |) November 2014 (7) | February 2015 | May 2015 | June 2011 | November 2011 | L July 2012 | January 2013 | August 2014 ⁽⁶ | 5) November 2014 ⁽⁷⁾ | February 2015 | May 2015 | June 2011 | November 2011 | August 2014 | ⁽⁶⁾ November 2014 ⁽⁷⁾ | February 2015 | May 2015 | |
| Quarterly Sampling Parameters | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volatiles | | | | | | | | | | | | | | | | | | | | | | | | | _ | | | | | | |
| volatiles | ND | ND | ND | ND | ND | 440 ⁽⁹⁾ | 407 | 77(11) | 19 | 45 | 25 | 11 | 10 ⁽⁹⁾ | ND | 27.3 | 16.0 | ND | ND | ND | ND | 2(2)(8) | ND | ND | 4.6 (2) | ND | ND | 1(2)(8) | ND | ND | 2.7 (2) | 50 (4) |
| hlorobenzene | 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 ⁽⁹⁾ | 590(9)(10) | 1010 | 470(11) | ND | ND | ND | ND | 1(2) | ND | ND | 2.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5 |
| L.1-dichloroethane | 650 | 1000 | 830 | 280 | 660 ⁽⁹⁾ | 110 | 325 | 41 | 86 | 79 | 67 | 53 | 47 | 1 (2) | 43 | 48 | 17 | 7.9 | 33 | 14 | 14 | 19 | 7 18 | 14 | ND | ND | ND | ND | ND | ND | 5 |
| 1,1-dichloroethene | ND | 110 (2) | 29 ⁽²⁾ | 11 (2) | 22 | ND | 8.62 | 1.9 | 5.2 | 3.1 (2) | 4.6 (2) | 2.7 (2) | 3 (2) | 2 (2) | 3.51 | 3.1 | 3 (2) | 2.4 (2) | 87 | 5.6 | 7 | g ⁽²⁾ | 1.73 | 5.6 | ND | ND | ND | ND | ND | ND | 5 |
| 1,4-dioxane | ND | ND | ND | ND | ND | ND | 8.02 ND | ND | 420 | 620 | 4.0 | 2.7 | ND | ND | ND | ND | ND | 2.4 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 | 270 | ND | ND | ND | ND | ND | ND | 2 2 (2) | 3.9 (2) | 2 (2) | 2(2)(10) | 1.42 | 2.2 | ND | ND | ND | ND | ND | ND | 5 |
| toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND ND | ND | ND | ND | 1.42 ND | ND | ND | ND | ND | ND | ND | ND | 5 |
| L.1.1-trichloroethane | 890 | 3000 | 440 | 210 | 750 ⁽⁹⁾ | 33 | 200 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 13 | 2 2 (2) | ND | 1 (2) | 2 (2) | ND | ND | ND | ND | ND | ND | ND | ND | 5 |
| /inyl chloride | ND | ND | 15 (2) | ND | 14 | 6 ⁽²⁾⁽¹⁰⁾ | 3.59 | 2.4 | 5.2 | 4.6 (2) | 2.3 (2) | 2.1 (2) | 3 (2) | 2(2)(10) | 2.79 | 2.80 | ND | ND | ND | ND | ND | ND | ND | 1 | ND | ND | ND | ND | ND | ND | 2 |
| 2-butanone (MEK) | ND | ND | ND | ND | ND | 190 ⁽¹⁰⁾ | 82.1 | 4.5 (2) | ND | ND | ND | ND | 2 (2) | 3(2)(10) | ND | 2.2 (2) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 50 ⁽⁴⁾ |
| 4-methyl-2-pentanone | ND | ND | ND | ND | ND | 3 (2) | ND | ND | ND | ND | ND | ND | 1 (2) | 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 | ND | ND | ND | ND | ND | 2 ⁽²⁾⁽⁸⁾ | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 10 ⁽⁴⁾ |
| 1,2,3 trichlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2 ⁽²⁾⁽⁸⁾ | 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 | 4 ⁽²⁾⁽⁸⁾ | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 ⁽⁴⁾ |
| 1,2,4 trichlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1(2)(8) | 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 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5 |
| sec-butylbenzene | ND | ND | ND | ND | ND | ND | ND | 1.1 | 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 (2) | 2 (2) | 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 | 3 (2) | 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 | 1.85 | 4.9 | ND | ND | ND | ND | ND | ND | 7 |
| Wet Chambers and | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wet Chemistry and Dissolved Metals | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| sulfate | NA | NA | NA | NA | 31,500 | <5,000 | <5,000 | 700 (2) | NA | NA | NA | NA | 14,900 | 25,700 | 31,200 | 31,000 | NA | NA | NA | NA | 14,400 | 17,900 | 18,800 | 20,500 | NA | NA | 38,100 | 42,800 | 39,900 | 39,900 | 250,000 |
| total organic carbon (TOC) | NA | NA | NA | NA | 3,410 | 288,000 | 95,400 | 48,900 | NA | NA | NA | NA | 4,150 | 45,900 | 35,800 | 39,800 | NA | NA | NA | NA | 8,650 | 10,800 | 4,220 | 11,700 | NA | NA | 938 | 42,800 | 746 | 1,200 | NS |
| dissolved iron | NA | NA | NA | NA | ND | 50,600 | 42,900 | 5,780 | NA | NA | NA | NA | 6,130 | 16,200 | 8,410 | 9,130 | NA | NA | NA | NA | ND | 231 | 1,470 | 30.9 (2) | NA | NA | ND | 1,450 | 124 | 184 | as low as possible, NTE 500,000 |
| | | | | | | | | | _ | | | | | | | | | | | | | | | | | | | | | | |
| | ∦ | | | | | | | | _ | | | | | | | | | | + + | | | | | | | - | | | | | -1 |
| | | | | | | | | | | | | | - | | | | | | | | | | | | | | | _ | | | 1 |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NOTES:
(1) All analyte values expressed as parts per billion ("ppb").
(2) The analyte values expressed as parts per billion ("ppb").
(2) The analyte values expressed as parts per billion ("ppb").
(2) The analyte values expressed as parts per billion ("ppb").
(2) The analyte values expressed as parts per billion ("ppb").
(3) Standard is identified in 6 NVCRR, Part 703.5, Table 1. NYSDEC TOGS 11.1, Table as unregulated.
(4) Standard is not identified in 6 NVCRR, Part 703.5, Table 1. NYSDEC TOGS 11.1, Table as unregulated.
(5) Analyte Standard does not exist in Part 703.5, Table 1. AnySDEC TOGS 11.1, Table 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 table.
(8) The analyte was "6" flagged, indicating that it was detected in the laboratory method blank, and should be considered estimated.
(9) The analyte was "6" flagged, indicating that it was detected in evaluable in orthe laboratory method blank, and should be considered an estimate.
(10) The analyte was "6" flagged, indicating that it do not meet the variability criteria for the continuous calibration check (CCV) of 20%, and the value should be considered estimated.
(11) The analyte was To flagged, indicating that the concentration was diluted outside the laboratory acceptance criteria.
No --Analyte was To flagged, indicating that the surgate concentration was diluted outside the laboratory acceptance criteria.
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(11) The analyte was To flagged, indicating that the surgate concentration was diluted outside the laboratory acceptance criteria.
No --Analyte was To flagged, indicating that the surgate concentration was diluted outside the laboratory acceptance criteria.
No --Analy

TABLE 2

GROUNDWATER MONITORING WELL SAMPLE FIELD DATA

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

| | M | N-14 | | |
|---------------------------------|----------------------------|------------------------------|---------------|----------|
| Analyte | August 2014 ⁽⁴⁾ | November 2014 ⁽⁵⁾ | February 2015 | May 2015 |
| | | | | |
| dissolved oxygen ⁽¹⁾ | 1,940 | 2,110 | 1,720 | 1,280 |
| рН ⁽²⁾ | 7.19 | 7.41 | 6.98 | 6.58 |
| redox ⁽³⁾ | 7 | -1 | 47 | 0 |
| | | | | |

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

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

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.



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):** May 11, 2015 **Lab Report ID:** 15050173 **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 Smo,

Roy Smith Technical Director



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

> Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308 Phone: 518.346.4592 | internet: www.pacelabs.com

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3

4

5

6

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 – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

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. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

| www.pacelabs.com (518) | 346-4592 | | | | | Г (Г | Page: | 1 | of | 1 |
|--|---|-----------------------------------|--|--|-----------------|----------------|------------------|--------------------|--------------------------|--------------------|
| Section A | Section B Required Project Information: | Section C Invoice Information: | 1505 | 1) | | | | | | |
| Required Client Information: Company: Leader Professional Services | Report To: Keith Keller | Attention: Keit | h Keller | | | ATORY PROGRA | M | | | - |
| Address: 2813 Wehrle Drive, Suite 1 | Сору То: па | Company Name: Lead | der Professional Services | T NPDES GROU | | ORINKING WATER | | | | |
| Williamsville, NY 14221 | | Address: | | E UST E RCRA | ro آ | THER | | | | |
| | Purchase | Pace Quote Reference: 1 | #00012704 | SITE | | New Y | ork State | | | |
| Email To: | Order No.: Vaile Gate Manufact | u Pace Project Manager: | | LOCATION | | | | | | |
| Phone: 716-565-0963 Fax: na | Project Name: Vails Gate Manufact | | | | Filtered (Y/N) | | *Specify Iron | Metals/Ir | norganic | :S: |
| Requested Due Date/TAT: Standard 2-Week | Project Number: | Pace Profile #: | | | UESTED ANALYSES | | | | | |
| | | | | | | | | | | |
| Section D Required Client Information SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE | CODE BUDGE B | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS Hor Containers Hor So, Hor NaoH Na25,0, NaOH Na25,0, Na Strong Na Strong N | Other Dissolved Fe Sulfate Total Organic Carbon R 8260 Full List Field-DO, Conductivity | | | _ | ce Labor | | D |
| Field Duplicate-01 | WT G Shills | 1215 | 7 × × | x x x x x | | | | | | |
| MW-5A/AR | WT G SINIS | 1215 | 7 X X | x x x x x | | | | 9971 | | |
| 2 | WT G 3/11/15 | 1145 | 7 X X | x x x x x | | | | 5977 | | |
| 3 | WT G SINIS | 1130 | 7 x X | x x x x x | | <u></u> | | 8978 | { | |
| 4 MW-CHA-RFI-7 | WT G 5/11/15 | 1330 | 7 X X | x x x x x | | | ASOS | 1979 | | |
| 5 MW-CHA-RFI-7_MS | WT G SIIIIS | 1330 | 7 × X | x x x x x | | | | | | |
| 6 | WT G SINIS | | 7 x x | x x x x x | | | <u> </u> | | | |
| 7 MW-CHA-RFI-7_MSD | | | ZX | x | | | ASO | 8950 |) | |
| 8 Trip Blank-01 | WT G SINIIS | | | | | | | | | |
| 9 | WT G | | | | | | | | | |
| 10 | WT G | | | | | | | | | |
| 11 | WT G | | | | | | | | | |
| 12 | WT G | | | BY / AFFILIATION | DATE | TIME | SA | MPLE CON | DITIONS | ; |
| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFIL | | | | | 630 | 4.6 | B | Ģ | (3) |
| NYSDEC DER-10 EQUIS EDD LAB FILTER METALS | MALO PACE | 5/1/15 | 1630 CD | la pen | SIULIS 1 | 630 | UR) | N N N | Y'N | N. |
| LAB FILTER METALS | | | | | | | | X N | λ.N | NX |
| | | | | · · · · · · · · · · · · · · · · · · · | | | | N N | × N X | |
| | | | | | | | | | | |
| | PRIM | | Matt Broker (PACE) | DATE Signed | | | Temp in °C | Received on Ice | Custody Sealed Cooler | Samples Intact Y/N |
| | SIG | NATURE of SAMPLER: | INNE (T | DATE Signed (MM / DD / YY): | shills | | | L | <u> </u> | |

OR.U.

0, 2015 Revision 1

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| Pace Analy | dica | , " | San | | ndizish l | Upon | Recei | pt | | | |
|--|--------------|--------------|-----------------|-------------|-------------------|----------|----------|-----------|-------------------|---------------------|----------|
| - Tace Analy | uca | , | | 150501732 | | | T NAME: | | ader Prof Gale | Essonal Manufaci | Services |
| COURIER: FedEx UPS Clier | nt 🗆 | Pace 😴 | Other 🗆 | | | | | | | | 0 |
| TRACKING # | | | DY SEAL PRESE | | No 🖆 | - | INTACT: | | No 🗆 | | A T |
| • | Bubble Bag | | None 🗆 | Other 🗆 | | | ED: Wet | | Blue | Non | |
| THERMOMETER USED: #164 	 IR Gun | | #122087 | | | COOLER T | | - | | | |) |
| BIOLOGICAL TISSUE IS FROZEN: Yes 🗆 | No 🗆 | N/A 🗹 | | | | • | should b | e above | freezing to | o 6°C | |
| | | | | - | COMMEN | ITS: | | | | | |
| Chain of Custody Present: | Xyes | No | · · · | 1. | | | | | | | |
| Chain of Custody Filled Out: | Yes | □No | | 2. | | | | | | | |
| Chain of Custody Relinquished: | Yes | □ No | | 3. | | | | | | | |
| Sampler Name / Signature on COC: | XYes | □No | | 4. | | | | | | | |
| Samples Arrived within Hold Time: | È≱es | □No | | 5. | | | | | | | |
| Short Hold Time Analysis (<72hr): | □Yes | XK No | | 6. | | | | | | | |
| Rush Turn Around Time Requested: | □Yes | Mo | | 7. | | | | | | | |
| Sufficient Volume: | ≥ ∕es | ΠNο | | 8. | | | | | | | |
| Correct Containers Used: | X Yes | □ No | | 9. | | | | | | | |
| - Pace Containers Used: | XYes | □No | | | | | | | | | |
| Containers Intact: | X Yes | □ No | | 10. | | | | | | | |
| Filtered volume received for Dissolved tests: | □Yes | No | XXI/A | 11. | | | | | | | |
| Sample Labels match COC: | X Yes | | | 12. | | | | | | | |
| - Includes date/time/ID/Analysis | | | | | | | | | | | |
| All containers needing preservation have been checked: | □Yes | □No | XN/A | 13. | | | | | | | |
| All containers needing preservation are in compliance with EPA recommendation: | □Yes | □No | | Initial whe | | 35 | Ĺ | ot # of a | dded pres | ervative: | |
| - Exceptions that are not checked: VOA | | | | completed | d: <u>esp</u> siv | | | æ | Jesilis N | <u>~</u> | |
| leadspace in VOA Vials (>6mm): | □Yes | | | 14. | | | | | | | |
| Trip Blank Present: | □Yes | □ No | K N/A | 15. | | | | | | | |
| Frip Blank Custody Seals Present: Pace Trip Blank Lot #:の合 | □Yes | ΠNο | BIN/A | | | | | | | | |
| Sample Receipt form filled in: <u>くりや</u> らり | Inlis | | t (Includes Cop | , | • | | | | • • | CSP | Shills |
| | | | ncludes notify | - | | | | | | 070 | Shuhr |
| | | Labeling | (Includes Sca | nning Bottl | es and enter | ring LAB | IDs into | pH logb | ook): | CJP | shult |

LOGIN_SCUR_FORM_052914_Rev01_01 Pace Analytical Services, Inc.

| 1 | | Signature | 4-5 8-530-9279 | <u> </u> | We Solar City | |
|----------------|---|-------------------|-------------------------------------|----------------------|-----------------------------|----------------------------|
| Aatt Broker | Matt B | oampier. | arge | nd 3 slow recharge | Vell between piller 2 and 3 | ions: |
| γv-Total Depth | G.W.Elevation =Top of Case Elev-Total Depth | G.W.Elevati | grey | | cioudy | Weather: |
| N/A feet | vation= | G.W. Elevation= | 1.28 | | | Dissolved Oxygen |
| N/A feet | Elevation(Top of Casing) | Elevation(Tr | | | | Turbidity |
| | | | | | 1705 | Specific Cond. |
| | column height | 1st water colum | 6.58 SU | | 6.92 | рH |
| % | 2nd water column height | 2nd water | 22.6 C | | 21.3 | Temperature |
| | | | 0:00 mV | | -21 | Ŧ |
| 10.44 feet | Water | Recharge Depth to | 11:45 | | 10:57 | Time |
| 4.2 feet | Initial Depth to Water | Initial Dep | 5/11/15 | | 5/11/15 | |
| | rge: | % Recharge: | Final Sampling | Final Samp | Initial Evacuation | 15050) |
| ı Tect | AIN | | | | | . <u>73</u> E |
| 1 | | | Denth of Silt (calculated | Π | | <u>23></u> ↓ |
| - feet | N/A | iown) | Installed Well Depth (if known) | u. | SILT | - - - - - |
| _ gallons | Dry @ 2.0 | | Actual Volume Evacuated | | | |
| - gallons | 4.23 | lated | Total Volume to be Evacuated | | | < |
| 1 | з | lcuated | No. of Volumes to be Evacuated | | | |
| _ gallons | 1.41 | | Well Volume (calculated) | | | 0 |
| | 0.16 | | Conversion Factor | | WATER | ∞ |
| - feet | 8.80 | (calculated) | Length of Water Column (calculated) | ņ | | ↓ |
| - feet | 4.20 | | Depth to Water | ņ | | |
| - feet | 13.00 | | Well Depth Measured | ß | | o |
| - inches | 2.00 | | Diameter of Well | À | ТОР | |
| | | | | | ⊢ A → | • |
| | | | | Bailer | npling: | Method of Sampling: |
| | Flush | <u></u> | Lock ID: | Bailer | icuation: | Method of Evacuation: |
| | Yes | ğ | Locked: | Good | /ell: | Condition of Well: |
| | | | | MW-14 | | Well ID.: |
| | | PACEID | | s Gate Manufacturing | Vails Gat | Project: |
| | | | Ground water Field Log | į. | Analyucal Services, Inc. | Client: |
| | | | ! | | | |

| Weather: Observations: sample clear | Appearance clear | | | Temperature 17.9 | 44 | 1 ime 12:25 | Date 5/11/15 | Measurements Evacuation | 1734 • | SILT | ₩ | | | . U — | | • | | o— | | Method of Sampling: | Method of Evacuation: | Condition of Well: | Well ID.: MW | |
|--|--|------------------------------|-------------------------|-------------------------|--------------|-------------------------------|--------------------------|-------------------------|------------------------------|------------------------------------|-------------------------|------------------------------|--------------------------------|--------------------------|-------------------|--|-------------------|------------------------|---------------------|---------------------|---------------------------|--------------------|---------------------|-------------------|
| 28C sunny | r 1.66 clear | 4.54 NTU | 7.01 | 18 | <u>35</u> mV | | | Final Sampling | F. Depth of Silt (calculated | E. Installed Well Depth (if known) | Actual Volume Evacuated | Total Volume to be Evacuated | No. of Volumes to be Evacuated | Well Volume (calculated) | Conversion Factor | D. Length of Water Column (calculated) | C. Depth to Water | B. Well Depth Measured | A. Diameter of Well | Peristaltic Pump | Peristaltic Pump Lock ID: | Good | MW-CHA-RFI-7 MS/MSD | Leader Consulting |
| Sampler: Matt Broker Signature: | G.W. Elevation= N/A fe G.W.Elevation = Top of Case Elev-Total Depth | Elevation(Top of Casing) N/A | 1st water column height | 2nd water column height | 1 | Recharge Depth to Water 14.97 | Initial Depth to Water 0 | % Recharge: | N/A feet | nown) <u>N/A</u> feet | d <u>15.00</u> gallons | uated <u>20.01</u> gallons | acuated <u>3</u> |) <u>6.67</u> gallons | 0.16 | (calculated) 41.67 feet | 0.00 feet | 41.67 feet | 2.00 inches | | | ed: Yes | PACE ID | |

| ACE Analytical Services, Inc. Ground water Field Log Nue Field Log an: Lader Consulting Nue Field an: Lader Consulting Nue Field Condition of Weil Cood Yes Method of Sampling Peristaits Pump Locket Yes Method of Sampling Peristaits Pump Lock ID: Filish Method of Sampling Peristaits Pump Lock ID: Filish Method of Sampling Peristaits Pump Lock ID: Filish Method of Sampling Null Depth Measured 2.00 Inches B Weil Depth Measured 13.83 feel C Depth Is Water Column (calculated) 9.67 feel D Length of Vulere Column (calculated) 9.67 feel Sull T E Installed Weil Depth (I known) NIA feel Summents Frazuation Sampling NIA feel Summents Easurements Sampling NIA feel Summents Sampling NIA feel NIA feel Sectiong 2.00 NIA |
|--|
| er Field Log PACE PACE PACE PACE PACE PACE PACE PACE |
| E ID Yes Flush Flush Signature: Flush Signature: Perecharge Substitution Flush Flush Signature: Perecharge Substitution Substitu |
| |

| Well ID.: | Vails Gate Manufacturing MW-5A/AR Field Dupe 1 | | PACEID | |
|--|---|---|---|-------------|
| Condition of Well: | Good | Locked: | id: Yes | |
| Method of Evacuation: | tion: Peristaltic Pump | Sump Lock ID: | | |
| Method of Sampling: | ng: Peristaltic Pump | oump | | |
| → → → | A →A. | . Diameter of Well | 2.00 | inches |
|) | B. | . Well Depth Measured | 6.50 | feet |
| C | C. | 2. Depth to Water | 0.80 | feet |
| | D. |). Length of Water Column (calculated) | n (calculated) <u>5.70</u> | feet |
| | WATER | Conversion Factor | 0.16 | |
|) (T | | Well Volume (calculated) | i) <u>0.91</u> | gallons |
| C | | No. of Volumes to be Evacuated | racuated 3 | |
| | | Total Volume to be Evacuated | cuated2.73 | gallons |
| | | Actual Volume Evacuated | ed 4.00 | gallons |
| - TI - | SILT | E. Installed Well Depth (if known) | (nown) N/A | feet |
| < | | F. Depth of Silt (calculated | N/A | feet |
| Field Measurements | Initial Evacuation | Final Sampling | % Recharge: | |
| Date - | 5/11/15 | 5/11/15 | Initial Depth to Water Recharge Depth to Water | r 0.8 feet |
| ШТ Т | -42 | -73 mV | | |
| Temperature | 18.4 | | 2nd water column | height % |
| Specific Cond. | 0.53 1170 | 1093 uS | ist water column | neight |
| Turbidity | > 1000 | | J Elevation(Top of Casing) | N/A feet |
| Dissolved Oxygen | 1.45 | 0.91 | G.W. Elevation= | N/A feet |
| i Abbeciciense | | vioudy | | |
| Weather: Observations: <u>Silty</u> | bottom thick | 26C sunny grey while purging then cleared up | Sampler: | Matt Broker |
| | | | Signature: | |
| | | | | |
| <15050173P6> | | | | |

| NOTES: | | | | | | Cone | | | | A | | | | | INST | TEC | DATE: |
|--------|----------|------|------|-----------|--|--------------|-------|------|------|---------------------|----------------|---------------------------|---------------------------|---------------------------|-------------|-------------|--------------------------|
| ES: | | | | Turbidity | | Conductivity | | | 뫄 | ANALYTE | | | | | INSTRUMENT: | TECHNICIAN: | ü |
| | 750 | 100 | 15 | <0.10 | | 1413 | 10.00 | 7.00 | 4.00 | ANALYTE | TURBIDITY | | CONDUCTIVITY | РН | | Matt Broker | 5/11/15 |
| | 741 | 97 | 15.3 | 0.12 | | 1421 | 10.02 | 7.20 | 3.87 | INTIAL READING | | URE | VITY | | | ï | |
| | 750 | 100 | 15 | <0.10 | | 1413 | 10.00 | 7.00 | 4.00 | ADJUSTED READING | Hanna HI 98703 | Myron Ultrameter II 6PFCe | Myron Ultrameter II 6PFCe | Myron Ultrameter II 6PFCe | | | |
| | 1058 | 1057 | 1056 | 1055 | | 1055 | 1054 | 1050 | 1052 | TIME | 03 | Neter II 6PFCe | ieter II 6PFCe | ieter II 6PFCe | | THER: | SITE: |
| | | | | | | | | | | NOTES | | | | | | 24C sunny | Vails Gate Manufacturing |
| | | | | | | | | | | | | | | | | | |

<15050113P1>

150501737

1

FIELD CALIBRATION SHEET PACE ANALYICAL INC.

SAMPLE RECEIPT



SAMPLE RECEIPT REPORT 15050173

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: 15050173 **REPORT: DATA PACKAGE** EDD: YES LRF TAT: 2 WEEK

RECEIVED DATE: 05/11/2015 16:30 SHIPPING ID: NUMBER OF COOLERS: 1 CUSTODY SEAL INTACT: NA COOLER STATUS: CHILLED TEMPERATURE(S): ⁵4.6 (IR) °C

SAMPLE SEALS INTACT: NA SHIPPED VIA: PICK UP ^{1,}SAMPLES PRESERVED PER METHOD GUIDANCE: YES ³ 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 REQUES |
|------------------------------|---------------------------|----------------------|--------|---------------------|--------------------------------------|--------------|
| FIELD DUPLICATE-01 (AS08975) | 2 WEEK 05-27-15 | 05/11/2015 12:15 | Water | | Sulfate - Sub | |
| | 2 WEEK 05-27-15 | 05/11/2015 12:15 | Water | 200.7 | Dissolved Metals 200.7 - Sub - NY-LI | |
| | 2 WEEK 05-27-15 | 05/11/2015 12:15 | Water | E8260C | EPA Method 8260C | |
| | 2 WEEK 05-27-15 | 05/11/2015 12:15 | Water | SM 5310B-00,-11 | Total Organic Carbon | |
| MW-5A/AR (AS08976) | 2 WEEK 05-27-15 | 05/11/2015 12:15 | Water | | Sulfate - Sub | |
| | 2 WEEK 05-27-15 | 05/11/2015 12:15 | Water | 200.7 | Dissolved Metals 200.7 - Sub - NY-LI | |
| | 2 WEEK 05-27-15 | 05/11/2015 12:15 | Water | E8260C | EPA Method 8260C | |
| | 2 WEEK 05-27-15 | 05/11/2015 12:15 | Water | Misc Field Analysis | Misc Field Analysis | |
| | 2 WEEK 05-27-15 | 05/11/2015 12:15 | Water | SM 5310B-00,-11 | Total Organic Carbon | |
| MW-14 (AS08977) | 2 WEEK 05-27-15 | 05/11/2015 11:45 | Water | | Sulfate - Sub | |
| | 2 WEEK 05-27-15 | 05/11/2015 11:45 | Water | 200.7 | Dissolved Metals 200.7 - Sub - NY-LI | |
| | 2 WEEK 05-27-15 | 05/11/2015 11:45 | Water | E8260C | EPA Method 8260C | |
| | 2 WEEK 05-27-15 | 05/11/2015 11:45 | Water | Misc Field Analysis | Misc Field Analysis | |
| | 2 WEEK 05-27-15 | 05/11/2015 11:45 | Water | SM 5310B-00,-11 | Total Organic Carbon | |
| MW-16 (AS08978) | 2 WEEK 05-27-15 | 05/11/2015 11:30 | Water | | Sulfate - Sub | |
| | 2 WEEK 05-27-15 | 05/11/2015 11:30 | Water | 200.7 | Dissolved Metals 200.7 - Sub - NY-LI | |
| | 2 WEEK 05-27-15 | 05/11/2015 11:30 | Water | E8260C | EPA Method 8260C | |
| | 2 WEEK 05-27-15 | 05/11/2015 11:30 | Water | Misc Field Analysis | Misc Field Analysis | |
| | 2 WEEK 05-27-15 | 05/11/2015 11:30 | Water | SM 5310B-00,-11 | Total Organic Carbon | |
| MW-CHA-RFI-7 (AS08979) | 2 WEEK 05-27-15 | 05/11/2015 13:30 | Water | | Sulfate - Sub | MS, MSD |
| . , | 2 WEEK 05-27-15 | 05/11/2015 13:30 | Water | 200.7 | Dissolved Metals 200.7 - Sub - NY-LI | MS, MSD |
| | 2 WEEK 05-27-15 | 05/11/2015 13:30 | Water | E8260C | EPA Method 8260C | MS, MSD |
| | 2 WEEK 05-27-15 | 05/11/2015 13:30 | Water | Misc Field Analysis | Misc Field Analysis | |
| | 2 WEEK 05-27-15 | 05/11/2015 13:30 | Water | SM 5310B-00,-11 | Total Organic Carbon | MS, MSD |
| TRIP BLANK-01 (AS08980) | 2 WEEK 05-27-15 | 05/11/2015 | Water | E8260C | EPA Method 8260C | |

The 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

4 is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

Samples 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 pН 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

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Page 1 of 1

2190 Technology Drive Schenectady, NY 12308 Phone 518.346.4592 Fax 518.381.6055

June 10, 2015 Revision 1

Wet Chemistry - TOC/DTOC



| Client: Leader Consul | ting Services, Inc. | | Collecti | on Date: 05/11/2 | 2015 12:15 | |
|-----------------------|---------------------|------------------|----------|----------------------|------------|---------|
| Project: VAILS GATH | E MANUFACTURING | | Sample | Matrix: WATE | R | |
| Client Sample ID: FIE | ELD DUPLICATE-01 | | Receive | d Date: 05/11/20 | 015 16:30 | |
| Lab Sample ID: 150 | 050173-01 (AS08975) | | Percent | Solid: N/A | | |
| | | | | | | |
| Batch ID | Method | Date | Analyst | Init Wt./Vol. | Final Vol. | Column |
| Analysis 1: 786 | SM 5310B | 05/20/2015 09:56 | JLM | NA | NA | NA |
| Analyte | CAS No. | Result (mg/L) | PQL | Dilution Fact | or Flags | File ID |
| Total Organic Carbon | | | | 1.00 | | 786 |

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

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



| Client: Leader Consulti Project: VAILS GATE Client Sample ID: MW Lab Sample ID: 1505 | MANUFACTURING -5A/AR | | Collection Date: 05/11/2015 12:15 Sample Matrix: WATER Received Date: 05/11/2015 16:30 Percent Solid: N/A | | | | | | |
|---|-------------------------|--------------------------|--|----------------------|------------|-----------------------|--|--|--|
| Batch ID Analysis 1: 786 | Method SM 5310B | Date 05/20/2015 10:11 | Analyst JLM | Init Wt./Vol. | Final Vol. | Column | | | |
| Analyte Total Organic Carbon | CAS No. 0C002 | Result (mg/L) 48.9 | PQL 0.500 | Dilution Fact | | File ID 786 | | | |

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

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



| Client: Leader Consulting Project: VAILS GATE M Client Sample ID: MW-1 Lab Sample ID: 15050 | ANUFACTURING 4 | | Collection Date: 05/11/2015 11:45 Sample Matrix: WATER Received Date: 05/11/2015 16:30 Percent Solid: N/A | | | | | |
|--|--------------------|--------------------------|--|----------------------|------------------|---------|--|--|
| Batch ID Analysis 1: 786 | Method SM 5310B | Date 05/20/2015 10:28 | Analyst JLM | Init Wt./Vol. NA | Final Vol. NA | Column | | |
| Analyte Total Organic Carbon | CAS No. OC002 | Result (mg/L) 39.8 | PQL 0.500 | Dilution Fact | or Flags | File ID | | |

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: 15050173

| Client: Leader Consult Project: VAILS GATE Client Sample ID: MW Lab Sample ID: 1503 | MANUFACTURING -16 | | Collection Date: 05/11/2015 11:30 Sample Matrix: WATER Received Date: 05/11/2015 16:30 Percent Solid: N/A | | | | | | |
|--|----------------------|------------------|--|----------------------|------------|---------|--|--|--|
| Batch ID | Method | Date | Analyst | Init Wt./Vol. | Final Vol. | Column | | | |
| Analysis 1: 786 | SM 5310B | 05/20/2015 10:41 | JLM | NA | NA | NA | | | |
| Analyte | CAS No. | Result (mg/L) | PQL | Dilution Fact | or Flags | File ID | | | |
| Total Organic Carbon | OC002 | 11.7 | 0.500 | 1.00 | | 786 | | | |

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

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



| Client: Lead | der Consulti | ng Services, Inc. | | Collecti | on Date: 05/11/2 | 2015 13:30 | |
|---------------|--|-------------------|------------------|----------|----------------------|------------|---------|
| Project: VA | Project: VAILS GATE MANUFACTURING Sample Matrix: WATER | | | | | | |
| Client Samp | ple ID: MW- | CHA-RFI-7 | | Receive | d Date: 05/11/2 | 015 16:30 | |
| Lab Sample | e ID: 1505 | 0173-05 (AS08979) | | Percent | Solid: N/A | | |
| | | | | | | | |
| | Batch ID | Method | Date | Analyst | Init Wt./Vol. | Final Vol. | Column |
| Analysis 1: | 786 | SM 5310B | 05/20/2015 10:57 | JLM | NA | NA | NA |
| Analyte | | CAS No. | Result (mg/L) | PQL | Dilution Fact | or Flags | File ID |
| Total Organic | Carbon | OC002 | 1.20 | 0.500 | 1.00 | | 786 |

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



Client: Leader Consulting Services, Inc. Project: VAILS GATE MANUFACTURING Client Sample ID: MW-5A/AR Lab Sample ID: 15050173-02 (AS08976) Collection Date: 05/11/2015 12:15 Sample Matrix: WATER Received Date: 05/11/2015 16:30 Percent Solid: N/A

| | atch ID | Method Field Analysis | Date | Analyst 5 MEB | Init Wt./Vol. | Final Vol. | Column | _ |
|-------------------|----------|--------------------------|----------------|------------------|----------------|------------|------------|---|
| Analyte | lu i est | CAS No. | Result | PQL | Dilution Facto | | File ID | |
| Dissolved Oxyger | 1 | 7782-44-7 | 0.910 (mg/L) | 0.00 | 1.00 | | Field Test | |
| рН | | NA | 6.43 (pH) | 0.00 | 1.00 | | Field Test | |
| Reduction Potenti | al | NA | -73.0 (mV) | 0.00 | 1.00 | | Field Test | |
| Specific Conducta | ance | NA | 1090 (umhos/cm | 0.00 | 1.00 | | Field Test | |
| Static Water Leve | 1 | NA | 0.800 (ft) | 0.00 | 1.00 | | Field Test | |
| Temperature | | NA | 17.8 (°C) | 0.00 | 1.00 | | Field Test | |
| Turbidity | | NA | 71.8 (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. NYS-DOH ELAP/NELAC laboratory certification is not available for these field parameters.



Client: Leader Consulting Services, Inc. Project: VAILS GATE MANUFACTURING Client Sample ID: MW-14 Lab Sample ID: 15050173-03 (AS08977)

Collection Date: 05/11/2015 11:45 Sample Matrix: WATER Received Date: 05/11/2015 16:30 Percent Solid: N/A

| Batch ID Analysis 1: Field Test | Method Field Analysis | Date | Analyst MEB | Init Wt./Vol. F | inal Vol. | Column |
|------------------------------------|--------------------------|----------------|----------------|-----------------|-----------|------------|
| Analyte | CAS No. | Result | PQL | Dilution Factor | | File ID |
| Dissolved Oxygen | 7782-44-7 | 1.28 (mg/L) | 0.00 | 1.00 | | Field Test |
| рН | NA | 6.58 (pH) | 0.00 | 1.00 | | Field Test |
| Reduction Potential | NA | 0.00 (mV) | 0.00 | 1.00 | | Field Test |
| Specific Conductance | NA | 1450 (umhos/cm | 0.00 | 1.00 | | Field Test |
| Static Water Level | NA | 4.20 (ft) | 0.00 | 1.00 | | Field Test |
| Temperature | NA | 22.6 (°C) | 0.00 | 1.00 | | Field Test |
| Turbidity | NA | >1000 (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. NYS-DOH ELAP/NELAC laboratory certification is not available for these field parameters.



Client: Leader Consulting Services, Inc. Project: VAILS GATE MANUFACTURING Client Sample ID: MW-16 Lab Sample ID: 15050173-04 (AS08978)

Collection Date: 05/11/2015 11:30 Sample Matrix: WATER Received Date: 05/11/2015 16:30 Percent Solid: N/A

| Batch ID Analysis 1: Field Test | Method Field Analysis | Date 05/11/2015 11:30 | Analyst MEB | Init Wt./Vol. Fi | nal Vol. | Column |
|------------------------------------|--------------------------|--------------------------|----------------|------------------------|----------|------------|
| Analyte | CAS No. | Result | PQL | Dilution Factor | Flags | File ID |
| Dissolved Oxygen | 7782-44-7 | 2.15 (mg/L) | 0.00 | 1.00 | | Field Test |
| pH | NA | 6.66 (pH) | 0.00 | 1.00 | | Field Test |
| Reduction Potential | NA | 151 (mV) | 0.00 | 1.00 | | Field Test |
| Specific Conductance | NA | 1180 (umhos/cm | 0.00 | 1.00 | | Field Test |
| Static Water Level | NA | 3.96 (ft) | 0.00 | 1.00 | | Field Test |
| Temperature | NA | 17.6 (°C) | 0.00 | 1.00 | | Field Test |
| Turbidity | NA | 287 (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. NYS-DOH ELAP/NELAC laboratory certification is not available for these field parameters.



Client: Leader Consulting Services, Inc. Project: VAILS GATE MANUFACTURING Client Sample ID: MW-CHA-RFI-7 Lab Sample ID: 15050173-05 (AS08979) Collection Date: 05/11/2015 13:30 Sample Matrix: WATER Received Date: 05/11/2015 16:30 Percent Solid: N/A

| Batch ID Analysis 1: Field Test | Method Field Analysis | Date 05/11/2015 13:30 | Analyst MEB | Init Wt./Vol. F | inal Vol. | Column |
|------------------------------------|--------------------------|--------------------------|----------------|-----------------|-----------|------------|
| Analyte | CAS No. | Result | PQL | Dilution Factor | · Flags | File ID |
| Dissolved Oxygen | 7782-44-7 | 1.66 (mg/L) | 0.00 | 1.00 | | Field Test |
| рН | NA | 7.01 (pH) | 0.00 | 1.00 | | Field Test |
| Reduction Potential | NA | 35.0 (mV) | 0.00 | 1.00 | | Field Test |
| Specific Conductance | NA | 1470 (umhos/cm | 0.00 | 1.00 | | Field Test |
| Static Water Level | NA | 0.00 (ft) | 0.00 | 1.00 | | Field Test |
| Temperature | NA | 18.0 (°C) | 0.00 | 1.00 | | Field Test |
| Turbidity | NA | 4.54 (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. NYS-DOH ELAP/NELAC laboratory certification is not available for these field parameters.

Quality Control Samples (Field)



Quality Control Results Matrix Spike Sample (MS) Job Number: 15050173

| Client: Leader Consult Project: VAILS GATE Client Sample ID: MW Lab Sample ID: 1505 | MANUFACTURING -CHA-RFI-7 MS | | | Sa Re | Collection Date: N/A Sample Matrix: WATER Received Date: N/A Percent Solid: N/A | | | | | |
|--|--------------------------------|------------------|----------------------|--------------|--|------------------|---------------|---------------|--------------|--|
| Batch ID Analysis 1: 786 | Method SM 5310B | | Date 05/20/2015 1 | | | t Wt./Vo NA | | al Vol. NA | Column NA | |
| Analyte | CAS No. | R | esult (mg/L) | PQ | QL Dil | lution F | actor | Flags | File ID | |
| Total Organic Carbon | OC002 | | 10.7 | 0.5 | 00 | 1.00 | | | 786 | |
| Analyte Spiked | CAS No. | Sample (mg/L) | e Added (mg/L) | MS (mg/L) | MS % Rec. | \mathbf{Q}^{1} | Limits (%) | | | |
| Total Organic Carbon | OC002 | 1.20 | 10.1 | 10.7 | 93.7 | | 80.0-120 |) | | |

Qualifier 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.

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Quality Control Results Matrix Spike Duplicate (MSD) Job Number: 15050173

Client: Leader Consulting Services, Inc. Project: VAILS GATE MANUFACTURING Client Sample ID: MW-CHA-RFI-7 MSD Lab Sample ID: 15050173-05K (AS08979K) Collection Date: N/A Sample Matrix: WATER Received Date: N/A Percent Solid: N/A

| | Batch ID | Method | | Dat | - | nalyst | Init Wt./ | Vol. Fin | al Vol. | | Colum | 1 |
|------------------------|----------|---------------------|------------------|---------------------------|---------------|------------|----------------|---------------|--------------|--------------------|------------------|---------------|
| Analysis 1: Analyte | 786 | SM 5310B CAS No. | R | 05/20/2015 esult (mg/L | | LM QL | NA Dilution | Factor | NA Flags | File | NA ID | |
| Total Organic | c Carbon | OC002 | | 9.12 | 0. | 500 | 1.00 | | | 786 Prec | ision | |
| Analyte Spi | ked | CAS No. | Sample (mg/L) | Added (mg/L) | MSD (mg/L) | MSI % R | 1 | Limits (%) | MS % Rec. | RPD | \mathbf{Q}^{1} | Limits (%) |
| Total Organic (| Carbon | OC002 | 1.20 | 10.1 | 9.12 | 78.4 | 4 * | 80.0-120 | 93.7 | 17.8 | | 20 |

Qualifier 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 Samples (Lab)



Quality Control Results Method Blank Job Number: 15050173

| Client: Leader Consulting Services, Inc. Project: VAILS GATE MANUFACTURING Client Sample ID: Method Blank (AS08705B) 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 | | | Column | | |
| Analysis 1: | 786 | SM 5310B | 05/20/2015 09:08 | JLM | NA | NA | NA | | |
| Analyte | | CAS No. | Result (mg/L) | PQL | Dilution Fact | tor Flags | File ID | | |
| Total Organi | c Carbon | OC002 | ND | 0.500 | 1.00 | U | 786 | | |

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

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

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Quality Control Results Lab Control Sample (LCS) Job Number: 15050173

| Client: Leader Consulting Services, Inc. Project: VAILS GATE MANUFACTURING Client Sample ID: Lab Control Sample (AS08705L) Lab Sample ID: LCS-01 | Collection Date: N/A Sample Matrix: WATER Received Date: N/A Percent Solid: N/A |
|---|--|
| Batch IDMethodAnalysis 1:786SM 5310B | DateAnalystInit Wt./Vol.Final Vol.Column05/20/2015 09:22JLMNANANA |
| Analyte Spiked CAS No. | AddedLCSLCSLimits(mg/L)(mg/L)% Rec.Q1(%) |
| Total Organic Carbon OC002 | 10.0 9.17 91.7 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.

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Subcontract Analysis



575 Broad Hollow Road , Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

 Attn To:
 William A. Kotas

 Collected
 : 5/11/2015 12:15:00 PM

 Received
 : 5/11/2015 9:15:00 PM

Collected By : CLIENT

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.

Lab No. : 1505771-001 Client Sample ID: FIELD DUPLICATE-01

Sample Information:

Type: Aqueous

Origin:

| Analytical Method: SW8260C : | | Prep N | <u>/lethod:</u> 503 | 30C | | <u>Analyst:</u> KG |
|---|----------------|------------------|---------------------|--------------|--------------------|--------------------|
| Parameter(s) | <u>Results</u> | <u>Qualifier</u> | <u>D.F.</u> | <u>Units</u> | Analyzed: | Container: |
| 1,1,1,2-Tetrachloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,1,1-Trichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,1,2,2-Tetrachloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,1,2-Trichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,1-Dichloroethane | 42 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,1-Dichloroethene | 1.9 🛸 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,1-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,2,3-Trichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,2,3-Trichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,2,4-Trichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,2,4-Trimethylbenzene | 1.8 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,2-Dibromo-3-chloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,2-Dibromoethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,2-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,2-Dichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,2-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,3,5-Trimethylbenzene/P- ethyltoluene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,3-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,3-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 1,4-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 2,2-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 2-Butanone | 4.1 | Jc | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 2-Chloroethylvinyl ether | < 10 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 2-Chlorotoluene/4-Chlorotoluene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 2-Hexanone | < 5.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 4-Isopropyltoluene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| 4-Methyl-2-pentanone | < 5.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Acetone | 68 | С | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Benzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Bromobenzene | < 1.0 | с | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Bromochloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 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 > MDL and < LOQ, Value estimated.
- J = Estimated value below calibration range
- S = Recovery exceeded control limits for this analyte
- N = Indicates presumptive evidence of compound

Date Reported :

Cardein Atachinnon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Pace Analytical Services Inc. 2190 Technology Drive

Schenectady, NY 12308

 Attn To:
 William A. Kotas

 Collected
 : 5/11/2015 12:15:00 PM

 Received
 : 5/11/2015 9:15:00 PM

Collected By : CLIENT

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.

Lab No. : 1505771-001 Client Sample ID: FIELD DUPLICATE-01

Sample Information:

Type: Aqueous

Origin:

| Analytical Method: SW8260C : | | Prep N | <u>1ethod:</u> 503 | IOC | | Analyst: KG |
|------------------------------|----------------|------------------|--------------------|--------------|--------------------|--------------------|
| Parameter(s) | <u>Results</u> | <u>Qualifier</u> | <u>D.F.</u> | <u>Units</u> | Analyzed: | Container: |
| Bromodichloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Bromoform | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Bromomethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Carbon disulfide | < 10 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Carbon tetrachloride | < 1.0 | S | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Chlorobenzene | < 1.0 | | 1 | μg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Chloroethane | 480 | D | 5 | µg/L | 05/15/2015 3:10 PM | Container-01 of 03 |
| Chloroform | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Chloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| cis-1,2-Dichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| cis-1,3-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Dibromochloromethane | < 1.0 | | 1 | μg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Dibromomethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Dichlorodifluoromethane | < 1.0 | cS | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Ethylbenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Hexachlorobutadiene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Isopropylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| m,p-Xylene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Methyl tert-butyl ether | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Methylene chloride | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Naphthalene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| n-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| n-Propylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| o-Xylene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| sec-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Styrene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| tert-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Tetrachloroethene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Toluene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| trans-1,2-Dichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| trans-1,3-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 PM | Container-01 of 03 |
| Trichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 2:28 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 > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

radein Attakhimon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Pace Analytical Services Inc.

2190 Technology Drive Schenectady, NY 12308

Attn To : William A. Kotas Collected : 5/11/2015 12:15:00 PM AS08975 Received : 5/11/2015 9:15:00 PM

Collected By : CLIENT

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.

Lab No. : 1505771-001 Client Sample ID: FIELD DUPLICATE-01

Sample Information:

Type: Aqueous

Origin:

| Analytical Method: SW8260C : | | Prep I | Method: 503 | 30C | | | <u>Analyst:</u> KG |
|------------------------------|----------------|------------------|-------------|--------------|--------------|---------------------|---------------------|
| Parameter(s) | <u>Results</u> | <u>Qualifier</u> | <u>D.F.</u> | <u>Units</u> | | Analyzed: | Container: |
| Trichlorofluoromethane | < 1.0 | | 1 | µg/L | | 05/15/2015 2:28 PM | Container-01 of 03 |
| Vinyl acetate | < 10 | | 1 | µg/L | | 05/15/2015 2:28 PM | Container-01 of 03 |
| Vinyl chloride | 2.2 | | 1 | µg/L | | 05/15/2015 2:28 PM | Container-01 of 03 |
| Surr: 1,2-Dichloroethane-d4 | 94.8 | | 1 | %REC | Limit 53-183 | 05/15/2015 2:28 PM | Container-01 of 03 |
| Surr: 4-Bromofluorobenzene | 106 | | 1 | %REC | Limit 63-140 | 05/15/2015 2:28 PM | Container-01 of 03 |
| Surr: Toluene-d8 | 83.3 | | 1 | %REC | Limit 60-135 | 05/15/2015 2:28 PM | Container-01 of 03 |
| Analytical Method: E300.0 : | | | | | | | <u>Analyst:</u> bka |
| Parameter(s) | <u>Results</u> | <u>Qualifier</u> | <u>D.F.</u> | <u>Units</u> | | Analyzed: | Container: |
| Sulfate | 0.63 | J | 1 | mg/L | | 05/26/2015 10:45 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 > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

- S = Recovery exceeded control limits for this analyte
- N = Indicates presumptive evidence of compound

Date Reported :

addin Atthinson

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Pace Analytical Services Inc. 2190 Technology Drive

Schenectady, NY 12308

 Attn To:
 William A. Kotas

 Collected
 : 5/11/2015 12:15:00 PM

 Received
 : 5/11/2015 9:15:00 PM

Collected By : CLIENT

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.

Lab No. : 1505771-002

Client Sample ID: MW-5A/AR

Sample Information:

Type: Aqueous

Origin:

| Analytical Method: SW8260C : | | Prep N | <u>/lethod;</u> 503 | 80C | | <u>Analyst:</u> KG |
|---|----------------|------------------|---------------------|--------------|--------------------|--------------------|
| Parameter(s) | <u>Results</u> | <u>Qualifier</u> | <u>D.F.</u> | <u>Units</u> | Analyzed: | Container: |
| 1,1,1,2-Tetrachloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,1,1-Trichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,1,2,2-Tetrachloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,1,2-Trichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,1-Dichloroethane | 41 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,1-Dichloroethene | 1.9 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,1-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,2,3-Trichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,2,3-Trichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,2,4-Trichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,2,4-Trimethylbenzene | 2.1 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,2-Dibromo-3-chloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,2-Dibromoethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,2-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,2-Dichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,2-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,3,5-Trimethylbenzene/P- ethyltoluene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,3-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,3-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 1,4-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 2,2-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 2-Butanone | 4.5 | Jc | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 2-Chloroethylvinyl ether | < 10 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 2-Chlorotoluene/4-Chlorotoluene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 2-Hexanone | < 5.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 4-Isopropyltoluene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| 4-Methyl-2-pentanone | < 5.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| Acetone | 77 | С | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| Benzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| Bromobenzene | < 1.0 | с | 1 | µg/L | 05/15/2015 2:50 PM | Container-01 of 03 |
| Bromochloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 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 > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

radein Attchingon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 4 of 20



 575 Broad Hollow Road , Melville, NY 11747

 TEL: (631) 694-3040
 FAX: (631) 420-8436

 NYSDOH ID#10478
 www.pacelabs.com

Pace Analytical Services Inc. 2190 Technology Drive

Schenectady, NY 12308

 Attn To
 :
 William A. Kotas

 Collected
 :
 5/11/2015 12:15:00 PM

 Received
 :
 5/11/2015 9:15:00 PM

Collected By : CLIENT

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.

Lab No. : 1505771-002

Client Sample ID: MW-5A/AR

Sample Information:

Type: Aqueous

Origin:

| Analytical Method: SW8260C : | | Prep N | <u>/lethod:</u> 503 | BOC | <u>Analyst:</u> KG |
|------------------------------|----------------|------------------|---------------------|--------------|---------------------------------------|
| <u>Parameter(s)</u> | <u>Results</u> | <u>Qualifier</u> | <u>D.F.</u> | <u>Units</u> | Analyzed: Container: |
| Bromodichloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Bromoform | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Bromomethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Carbon disulfide | < 10 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Carbon tetrachloride | < 1.0 | S | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Chlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Chloroethane | 470 | D | 5 | µg/L | 05/15/2015 3:31 PM Container-02 of 03 |
| Chloroform | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Chloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| cis-1,2-Dichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| cis-1,3-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Dibromochloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Dibromomethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Dichlorodifluoromethane | < 1.0 | cS | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Ethylbenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Hexachlorobutadiene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Isopropylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| m,p-Xylene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Methyl tert-butyl ether | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Methylene chloride | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Naphthalene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| n-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| n-Propylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| o-Xylene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| sec-Butylbenzene | 1.1 | S | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Styrene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| tert-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Tetrachloroethene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Toluene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| trans-1,2-Dichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| trans-1,3-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 PM Container-01 of 03 |
| Trichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 2:50 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 > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

Cardlin Attchingon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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575 Broad Hollow Road , Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc. 2190 Technology Drive

Schenectady, NY 12308

 Attn To:
 William A. Kotas

 Collected
 : 5/11/2015 12:15:00 PM

 Received
 : 5/11/2015 9:15:00 PM

Collected By : CLIENT

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.

Lab No. : 1505771-002

Client Sample ID: MW-5A/AR

Sample Information:

Type: Aqueous

Origin:

| Analytical Method: SW8260C : | | Prep N | Method: 503 | 30C | | | Analyst: KG |
|------------------------------|----------------|------------------|-------------|--------------|--------------|---------------------|---------------------|
| Parameter(s) | <u>Results</u> | <u>Qualifier</u> | <u>D.F.</u> | <u>Units</u> | | Analyzed: | Container: |
| Trichlorofluoromethane | < 1.0 | | 1 | µg/L | | 05/15/2015 2:50 PM | Container-01 of 03 |
| Vinyl acetate | < 10 | | 1 | µg/L | | 05/15/2015 2:50 PM | Container-01 of 03 |
| Vinyl chloride | 2.4 | | 1 | µg/L | | 05/15/2015 2:50 PM | Container-01 of 03 |
| Surr: 1,2-Dichloroethane-d4 | 93.7 | | 1 | %REC | Limit 53-183 | 05/15/2015 2:50 PM | Container-01 of 03 |
| Surr: 4-Bromofluorobenzene | 104 | | 1 | %REC | Limit 63-140 | 05/15/2015 2:50 PM | Container-01 of 03 |
| Surr: Toluene-d8 | 83.3 | | 1 | %REC | Limit 60-135 | 05/15/2015 2:50 PM | Container-01 of 03 |
| Analytical Method: E300.0 : | | | | | | | <u>Analyst:</u> bka |
| Parameter(s) | <u>Results</u> | <u>Qualifier</u> | <u>D.F.</u> | <u>Units</u> | | Analyzed: | Container: |
| Sulfate | 0.70 | J | 1 | mg/L | | 05/26/2015 10:59 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 > MDL and < LOQ, Value estimated.
- J = Estimated value below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

addin Hatchinson

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 6 of 20



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Pace Analytical Services Inc. 2190 Technology Drive

Schenectady, NY 12308

 Attn To:
 William A. Kotas

 Collected
 : 5/11/2015 11:45:00 AM

 Received
 : 5/11/2015 9:15:00 PM
 AS08977

Collected By : CLIENT

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.

Lab No. : 1505771-003

Client Sample ID: MW-14

Sample Information:

Type: Aqueous

Origin:

| Analytical Method: SW8260C : | | Prep I | Method: 503 | 30C | | <u>Analyst:</u> KG |
|---|----------------|------------------|-------------|--------------|--------------------|--------------------|
| <u>Parameter(s)</u> | <u>Results</u> | <u>Qualifier</u> | <u>D.F.</u> | <u>Units</u> | Analyzed: | Container: |
| 1,1,1,2-Tetrachloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,1,1-Trichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,1,2,2-Tetrachloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,1,2-Trichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,1-Dichloroethane | 48 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,1-Dichloroethene | 3.1 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,1-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,2,3-Trichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,2,3-Trichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,2,4-Trichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,2,4-Trimethylbenzene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,2-Dibromo-3-chloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,2-Dibromoethane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,2-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,2-Dichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,2-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,3,5-Trimethylbenzene/P- ethyltoluene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,3-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,3-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 1,4-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 2,2-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 2-Butanone | 2.2 | Jc | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 2-Chloroethylvinyl ether | < 10 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 2-Chlorotoluene/4-Chlorotoluene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 2-Hexanone | < 5.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 4-Isopropyltoluene | < 1.0 | S | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| 4-Methyl-2-pentanone | < 5.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Acetone | 16 | С | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Benzene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Bromobenzene | < 1.0 | С | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Bromochloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 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 > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

 $Date \ Reported:$

Cadein Alachimon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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575 Broad Hollow Road , Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 <u>www.pacelabs.com</u>

Pace Analytical Services Inc. 2190 Technology Drive

Schenectady, NY 12308

Attn To: William A. Kotas

Collected : 5/11/2015 11:45:00 AM Received : 5/11/2015 9:15:00 PM AS08977

Collected By : CLIENT

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.

Lab No. : 1505771-003

Client Sample ID: MW-14

Sample Information:

Type: Aqueous

Origin:

| Analytical Method: SW8260C : | | Prep N | <u>/lethod:</u> 503 | 30C | | <u>Analyst:</u> KG |
|------------------------------|----------------|------------------|---------------------|--------------|--------------------|--------------------|
| Parameter(s) | <u>Results</u> | <u>Qualifier</u> | <u>D.F.</u> | <u>Units</u> | Analyzed: | Container: |
| Bromodichloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Bromoform | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Bromomethane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Carbon disulfide | < 10 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Carbon tetrachloride | < 1.0 | S | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Chlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Chloroethane | 2.1 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Chloroform | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Chloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| cis-1,2-Dichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| cis-1,3-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Dibromochloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Dibromomethane | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Dichlorodifluoromethane | < 1.0 | cS | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Ethylbenzene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Hexachlorobutadiene | < 1.0 | S | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Isopropylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| m,p-Xylene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Methyl tert-butyl ether | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Methylene chloride | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Naphthalene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| n-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| n-Propylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| o-Xylene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| sec-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Styrene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| tert-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Tetrachloroethene | < 1.0 | S | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Toluene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| trans-1,2-Dichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| trans-1,3-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 PM | Container-01 of 03 |
| Trichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 3:51 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

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

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r = Reporting limit > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

Cadein Attchingon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 8 of 20



575 Broad Hollow Road , Meiville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc. 2190 Technology Drive

Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 5/11/2015 11:45:00 AM Received : 5/11/2015 9:15:00 PM AS08977

Collected By : CLIENT

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.

Lab No. : 1505771-003

Client Sample ID: MW-14

Sample Information: Type: Aqueous

Type: Aquee

Origin:

| Analytical Method: SW8260C : | | Prep Method: 5030C | | | | | <u>Analyst:</u> KG | | |
|--|----------------|--------------------|-------------|--------------|--------------|---------------------|--------------------|--|--|
| Parameter(s) | <u>Results</u> | Qualifier | <u>D.F.</u> | <u>Units</u> | | Analyzed: | Container: | | |
| Trichlorofluoromethane | < 1.0 | | 1 | µg/L | | 05/15/2015 3:51 PM | Container-01 of 03 | | |
| Vinyl acetate | < 10 | | 1 | µg/L | | 05/15/2015 3:51 PM | Container-01 of 03 | | |
| Vinyl chloride | 2.8 | | 1 | µg/L | | 05/15/2015 3:51 PM | Container-01 of 03 | | |
| Surr: 1,2-Dichloroethane-d4 | 96.3 | | 1 | %REC | Limit 53-183 | 05/15/2015 3:51 PM | Container-01 of 03 | | |
| Surr: 4-Bromofluorobenzene | 102 | | 1 | %REC | Limit 63-140 | 05/15/2015 3:51 PM | Container-01 of 03 | | |
| Surr: Toluene-d8 | 82.1 | | 1 | %REC | Limit 60-135 | 05/15/2015 3:51 PM | Container-01 of 03 | | |
| NOTES: Sample received not preserved to a | pH < 2. | | | | | | | | |
| Analytical Method: E300.0 : | | | | | | | Analyst: bka | | |
| <u>Parameter(s)</u> | <u>Results</u> | Qualifier | <u>D.F.</u> | <u>Units</u> | | Analyzed: | Container: | | |
| Sulfate | 31.0 | | 1 | mg/L | | 05/26/2015 11:12 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 > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

- S = Recovery exceeded control limits for this analyte
- N = Indicates presumptive evidence of compound

Date Reported :

Caidein Attachingon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 9 of 20



 575 Broad Hollow Road , Melville, NY 11747

 TEL: (631) 694-3040
 FAX: (631) 420-8436

 NYSDOH ID#10478
 www.pacelabs.com

Pace Analytical Services Inc. 2190 Technology Drive

Schenectady, NY 12308

 Attn To:
 William A. Kotas

 Collected
 : 5/11/2015 11:30:00 AM

 Received
 : 5/11/2015 9:15:00 PM

 AS08978

Collected By : CLIENT

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.

Lab No. : 1505771-004

Client Sample ID: MW-16

Sample Information:

Type: Aqueous

Origin:

| Analytical Method: SW8260C : | | Prep M | ethod: 503 | 30C | | Analyst: KG |
|---|----------------|------------------|-------------|--------------|--------------------|--------------------|
| Parameter(s) | <u>Results</u> | <u>Qualifier</u> | <u>D.F.</u> | <u>Units</u> | Analyzed: | Container: |
| 1,1,1,2-Tetrachloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,1,1-Trichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,1,2,2-Tetrachloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,1,2-Trichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,1-Dichloroethane | 14 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,1-Dichloroethene | 5.6 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,1-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,2,3-Trichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,2,3-Trichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,2,4-Trichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,2,4-Trimethylbenzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,2-Dibromo-3-chloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,2-Dibromoethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,2-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,2-Dichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,2-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,3,5-Trimethylbenzene/P- ethyltoluene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,3-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,3-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 1,4-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 2,2-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 2-Butanone | < 5.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 2-Chloroethylvinyl ether | < 10 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 2-Chlorotoluene/4-Chlorotoluene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 2-Hexanone | < 5.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 4-Isopropyltoluene | < 1.0 | S | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| 4-Methyl-2-pentanone | < 5.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| Acetone | 4.6 | Jc | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| Benzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| Bromobenzene | < 1.0 | С | 1 | µg/L | 05/15/2015 4:12 PM | Container-01 of 03 |
| Bromochloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 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 > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

Cathin Atthinson

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 10 of 20



575 Broad Hollow Road , Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc. 2190 Technology Drive

Schenectady, NY 12308

 Attn To:
 William A. Kotas

 Collected
 : 5/11/2015 11:30:00 AM

 Received
 : 5/11/2015 9:15:00 PM

Collected By : CLIENT

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.

Lab No. : 1505771-004

Client Sample ID: MW-16

Sample Information:

Type: Aqueous

Origin:

| Analytical Method: SW8260C : | Prep Method: 5030C | | | | | <u>Analyst:</u> KG |
|------------------------------|--------------------|------------------|-------------|--------------|-----------------|-----------------------|
| Parameter(s) | <u>Results</u> | <u>Qualifier</u> | <u>D.F.</u> | <u>Units</u> | Analyzed: | Container: |
| Bromodichloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Bromoform | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Bromomethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Carbon disulfide | < 10 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Carbon tetrachloride | < 1.0 | S | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Chlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Chloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Chloroform | 4.9 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Chloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| cis-1,2-Dichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| cis-1,3-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Dibromochloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Dibromomethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Dichlorodifluoromethane | < 1.0 | cS | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Ethylbenzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Hexachlorobutadiene | < 1.0 | S | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Isopropylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| m,p-Xylene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Methyl tert-butyl ether | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Methylene chloride | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Naphthalene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| n-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| n-Propylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| o-Xylene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| sec-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Styrene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| tert-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| Tetrachloroethene | 2.2 | S | 1 | µg/L | 05/15/2015 4:12 | |
| Toluene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | |
| trans-1,2-Dichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | PM Container-01 of 03 |
| trans-1,3-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | |
| Trichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 4:12 | 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

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- r = Reporting limit > MDL and < LOQ, Value estimated.
- J = Estimated value below calibration range
- S = Recovery exceeded control limits for this analyte
- N = Indicates presumptive evidence of compound

Date Reported :

Cadein Atachingon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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2190 Technology Drive

Schenectady, NY 12308

 Attn To:
 William A. Kotas

 Collected
 : 5/11/2015 11:30:00 AM

 Received
 : 5/11/2015 9:15:00 PM

Collected By : CLIENT

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.

Lab No. : 1505771-004

Client Sample ID: MW-16

Sample Information:

Type: Aqueous

Origin:

| Analytical Method: SW8260C : | | Prep N | <u>/lethod:</u> 503 | 30C | | | <u>Analyst:</u> KG |
|------------------------------|-----------|-----------|---------------------|--------------|--------------|---------------------|---------------------|
| Parameter(s) | Results C | Qualifier | <u>D.F.</u> | <u>Units</u> | | Analyzed: | Container: |
| Trichlorofluoromethane | < 1.0 | | 1 | µg/L | | 05/15/2015 4:12 PM | Container-01 of 03 |
| Vinyl acetate | < 10 | | 1 | µg/L | | 05/15/2015 4:12 PM | Container-01 of 03 |
| Vinyl chloride | 1.0 | | 1 | µg/L | | 05/15/2015 4:12 PM | Container-01 of 03 |
| Surr: 1,2-Dichloroethane-d4 | 94.3 | | 1 | %REC | Limit 53-183 | 05/15/2015 4:12 PM | Container-01 of 03 |
| Surr: 4-Bromofluorobenzene | 103 | | 1 | %REC | Limit 63-140 | 05/15/2015 4:12 PM | Container-01 of 03 |
| Surr: Toluene-d8 | 83.4 | | 1 | %REC | Limit 60-135 | 05/15/2015 4:12 PM | Container-01 of 03 |
| Analytical Method: E300.0 : | | | | | | | <u>Analyst:</u> bka |
| Parameter(s) | Results C | Qualifier | <u>D.F.</u> | <u>Units</u> | | Analyzed: | Container: |
| Sulfate | 20.5 | | 1 | mg/L | | 05/26/2015 11:26 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

 $\ensuremath{\mathsf{c}}$ = Calibration acceptability criteria exceeded for this analyte

r = Reporting limit > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

- S = Recovery exceeded control limits for this analyte
- N = Indicates presumptive evidence of compound

Date Reported :

radein Attehingon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Pace Analytical Services Inc. 2190 Technology Drive

Schenectady, NY 12308

Attn To : William A. Kotas Collected : 5/11/2015 1:30:00 PM AS08979 Received : 5/11/2015 9:15:00 PM

Collected By : CLIENT

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.

Lab No. : 1505771-005 Client Sample ID: MW-CHA-RFI-7 Sample Information:

Type: Aqueous

Origin:

| Analytical Method: SW8260C : | | Prep N | <u>Method:</u> 503 | 30C | | Analyst: KG |
|---|---------|------------------|--------------------|--------------|--------------------|--------------------|
| Parameter(s) | Results | <u>Qualifier</u> | <u>D.F.</u> | <u>Units</u> | Analyzed: | Container: |
| 1,1,1,2-Tetrachloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,1,1-Trichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,1,2,2-Tetrachloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,1,2-Trichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,1-Dichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,1-Dichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,1-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,2,3-Trichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,2,3-Trichloropropane | < 1.0 | | 1 | μg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,2,4-Trichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,2,4-Trimethylbenzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,2-Dibromo-3-chloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,2-Dibromoethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,2-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,2-Dichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,2-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,3,5-Trimethylbenzene/P- ethyltoluene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,3-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,3-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 1,4-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 2,2-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 2-Butanone | < 5.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 2-Chloroethylvinyl ether | < 10 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 2-Chlorotoluene/4-Chlorotoluene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 2-Hexanone | < 5.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 4-Isopropyltoluene | < 1.0 | S | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| 4-Methyl-2-pentanone | < 5.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Acetone | 2.7 | Jc | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Benzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Bromobenzene | < 1.0 | С | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Bromochloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | 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 > MDL and < LOQ, Value estimated.
- J = Estimated value below calibration range
- S = Recovery exceeded control limits for this analyte
- N = Indicates presumptive evidence of compound

Date Reported :

Cathin Attchingon

Project Manager

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Pace Analytical Services Inc. 2190 Technology Drive

Schenectady, NY 12308

 Attn To:
 William A. Kotas

 Collected
 : 5/11/2015 1:30:00 PM

 Received
 : 5/11/2015 9:15:00 PM

Collected By : CLIENT

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.

Lab No. : 1505771-005 Client Sample ID: MW-CHA-RFI-7

Sample Information:

Type: Aqueous

Origin:

| Parameter(s) Results Qualifier D.F. Units Analyzed: Container: Bromodichloromethane <1.0 1 µg/L 08/15/2016.432 PM Container-01 of 09 Bromortinane <1.0 1 µg/L 08/15/2016.432 PM Container-01 of 09 Carbon disulfide <1.0 1 µg/L 08/15/2016.432 PM Container-01 of 09 Carbon tetrachloride <1.0 S 1 µg/L 08/15/2016.432 PM Container-01 of 09 Chlorobenzane <1.0 1 µg/L 08/15/2016.432 PM Container-01 of 09 Chlorobenzane <1.0 1 µg/L 08/15/2016.432 PM Container-01 of 09 Chlorobentane <1.0 1 µg/L 08/15/2015.432 PM Container-01 of 09 Cish-1,2-Dichlorobenene <1.0 1 µg/L 08/15/2015.432 PM Container-01 of 09 Cish-1,2-Dichloropropene <1.0 1 µg/L 08/15/2015.432 PM Container-01 of 09 Dibromothane <1.0 1 µg/L 08/15/2016.432 PM | Analytical Method: SW8260C : | Prep Method: 5030C | | | 30C | | <u>Analyst;</u> KG |
|--|------------------------------|--------------------|-----------|-------------|--------------|--------------------|--------------------|
| Bromdorm <1 µg/L Os/15/2015 4:32 PM Containe-01 of 09 Bromdorm <1.0 | Parameter(s) | Results | Qualifier | <u>D.F.</u> | <u>Units</u> | Analyzed: | Container: |
| Bromomethane1.01 $\mu g/L$ 05/15/2015 4:32 PMContainer-01 of 09Carbon disulfide<10 | Bromodichloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Carbon disultide Container-01 of 09 Carbon disultide <10 | Bromoform | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Carbon tetrachloride <1.0 S 1 µg/L 05/15/2015 4:32 PM Container-01 of 09 Chlorobenzene <1.0 | Bromomethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Chloroberzene (1) <th(1)< th=""> <</th(1)<> | Carbon disulfide | < 10 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Chlorosthate (1.0 1 µg/L 05/15/2015 4/32 PM Container-01 of 09 Chlorostmane <1.0 | Carbon tetrachloride | < 1.0 | S | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Chloroform < | Chlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Chloromethane <1.0 1 µg/L 05/15/2015 4:32 PM Container-01 of 09 cis-1,2-Dichloroethene <1.0 | Chloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| cis-1,2-Dichloroethene < 1.0 1 µg/L 05/15/2015 4:32 PM Container-01 of 09 cis-1,3-Dichloropropene < 1.0 | Chloroform | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| International construction Internation Internation <thinternatis internation<="" is="" th=""> Internation</thinternatis> | Chloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Dibromochloromethane < 1.0 1 µg/L 05/15/2015 4:32 PM Container-01 of 09 Dibromomethane < 1.0 | cis-1,2-Dichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Dibromomethane < 1 µg/L 05/15/2015 4:32 PM Container-01 of 09 Dibrhorodifluoromethane < 1.0 | cis-1,3-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Dichlorodifluoromethane < 1.0 CS 1 µg/L 05/15/2015 4:32 PM Container-01 of 09 Ethylbenzene < 1.0 | Dibromochloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Bindividualities File File <td>Dibromomethane</td> <td>< 1.0</td> <td></td> <td>1</td> <td>µg/L</td> <td>05/15/2015 4:32 PM</td> <td>Container-01 of 09</td> | Dibromomethane | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Hexachlorobutadiene < 1.0 S 1 µg/L 05/15/2015 4:32 PM Container-01 of 09 Isopropylbenzene < 1.0 | Dichlorodifluoromethane | < 1.0 | cS | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Isopropylbenzene < 1.0 S 1 µg/L 05/15/2015 4:32 PM Container-01 of 09 m,p-Xylene < 1.0 | Ethylbenzene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| m,p-Xylene < 1.0 | Hexachlorobutadiene | < 1.0 | S | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Methyl tert-butyl ether < 1.0 | isopropylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Methylene chloride < 1.0 1 µg/L 05/15/2015 4:32 PM Container-01 of 09 Naphthalene < 1.0 | m,p-Xylene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Naphthalene < 1.0 1 µg/L 05/15/2015 4:32 PM Container-01 of 09 n-Butylbenzene < 1.0 | Methyl tert-butyl ether | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| n-Butylbenzene < 1.0 | Methylene chloride | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| n-Propylbenzene < 1.0 | Naphthalene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| o-Xylene < 1.0 1 µg/L 05/15/2015 4:32 PM Container-01 of 09 sec-Butylbenzene < 1.0 | n-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| sec-Butylbenzene < 1.0 | n-Propylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Styrene < 1.0 1 µg/L 05/15/2015 4:32 PM Container-01 of 09 tert-Butylbenzene < 1.0 | o-Xylene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| tert-Butylbenzene < 1.0 | sec-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Tetrachloroethene < 1.0 S 1 μg/L 05/15/2015 4:32 PM Container-01 of 09 Toluene < 1.0 | Styrene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Toluene < 1.0 1 μg/L 05/15/2015 4:32 PM Container-01 of 09 trans-1,2-Dichloroethene < 1.0 | tert-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| trans-1,2-Dichloroethene < 1.0 1 µg/L 05/15/2015 4:32 PM Container-01 of 09 trans-1,3-Dichloropropene < 1.0 | Tetrachloroethene | < 1.0 | S | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| trans-1,3-Dichloropropene< 1.01 $\mu g/L$ 05/15/2015 4:32 PMContainer-01 of 09 | Toluene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| | trans-1,2-Dichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| Trichloroethene < 1.0 1 μg/L 05/15/2015 4:32 PM Container-01 of 09 | trans-1,3-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | Container-01 of 09 |
| | Trichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 4:32 PM | 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 > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

addin Attchingon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 14 of 20



 TEL: (631) 694-3040
 FAX: (631) 420-8436

 NYSDOH ID#10478
 www.pacelabs.com

Pace Analytical Services Inc. 2190 Technology Drive

Schenectady, NY 12308

Collected By : CLIENT

 Attn To
 :
 William A. Kotas

 Collected
 :
 5/11/2015 1:30:00 PM

 Received
 :
 5/11/2015 9:15:00 PM

Lab No. : 1505771-005

LABORATORY RESULTS

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.

Results for the samples and analytes requested

Client Sample ID: MW-CHA-RFI-7

Sample Information:

Type: Aqueous

Origin:

| Analytical Method: SW8260C : | | Prep I | <u>Method:</u> 503 | 30C | | | <u>Analyst:</u> KG |
|------------------------------|----------------|------------------|--------------------|--------------|--------------|---------------------|--------------------|
| <u>Parameter(s)</u> | <u>Results</u> | <u>Qualifier</u> | <u>D.F.</u> | <u>Units</u> | | Analyzed: | Container: |
| Trichlorofluoromethane | < 1.0 | | 1 | µg/L | | 05/15/2015 4:32 PM | Container-01 of 09 |
| Vinyl acetate | < 10 | | 1 | µg/L | | 05/15/2015 4:32 PM | Container-01 of 09 |
| Vinyl chloride | < 1.0 | | 1 | µg/L | | 05/15/2015 4:32 PM | Container-01 of 09 |
| Surr: 1,2-Dichloroethane-d4 | 95.1 | | 1 | %REC | Limit 53-183 | 05/15/2015 4:32 PM | Container-01 of 09 |
| Surr: 4-Bromofluorobenzene | 102 | | 1 | %REC | Limit 63-140 | 05/15/2015 4:32 PM | Container-01 of 09 |
| Surr: Toluene-d8 | 82.9 | | 1 | %REC | Limit 60-135 | 05/15/2015 4:32 PM | Container-01 of 09 |
| Analytical Method: E300.0 : | | | | | | | Analyst: bka |
| Parameter(s) | Results | Qualifier | <u>D.F.</u> | <u>Units</u> | | Analyzed: | Container: |
| Sulfate | 39.9 | | 1 | mg/L | | 05/26/2015 11:39 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

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

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r = Reporting limit > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

addin Hakhimon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 15 of 20



 575 Broad Hollow Road , Melville, NY 11747

 TEL: (631) 694-3040
 FAX: (631) 420-8436

 NYSDOH ID#10478
 www.pacelabs.com

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

Attn To : William A. Kotas

Collected : 5/11/2015 Received : 5/11/2015 9:15:00 PM AS08980 Collected By : CLIENT 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.

Lab No. : 1505771-006 Client Sample ID: TRIP BLANK-01 Sample Information:

Type: Trip Blank

Origin:

| Analytical Method: SW8260C : | | Prep N | Nethod: 503 | 30C | | Analyst: KG |
|---|----------------|-----------|-------------|--------------|--------------------|--------------------|
| <u>Parameter(s)</u> | <u>Results</u> | Qualifier | <u>D.F.</u> | <u>Units</u> | Analyzed: | Container: |
| 1,1,1,2-Tetrachloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,1,1-Trichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,1,2,2-Tetrachloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,1,2-Trichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,1-Dichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,1-Dichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,1-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,2,3-Trichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,2,3-Trichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,2,4-Trichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,2,4-Trimethylbenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,2-Dibromo-3-chloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,2-Dibromoethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,2-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,2-Dichloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,2-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,3,5-Trimethylbenzene/P- ethyltoluene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,3-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,3-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 1,4-Dichlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 2,2-Dichloropropane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 2-Butanone | < 5.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 2-Chloroethylvinyl ether | < 10 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 2-Chlorotoluene/4-Chlorotoluene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 2-Hexanone | < 5.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 4-Isopropyltoluene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| 4-Methyl-2-pentanone | < 5.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Acetone | < 10 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Benzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Bromobenzene | < 1.0 | с | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Bromochloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |

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

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N = Indicates presumptive evidence of compound

Date Reported :

Caidlin Attchingon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Pace Analytical"

575 Broad Hollow Road , Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 <u>www.pacelabs.com</u>

Pace Analytical Services Inc. 2190 Technology Drive

Schenectady, NY 12308

 Attn To:
 William A. Kotas

 Collected
 : 5/11/2015

 Received
 : 5/11/2015 9:15:00 PM

Collected By : CLIENT

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.

Lab No. : 1505771-006 Client Sample ID: TRIP BLANK-01

Sample Information: Type: Trip Blank

spot mp bian

Origin:

| Analytical Method: SW8260C : | | Prep N | <u>Method:</u> 503 | 30C | | <u>Analyst:</u> KG |
|------------------------------|----------------|------------------|--------------------|--------------|--------------------|--------------------|
| Parameter(s) | <u>Results</u> | <u>Qualifier</u> | <u>D.F.</u> | <u>Units</u> | Analyzed: | Container: |
| Bromodichloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Bromoform | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Bromomethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Carbon disulfide | < 10 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Carbon tetrachloride | < 1.0 | S | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Chlorobenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Chloroethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Chloroform | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Chloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| cis-1,2-Dichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| cis-1,3-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Dibromochloromethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Dibromomethane | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Dichlorodifluoromethane | < 1.0 | cS | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Ethylbenzene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Hexachlorobutadiene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Isopropylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| m,p-Xylene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Methyl tert-butyl ether | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Methylene chloride | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Naphthalene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| n-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| n-Propylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| o-Xylene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| sec-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Styrene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| tert-Butylbenzene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Tetrachloroethene | < 1.0 | S | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Toluene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| trans-1,2-Dichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| trans-1,3-Dichloropropene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 PM | Container-01 of 03 |
| Trichloroethene | < 1.0 | | 1 | µg/L | 05/15/2015 2:09 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 > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

Cadein Atterimon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 17 of 20



575 Broad Hollow Road , Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 <u>www.pacelabs.com</u> Pace Analytical Services Inc.

2190 Technology Drive

Schenectady, NY 12308

 Attn To:
 William A. Kotas

 Collected
 : 5/11/2015

 Received
 : 5/11/2015 9:15:00 PM
 AS08980

Collected By : CLIENT

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.

Lab No. : 1505771-006

Client Sample ID: TRIP BLANK-01

Sample Information:

Type: Trip Blank

Origin:

| Analytical Method: SW8260C : | Prep Method: 5030C | | | | | Analyst: k | | |
|------------------------------|--------------------|----------|-------------|--------------|-------|------------|--------------------|--------------------|
| Parameter(s) | <u>Results</u> Q | ualifier | <u>D.F.</u> | <u>Units</u> | | | Analyzed: | Container: |
| Trichlorofluoromethane | < 1.0 | | 1 | µg/L | | | 05/15/2015 2:09 PM | Container-01 of 03 |
| Vinyl acetate | < 10 | | 1 | µg/L | | | 05/15/2015 2:09 PM | Container-01 of 03 |
| Vinyl chloride | < 1.0 | | 1 | µg/L | | | 05/15/2015 2:09 PM | Container-01 of 03 |
| Surr: 1,2-Dichloroethane-d4 | 93.0 | | 1 | %REC | Limit | 53-183 | 05/15/2015 2:09 PM | Container-01 of 03 |
| Surr: 4-Bromofluorobenzene | 102 | | 1 | %REC | Limit | 63-140 | 05/15/2015 2:09 PM | Container-01 of 03 |
| Surr: Toluene-d8 | 83.1 | | 1 | %REC | Limit | 60-135 | 05/15/2015 2:09 PM | Container-01 of 03 |

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 > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound

Date Reported :

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Project Manager

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1A-IN

EPA SAMPLE NO INORGANIC ANALYSIS DATA SHEET FIELD DUPLICATE-01 Lab Name: PACE ANALYTICAL Contract: Lab Code: <u>10478</u> Case No. NRAS No.: SDG No.: PACE-NY179 Matrix (soil/water): <u>WATER</u> Lab Sample ID: <u>1505771-001</u> Level (low/med): LOW Date Received: 05/11/2015 % Solids: 0.0

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

| CAS No. | Analyte | Concentration | С | Q | Μ |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron | 5920 | | * | Ρ |
| | | | | | |

Comments:

FORM I - IN

ILM05.3

1A-IN INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

| 179 |
|-----|
| |
| |
| |
| |

Concentration Units (ug/L or mg/kg dry weight): $\underline{\rm UG/L}$

| CAS No. | Analyte | Concentration | С | Q | М |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron | 5780 | | * | P |
| | | | | | |

Comments:

1A-IN INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

| | INORGANIC ANA | LYSIS DATA SHEET | MW-14 |
|------------------------|---------------|------------------|---------------------|
| Lab Name: PACE ANALY | TICAL | Contract: | |
| Lab Code: <u>10478</u> | Case No. | NRAS No.: | SDG No.: PACE-NY179 |
| Matrix (soil/water): | WATER | Lab Sample ID: | 1505771-003 |
| Level (low/med): | LOW | Date Received: | 05/11/2015 |
| % Solids: | 0.0 | | |

Concentration Units (ug/L or mg/kg dry weight): $\underline{\rm UG/L}$

| CAS No. | Analyte | Concentration | С | Q | Μ |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron | 9130 | | * | Р |
| | | | | | |

Comments:

1A-IN INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

| MW- | 1 | 6 |
|-----|---|---|
|-----|---|---|

| Lab Name: <u>PACE ANALY</u> | TICAL | Contract: | |
|-----------------------------|----------|----------------|---------------------|
| Lab Code: <u>10478</u> | Case No. | NRAS No.: | SDG No.: PACE-NY179 |
| Matrix (soil/water): | WATER | Lab Sample ID: | 1505771-004 |
| Level (low/med): | LOW | Date Received: | 05/11/2015 |
| % Solids: | 0.0 | | |

Concentration Units (ug/L or mg/kg dry weight): $\underline{\rm UG/L}$

| CAS No. | Analyte | Concentration | С | Q | М |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron | 30.9 | J | * | Р |
| | | | | | |

Comments:

1A-IN INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

| | INORGANI | C ANALISIS DATA SALLI | MW-CHA-RFI-7 |
|-----------------------|---------------------|-----------------------|----------------------------|
| Lab Name: PACE | ANALYTICAL | Contract: | |
| Lab Code: <u>1047</u> | 8 Case No. | NRAS No.: | SDG No.: <u>PACE-NY179</u> |
| Matrix (soil/wa | ater): <u>WATER</u> | Lab Sample ID: | 1505771-005 |
| Level (low/med) | : LOW | Date Received: | 05/11/2015 |
| % Solids: | 0.0 | | |

Concentration Units (ug/L or mg/kg dry weight): $\underline{\rm UG/L}$

| CAS No. | Analyte | Concentration | С | Q | М |
|-----------|---------|---------------|---|---|---|
| 7439-89-6 | Iron | 184 | | * | Р |
| | | | | | |

Comments:

1A-IN INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

| | INORGANIC ANA | LISIS DATA SHEET | PBWF1 |
|------------------------|------------------------|--------------------|---------------------|
| Lab Name: PACE ANALY | TICAL | Contract: | |
| Lab Code: <u>10478</u> | Case No. | NRAS No.: | SDG No.: PACE-NY179 |
| Matrix (soil/water): | WATER | Lab Sample ID: | MB1-50082 |
| Level (low/med): | LOW | Date Received: | |
| % Solids: | 0.0 | | |
| Concentration Units | (ug/L or mg/kg dry wei | .ght): <u>UG/L</u> | |

CAS No.AnalyteConcentrationCQM7439-89-6Iron100UP

Comments:

FORM I - IN

| Pace Analytical | 575 E TEL: (631) 694-3040 FA | Broad I Melvill 4X: (63 | | Sample R | eceipt Checklist |
|--|-----------------------------------|---|----------------------------|-------------------|----------------------|
| Client Name: PACE-NY | | | Date an | d Time Received: | 5/11/2015 9:15:00 PM |
| Work Order Number: 1505771 RcptN | lo: 1 | | Receive | ed by: Ajay Singh | |
| Completed by: Renorsailer De | | Revi | ewed by: | Jempy | a- |
| Completed Date: <u>5/12/2015 12:47:48 PM</u> | | Revie | ewed Date: | <u>5/19/20</u> : | 15 9:05:57 PM |
| Carrier name: PACE Pickup | | | | | |
| Chain of custody present? Chain of custody signed when relinquished and received? Chain of custody agrees with sample labels? Are matrices correctly identified on Chain of custody? Is it clear what analyses were requested? | Yes ? Yes Yes Yes Yes | Y Y Y | No No No No No | | |
| Custody seals intact on sample bottles? | Yes | | | Not Present | \checkmark |
| Samples in proper container/bottle? Were correct preservatives used and noted? Preservative added to bottles: | Yes Yes | | No 🗌 No 🗌 | NA | |
| Sample Condition? Sufficient sample volume for indicated test? Were container labels complete (ID, Pres, Date)? All samples received within holding time? | Intact Yes Yes Yes | | Broken No No No | Leaking | |
| Was an attempt made to cool the samples? All samples received at a temp. of > 0° C to 6.0° C? Response when temperature is outside of range: | Yes Yes | | No 🗌 No 🗌 | NA NA | |
| Sample Temp. taken and recorded upon receipt? | Yes | | No 🗌 | | 1.9 ° |
| Water - Were bubbles absent in VOC vials? | Yes | | No 🗌 | No Vials | |
| Water - Was there Chlorine Present? | Yes Yes | ✓ | No 🗔 No 🗌 | NA No Water | |
| Water - pH acceptable upon receipt? Are Samples considered acceptable? | Yes | Image: A start of the start of | | NO Water | |
| Custody Seals present? Airbill or Sticker? Airbill No: | Yes Air Bill | | No 🗌 Sticker 🗌 | Not Present | |
| Case Number: SDG: PACE-NY180 | | S | SAS: | | |
| Any No response should be detailed in the comments se | ction below, if applicat | ole. | | | |
| Client Contacted? Yes No No Contact Mode: Phone: Fax: Client Instructions: | Email: | acted: | In Person | : | |
| Date Contacted: Regarding: Comments: Sample preservation not verified at Schenectady Lab CorrectiveAction: | Contacted By: | | | | |



 TEL: (631) 694-3040
 FAX: (631) 420-8436

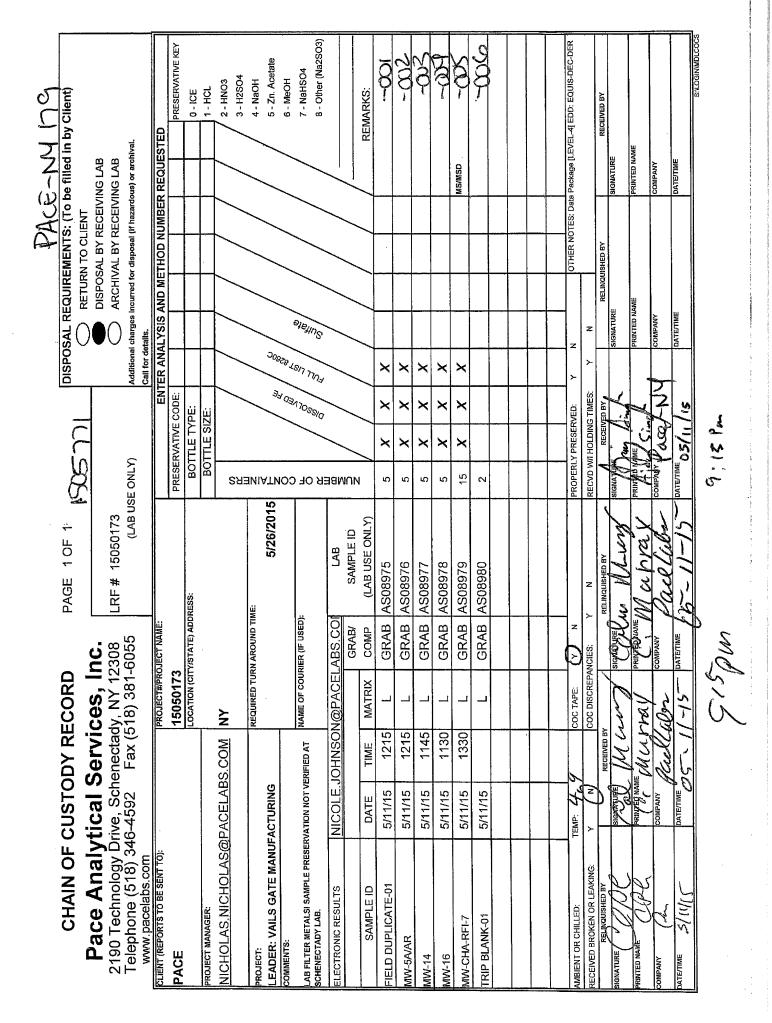
 NYSDOH ID#10478
 www.pacelabs.com

WorkOrder : 1505771

<u>Certifications</u>

| S TATE | CERTIFICATION # |
|--------------------|------------------------|
| NEW YOR K | 10478 |
| NEW JERSEY | NY1 58 |
| CONNECTICUT | P H-0435 |
| MARYLAND | 208 |
| MAS S AC HUS E TTS | M-NY026 |
| NEW HAMPS HIRE | 2987 |
| R HODE IS LAND | LAO00340 |
| PENNS YLVANIA | 68-00350 |

Page 20 of 20



| CHAIN OF CUSTODY RECORD | USTODY | REC | ORD | 1 | PAGE 1 OF 1 | | | | | REQUIREMENTS: (To be filled in by Client) RETURN TO CLIENT | o be filled in | by Client) |
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| 2190 Technology Drive, Schenectady, NY 12308 | ve, Schene | rvict setady, | 35, 1 NY 12: | ن 2000 | LRF # 15050173 | - | | | | DISPOSAL BY RECEIVING LAB ARCHIVAL BY RECEIVING LAB | IVING LAB IVING LAB | |
| Telephone (518) 346- www.pacelabs.com | -4592 Fa | ax (518 |) 381-6 | 3055 | (LAB US | (LAB USE ONLY) | | Additional char, Call for details. | al charges incurred letails. | Additional charges incurred for disposal (if hazardous) or archival. Call for details. | irdous) or archival. | |
| CLIENT (REPORTS TO BE SENT TO): | | PRC | PROJECT#/PROJECT NAME: | ECT NAME: | | | | ENTER AN | I DNA SISYAND I | ENTER ANALYSIS AND METHOD NUMBER REQUESTED | ER REQUESTI | ED |
| PACE | • | 15 | 15050173 | | | PRESER | PRESERVATIVE CODE: | DE: | | | | PRESERVATIVE KEY |
| | | FOC | ATION (CITY | LOCATION (CITY/STATE) ADDRESS | RESS: | BOT | BOTTLE TYPE: | | | | | 0 - ICE |
| | | | | | | BOT | BOTTLE SIZE: | | | | | 1 - HCL |
| | AUELADO.U | | | | | ଟଧ | | | | | / | 2 - HNO3 3 - H2SO4 |
| PROJECT: LEADER: VAILS GATE MANUFACTURING | CTURING | REC | IUIRED TURN | REQUIRED TURN AROUND TIM | AE: 5/26/2015 | aniatn | | 300 31 | | | | 4 - NaOH 5 - Zn. Acetate |
| COMMENTS: | | | | | | 100 | _ | AED P | | / | | 6 - MeOH |
| LAB FILTER METALSI SAMPLE PRESERVATION NOT VERIFIED AT SCHENECTADY LAB. | VTION NOT VERIFIEI | | E UF CUUKI. | EK (IF USED): | | R OF | -0551G | ENT TY | Reying | | / | 7 - NaHSO4 8 - Other (Ne2SO3) |
| ELECTRONIC RESULTS | NICOLE. JOHNSON@PACELABS.COI | NSON@ | PACEL | ABS.COI | LAB | 1381 | , | | | | _ | |
| | | | | GRAB/ | SAMPLE ID | พกเ | / | <u> </u> | | / | | |
| SAMPLE ID | DATE TI | TIME | MATRIX | COMP | (LAB USE ONLY) | > | | / | / / | / / | | REMARKS: |
| FIELD DUPLICATE-01 | 5/11/15 | 1215 | | GRAB | AS08975 | 2 | X X | X X | | | Revise | zer cor |
| MW-5A/AR | 5/11/15 | 1215 | | GRAB | AS08976 | 5 | X X | x X | | | <i>lece</i> | ived 5/15 |
| MW-14 | 5/11/15 | 1145 | | GRAB | AS08977 | 5 | x | κ x | | | Aron | N DACE-N |
| MW-16 | 5/11/15 | 1130 | | GRAB. | AS08978 | 5 | x x | x x | | | | HNU |
| MW-CHA-RFI-7 | 5/11/15 | 1330 | | GRAB | AS08979 | 15 | X X | x v | | | CISM/SM | 1 slidis |
| TRIP BLANK-01 | 5/11/15 | | | GRAB | AS08980 | 2 | | | 31000×c | | | |
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| | TEMP: | coc | COC TAPE: | z X | | PROPERLY | PROPERLY PRESERVED: | 7 | Z | OTHER NOTES: D | ata Package (LEVE) | OTHER NOTES: Data Package [LEVEL-4] EDD: EQUIS-DEC-DER |
| RECEIVED BROKEN OR LEAKING: | N N | COC | COC DISCREPANCIES: | | N | RECVD W/I | RECVD W/I HOLDING TIMES: | ES: Y | z | | | |
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| | | | | ÷., | | | | | | | | SALOGINWDLCOCS |
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* ...

, CHAIN-OF-CUSTODY / Analytical Request Document

| New | New York Office | | 1)->>> | | | | | | | |
|---|--|---|-------------------|--|---|--------------------|---------------------|-----------------------------|----------------------|----------|
| Pace Analytical scher | 2190 Technology Dr. Schenectady, NY 12308 | The Chain-of-Custody | is a LEGAL DO | CUMENT. All relevan | The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accuracy. | accelaraj. | | | | |
| wave pacelabs com | (518) 346-4592 section B | Section C | | | | | | Page: 1 | đ | _ |
| Section A Remitted Client Information: | Required Project Information: | matio | | | | | DECLINATORY PROGRAM | | | |
| Commany I eader Professional Services | Report To: Keith Keller | Attention: Kei | Keith Keller | | יך | | | | | i |
| 2013 Michala Drive Suite 1 | Copy To: na | Company Name: Les | der Professic | Leader Professional Services | C NPDES F GROU | | DRINKING WALER | | | |
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| | Purchase | Pace Quote Reference: #00012704 | #00012704 | | SITE | | New Y | New York State | | |
| | | Cholas Nicholas Nicholas Nicholas | Nicholas Nic | holas | LOCATION | | | | | |
| Phone: 716-565-0963 Fax: na | Project Name: Vails Gate Manutac | urace Project manager. | | | | Filtered (Y/N) | | *Specify Metals/Inorganics: | /Inorganics: | |
| | | Pace Profile #: | | | | | | | | |
| Requested Due Date/TAT: Standard Z-Week Project Number. | | | | | | REQUESTED ANALYSES | | | | |
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| Section D | SODE | ECTIC | | Preservatives | ist ist ist ist | | | | | |
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| | C | 145 | × 7 | × | x x x x x | | | | | |
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| MW-16 | υ _. . | 05-1 | | | X X X X X | | | | | |
| MW-CHA-RFI-7 | WT G 511115 | 152 | | | | | | | | |
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DATE Signed (MM / DD / YY):

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SIGNATURE of SAMPLER:

| Face Analytical | dical | ÷ | Sam | າະໄດຍາາໄ | ijen Upr | Sam <mark>kh@nnditi</mark> sy Upon Receipt | | | - |
|---|------------------------|----------------------------|-------------------------------|------------------------------------|-----------------------------|---|------------------------------|----------|----------------------|
| | | | | 150501732 | | CLIENT NAME: | Leader Professional Services | soul Ser | Ures |
| dex a UPS a | Client 🗆 | Pace 🖞 | Other | | | | | | P |
| TRACKING # W/A | | CUSTODY | CUSTODY SEAL PRESENT: Yes | NT: Yes 🗆 | No R | INTACT: Yes | | N/A'8 | 1 |
| /rap 🗆 | Bubble Bags & | | None 🗆 | Other a | D | ICE USED: Wet 🕅 | Blue | | |
| | IR Gun 03 🗹 | #122087967 | 67 🗆 | Ŭ | DOLER TEMI | COOLER TEMPERATURE (°C): | <u>٦, ٥, ٦</u> | د (۱۹) | |
| BIOLOGICAL TISSUE IS FROZEN: Yes 🗆 | No 🗆 | N/A & | | | Te | Temp should be above freezing to 6°C | ove freezing to 6 | ş°C | |
| | | | | CC | COMMENTS: | | | | |
| Chain of Custody Present: | X es | DN0 | | 1. | | | | | |
| Chain of Custody Filled Out: | XYes | DN0 | | 2. | | | | | |
| Chain of Custody Relinquished: | "SYes | DN0 | | 3. | | | | | |
| Sampler Name / Signature on COC: | K ves | □No | | 4. | | | | | |
| Samples Arrived within Hold Time: | Ľ X es | ON0 | | 5. | | | | | |
| Short Hold Time Analysis (<72hr): | □ Yes | NV0 | | 6 | | | | | |
| Rush Turn Around Time Requested: | ΠYes | K No | | 7. | | | | | |
| Sufficient Volume: | ы К | on□ | | <u>8</u> . | | | | | |
| Correct Containers Used: | IX Yes | | | 9. | | | | | |
| - Pace Containers Used: | XYes | DNO | | | | | | | |
| Containers Intact: | tes € | ON0 | | 10. | | | | | |
| Filtered volume received for Dissolved tests: | | °N D | XVIA XVIA | 11. | | | | | |
| Sample Labels match COC: | X ^{es} | No | | 12. | | | | | |
| - Includes date/time/ID/Analysis | | | | | | | | | |
| All containers needing preservation have been checked: | Tres | on | ZNIA | 13. | | | | | |
| All containers needing preservation are in | □Yes | ON [] | MIA | | | | | | |
| compliance with EPA recommendation: | | | | Initial when | C20 5 | Lot # (| ā. | vative: | |
| - Exceptions that are not checked: VOA | | | | completed: | | | んたい語とく | | |
| Headspace in VOA Vials (>6mm): | Dyes | ON0 | KN A | 14. | VV VV | | | | |
| Trip Blank Present: | ⊡Yes | OND | K NA | 15. | | | | | |
| Trip Blank Custody Seals Present: Pace Trip Blank Lot #: $\mathcal{N} A$ | □Yes | ON0 | BINA | | · | | | | |
| filled in: C권은 | <u>5/11/18</u> | Line-Out (| Includes Cop | ying Shipping I | Documents | Line-Out (Includes Copying Shipping Documents and verifying sample pH): | | | Skidts |
| | | Log In (Inc Labeling (I | ludes notifyi ncludes Scar | ing PM of any c nning Bottles a | fiscrepacies nd entering | Log In (Includes notifying PM of any discrepacies and documenting in LIMS): Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): | (in LIMS): gbook): | CJP S/ | 5/11/11_ S/11/11_ |
| LOGIN SCUR FORM 052914 Rev01 01 | 01 | | | | | | | | |
| | 1 | | | | | | | | |



Attachment B

Data Validation Summary

2813 WEHRLE DRIVE • SUITE 1 • WILLIAMSVILLE, NEW YORK • 14221 PHONE: 716-565-0963 • FAX: 716-565-0964 • LEADERCS.COM



Data Usability Summary Report – July 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 May 11, 2015. A total of six (6) samples were collected during the May 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 8260Dissolved Iron by ICPUSEPA Method 200.7 Rev. 4.4Miscellaneous Field AnalysisDissolved Oxygen, pH, Reduction Potential, Temperature, TurbidityTotal Organic Carbon ("TOC")USEPA SM 5310B-00.11SulfateUSEPA 300.0

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

| Sample Package ID | Date Collected | Date Received by Pace | Sample Matrix | Requested Analyses | Sample Temperature (°C) |
|-------------------------|-------------------|--|------------------|---|-------------------------------|
| 15050173 | 05/11/2025 | 05/11/2015 (Schenectady) 05/15/2105 (Long Island) | Water | TCL 8260 Metals Misc. Field Analysis Nitrate TOC Sulfate | 4.6 |

Samples were collected and received on the following schedule:

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 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 May 11, 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 May 11, 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 May 11, 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). 15 out of 132 analyte recoveries were outside of QC limits. 13 out of 66 recoveries were outside of QC limits.
- Sample MW-CHA-RFI-7 was analyzed as the matrix spike/matrix spike duplicate. The duplicate analysis results did not meet acceptance criteria for iron.

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

May 11, 2015 Sampling Event

| Sample ID | | 15050173 | | |
|--|---|--|---|---|
| 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%. Results for acetone and MEK are flagged with a "Z" qualifier, indicating that they are regarded estimated. All data quality objectives were satisfied. | All quality assurance parameters were met for these analyses. | All quality assurance parameters were met for these analyses. | Total Organic Carbon was observed in the continuing calibration blanks All quality assurance parameters were met for these analyses. |
| Method Blanks | 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) - 15 out of 132 analyte recoveries were outside of QC limits. 13 out of 66 recoveries were outside of QC limits. All data quality objectives were satisfied. | Sample MW-CHA-RFI-7 was analyzed as the matrix spike/matrix spike duplicate. The duplicate analysis results did not meet acceptance criteria for iron. All quality assurance parameters were met for these analyses. | All quality assurance parameters were met for these analyses. | The percent recovery for the matrix spike duplicate sample (LAB ID: AS08979K) was outside quality acceptance limits. 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 | | 15050173 | | |
|--------------------|--|---|---|---|
| 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. | 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 Usability | Data is acceptable. | Data is acceptable. | Data is acceptable. | Data is acceptable. |