

# ORION

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### **3021 Orchard Park Road Site**

**BCP Site No. C915289  
3021-3041 Orchard Park Road  
Orchard Park, New York**

## **Periodic Review Report**

**(March 16, 2017 to December 31, 2018)**

Date: December 2018

Prepared for: 3021-3041 Orchard Park Road, LLC

Job Number: 0010-001-001

Service to  
Our Community,  
Our Professions, &  
Our Clients

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# **PERIODIC REVIEW REPORT**

**(March 16, 2017 to December 31, 2018)**

**3021 ORCHARD PARK ROAD SITE  
BCP SITE NO. C915289  
ORCHARD PARK, NEW YORK**

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December 2018

0010-001-001

Prepared for:

**3021-3041 Orchard Park Road, LLC**

Prepared By:



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**PERIODIC REVIEW REPORT  
3021 Orchard Park Road Site  
BCP Site No. C915289**

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# PERIODIC REVIEW REPORT

## 3021 Orchard Park Road Site

### BCP Site No. C915289

#### List of Acronyms

<b>ACMs</b>	<i>Asbestos Containing Materials</i>	<b>HASP</b>	<i>Health and Safety Plan</i>
<b>AIRS</b>	<i>Aromatic Information Retrieval System</i>	<b>HREC</b>	<i>Historical Recognized Environmental Condition</i>
<b>ASD</b>	<i>Active Subslab Depressurization</i>	<b>HSWDS</b>	<i>Hazardous Waste Disposal Site</i>
<b>AST</b>	<i>Aboveground Storage Tank</i>	<b>HVAC</b>	<i>Heating Ventilation and Air Conditioning</i>
<b>ASTM</b>	<i>American Society for Testing and Materials</i>	<b>IC</b>	<i>Institutional Control</i>
<b>BCA</b>	<i>Brownfield Cleanup Agreement</i>	<b>ICIS</b>	<i>Integrated Compliance Information System</i>
<b>BCP</b>	<i>Brownfield Cleanup Program</i>	<b>IRM</b>	<i>Interim Remedial Measure</i>
<b>BTEX</b>	<i>Benzene, toluene, ethylbenzene, and xylenes</i>	<b>LBP</b>	<i>Lead-Based Paint</i>
<b>C/D</b>	<i>Construction and Demolition</i>	<b>LNAPL</b>	<i>Light Non-Aqueous Phase Liquid</i>
<b>CAMP</b>	<i>Community Air Monitoring Plan</i>	<b>LQG</b>	<i>Large Quantity Generator</i>
<b>CBS</b>	<i>Chemical Bulk Storage</i>	<b>LTANK</b>	<i>Leaking Tank</i>
<b>CERCLA</b>	<i>Comprehensive Environmental Response, Compensation, and Liability Act</i>	<b>LUST</b>	<i>Leaking Underground Storage Tank</i>
<b>CERCLIS</b>	<i>Comprehensive Environmental Response, Compensation, and Liability Information System</i>	<b>MOSF</b>	<i>Major Oil Storage Facility</i>
<b>CESQG</b>	<i>Conditionally Exempt Small Quantity Generator</i>	<b>MSDS</b>	<i>Material Safety Data Sheets</i>
<b>CFR</b>	<i>Code of Federal regulation</i>	<b>MTBE</b>	<i>Methyl Tertiary Butyl Ether</i>
<b>CO2</b>	<i>Carbon Dioxide</i>	<b>NA</b>	<i>Not Available/Applicable</i>
<b>COC</b>	<i>Certificate of Completion</i>	<b>NPDES</b>	<i>National Pollutant Discharge Elimination System</i>
<b>CORRACTS</b>	<i>Corrective Action</i>	<b>NPL</b>	<i>National Priorities List</i>
<b>CP</b>	<i>Commissioner Policy</i>	<b>NRCS</b>	<i>Natural Resource Conservation Service</i>
<b>CPG</b>	<i>Certified Professional Geologist</i>	<b>NYCRR</b>	<i>New York Codes, Rules, and Regulations</i>
<b>CREC</b>	<i>Controlled Recognized Environmental Condition</i>	<b>NYSDEC</b>	<i>New York State Department of Environmental Conservation</i>
<b>cVOC</b>	<i>Chlorinated Volatile Organic Compound</i>	<b>NYSDOH</b>	<i>New York State Department of Health</i>
<b>DER</b>	<i>Division of Environmental Remediation</i>	<b>NYSDDL</b>	<i>New York State Department of Labor</i>
<b>DNAPL</b>	<i>Dense Non-Aqueous Phase Liquid</i>	<b>O&amp;M</b>	<i>Operations and Maintenance</i>
<b>EC</b>	<i>Engineering Control</i>	<b>OM&amp;M</b>	<i>Operation, Maintenance, and Monitoring</i>
<b>ECHO</b>	<i>Enforcement and Compliance History Information</i>	<b>OPRA</b>	<i>Open Public Records Act</i>
<b>ECL</b>	<i>Environmental Conservation Law</i>	<b>ORION</b>	<i>Orion Environmental Solutions, LLC</i>
<b>EDR</b>	<i>Environmental Data Resources, Inc.</i>	<b>OSHA</b>	<i>Occupational Safety and Health Administration</i>
<b>ELAP</b>	<i>Environmental Laboratory Approval Program</i>	<b>PAH</b>	<i>Polycyclic aromatic hydrocarbons</i>
<b>ERNS</b>	<i>Emergency Response &amp; Notification System</i>	<b>PBS</b>	<i>Petroleum Bulk Storage</i>
<b>ESA</b>	<i>Environmental Site Assessment</i>	<b>PCBs</b>	<i>Polychlorinated Biphenyls</i>
<b>ETPH</b>	<i>Extractable Total Petroleum Hydrocarbons</i>	<b>pCi/L</b>	<i>picocuries per Liter</i>
<b>FBGS</b>	<i>Feet below ground surface</i>	<b>PE</b>	<i>Professional Engineer</i>
<b>FIFRA</b>	<i>Federal Insecticide, Fungicide, &amp; Rodenticide Act</i>	<b>PERC</b>	<i>Tetrachloroethylene (perchloroethylene)</i>
<b>FINDS</b>	<i>Facility Index System/Facility Registry System</i>	<b>PG</b>	<i>Professional Geologist</i>
<b>FOIA</b>	<i>Freedom of Information Act</i>	<b>PID</b>	<i>photoionization detector</i>
<b>FOIL</b>	<i>Freedom of Information Letter</i>	<b>PPB</b>	<i>parts per billion</i>
<b>FOP</b>	<i>Field Operating Procedure</i>	<b>PPM</b>	<i>parts per million</i>
<b>FTTS</b>	<i>FIFRA/TSCA Tracking System</i>	<b>PRP</b>	<i>Potentially Responsible Party</i>
<b>FWS</b>	<i>Fish and Wildlife Service</i>	<b>PRR</b>	<i>Periodic Review Report</i>
<b>GIS</b>	<i>Geographic Information Systems</i>	<b>PVEC</b>	<i>Potential Vapor Encroachment Condition</i>

**PERIODIC REVIEW REPORT**  
**3021 Orchard Park Road Site**  
**BCP Site No. C915289**

**List of Acronyms**

<b>QA/QC</b>	<i>Quality Assurance/Quality Control</i>	<b>SSD</b>	<i>Sub-slab Depressurization</i>
<b>QAPP</b>	<i>Quality Assurance Project Plan</i>	<b>SVE</b>	<i>Soil Vapor Extraction</i>
<b>RAO</b>	<i>Remedial Action Objective</i>	<b>SVI</b>	<i>Soil Vapor Intrusion</i>
<b>RAWP</b>	<i>Remedial Action Work Plan</i>	<b>SVOC</b>	<i>Semi volatile Organic Compound</i>
<b>RCRA</b>	<i>Resource Conservation and Recovery Act</i>	<b>SWF/LF</b>	<i>Solid Waste Facility/Landfill</i>
<b>RSO</b>	<i>Remedial System Optimization</i>	<b>SWRCY</b>	<i>Registered Recycling Facility List</i>
<b>SAC</b>	<i>State Assistance Contract</i>	<b>TAL</b>	<i>Target Analyte List</i>
<b>SACM</b>	<i>Suspect Asbestos Containing Material</i>	<b>TCE</b>	<i>Trichloroethylene</i>
<b>SCG</b>	<i>Standards, Criteria, and Guidelines</i>	<b>TCL</b>	<i>Target Compound List</i>
<b>SCO</b>	<i>Soil Cleanup Objective</i>	<b>TCLP</b>	<i>Toxicity Characteristic Leachate Procedure</i>
<b>SEMS</b>	<i>Superfund Enterprise Management System (FKA CERCLIS)</i>	<b>TRIS</b>	<i>Toxic Chemical Release Inventory System</i>
<b>SFMP</b>	<i>Soil Fill Management Plan</i>	<b>TSCA</b>	<i>Toxic Substance Control Act</i>
<b>SHPO</b>	<i>State Historic Preservation Office/Officer</i>	<b>TSDF</b>	<i>Treatment, Storage and Disposal Facility</i>
<b>SHWS</b>	<i>State Hazardous Waste Site</i>	<b>USDA</b>	<i>United States Department of Agriculture</i>
<b>SMP</b>	<i>Site Management Plan</i>	<b>USEPA</b>	<i>United States Environmental Protection Agency</i>
<b>SOP</b>	<i>Standard Operating Procedure</i>	<b>USGS</b>	<i>United States Geological Survey</i>
<b>SOW</b>	<i>Statement of Work</i>	<b>UST</b>	<i>Underground Storage Tank</i>
<b>SPCC</b>	<i>Spill Prevention Control and Countermeasure</i>	<b>VCP</b>	<i>Voluntary Cleanup Program</i>
<b>SPDES</b>	<i>State Pollution Discharge Elimination System</i>	<b>VEC</b>	<i>Vapor Encroachment Condition</i>
<b>SQG</b>	<i>Small Quantity Generator</i>	<b>VOC</b>	<i>Volatile Organic Compound</i>

## 1.0 INTRODUCTION

Orion Environmental Solutions, LLC (Orion) has prepared this Periodic Review Report (PRR) to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C915289, located at 3021-3041 Orchard Park Road, in the Town of Orchard Park, Erie County, New York (see Figure 1).

This PRR has been prepared in accordance with the NYSDEC DER-10 *Technical Guidance for Site Investigation and Remediation* (May 2010; Ref. 1) and the NYSDEC's Institutional and Engineering Controls (IC/EC) Certification Form has been prepared for the Site. This PRR and the associated IC/EC Form (see Appendix A) have been completed for the post-remedial period from March 16, 2017 to December 31, 2018.

### 1.1 Site Background

3021-3041 Orchard Park Road, LLC and CCS Oncology, P.C. entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in October 2014, to investigate and remediate an approximate 4.19-acre portion of a larger 5.06-acre parcel located in the Town of Orchard Park, County of Erie, New York. BCP site activities were performed in accordance with Brownfield Cleanup Agreement (BCA) Index #C915289-10-14, Site #C915289, which was executed on October 30, 2014. The BCP property, which is inclusive of the asphalted parking/driveway areas and on-site building and excludes the vegetated (grassed) areas along the outer perimeter of the Site, was remediated to restricted residential use.

On April 2, 2018, CCS Oncology, P.C. filed for Chapter 11 reorganizational bankruptcy, subsequently closing on April 27, 2018. 3021-3041 Orchard Park Road, LLC continues to maintain the Site in accordance with the BCA. Currently, the Site is being used as a consolidated multi-disciplinary medical facility, including: breast surgeons, gynecologic surgeons, vascular surgeons, primary physicians, diagnostic imaging, and diagnostic information services.

The Site is located in the County of Erie, New York and is identified as Section 152.12 Block 02 and Lot 1.1 on the Orchard Park Tax Map #152.12 per Erie County Tax Map records. The BCP Site is bounded by Michael Road to the north, commercial property to the south (Rite Aid Pharmacy), commercial property (Walgreens

Pharmacy) to the east, and Orchard Park Road to the west (see Figures 1 and 2). Historically, the Site was improved as a commercial multi-unit shopping plaza and associated parking. The existing building formerly contained seven units identified by address as follows:

- 3025 – Former Tops Grocery Store and Antique Mall
- 3027 – Existing Family Dollar
- 3031 – Former CVS Pharmacy
- 3035 – Former Hair Salon and Dry Cleaner
- 3037 – Former Paint Shop
- 3039 – Former Dry Cleaner/Insty-Prints Printing Center
- 3041 – Former Credit Union

## 1.2 Remedial History

The 3021 Orchard Park Road Site is located in a moderately developed commercial area of Orchard Park, New York. The Site is improved with a single-story, multi-unit commercial building and large parking lot. According to the Phase I Environmental Site Assessment (ESA) (Ref. 2), the commercial plaza historically housed a dry-cleaning tenant in the 3035 and 3039 Orchard Park Road tenant units between 1979 and 2008.

Previous investigations completed on the Site included a Limited and Focused Subsurface Soil and Groundwater Investigation (Ref. 3) and a Supplemental Phase II Environmental Investigation (Ref. 4). The LCS investigation was based on information reported in the Phase I ESA of a recognized environmental condition (REC) that the subject property was historically used as a dry cleaner. The LCS investigation included the completion of a subsurface soil and groundwater investigation in accessible exterior areas of the Site to assess potential environmental impact related to the past operation of a dry-cleaning facility. The investigation identified photoionization detector (PID) measurements above background concentrations (e.g., 0.0 parts per million, ppm) at 53 of the 63 soil samples collected, solvent-type odors, and chlorinated volatile organic compounds (cVOCs), commonly associated with dry cleaning facilities, in two temporary monitoring wells in exceedance of NYSDEC Class

"GA" Ambient Water Quality Standards (AWQSs). No analytes were detected in soil at concentrations in exceedance of NYSDEC Part 375 Soil Cleanup Objectives.

Based on the findings of the LCS report, further investigation was recommended to delineate the extent of cVOCs found at the site. Turnkey's investigation included six interior soil borings, three soil vapor samples (subslab, indoor, and outdoor), and five exterior borings/temporary monitoring wells. Results from this investigation generally indicated the following conditions: tetrachloroethene (PCE) was detected at a concentration above the Part 375 Protection of Groundwater Soil Cleanup Objective (SCO) at two boring locations; PCE was categorized as "IR" (identify sources and reduce exposures) in soil vapor; and, benzene, cis-1,2-dichloroethene (cis-1,2-DCE), PCE, trichloroethene (TCE), and vinyl chloride (VC) were detected above the AWQSs in one temporary well, while cis-1,2-DCE and VC were detected at concentrations above the AWQSs at another temporary well.

A BCP Remedial Investigation (RI) was performed from November 2014 to January 2015 to characterize the nature and extent of contamination at the site. The results of the RI are described in detail in the Remedial Investigation/Interim Remedial Measures/Alternatives Analysis (RI/IRM/AA) Report (Ref. 5). In general, the RI determined that cVOCs were the contaminants of concern (COCs) in Site soil and/or groundwater.

The RI/IRM/AA Report recommended remediation of potentially cVOC-impacted soil/fill from the vault area, Porte Cochere footers, and storm sewer spoils, as well as removal of sediment from and replacement of an on-site catch basin followed by direct injection of groundwater treatment amendments in the vault area and maintenance and repair, as necessary, of the existing asphalt covered driveways/parking lots and concrete pads as the final remedial measure under a Track 4 Cleanup approach. Additional requirements included development and adherence to a Site Management Plan (SMP) (Ref. 6) and filing of an Environmental Easement to restrict use of the property to restricted residential, commercial, and industrial applications and to place other limitations on post-redevelopment activities.

### **1.3 Compliance**

At the time of the Site inspection, the Site was fully compliant with the NYSDEC-approved SMP dated September 2014.

## 2.0 SITE REMEDIATION OVERVIEW

An overview of the remediation and redevelopment activities undertaken on the Site covered by this PRR are presented below. The remediated property is subject to a comprehensive, site-wide SMP which identifies requirements for monitoring and maintenance of engineering and institutional controls and procedures for post-remedial excavation and related activities.

The 3021 Orchard Park Road Site was redeveloped under the BCP as a consolidated multi-disciplinary medical facility. The following IRM activities were performed to remediate the Site:

- Excavation and off-site disposal of 1,246.29 tons of potentially cVOC-impacted soil/fill from the vault area of the Site.
- Excavation and off-site disposal of 420.60 tons of non-impacted soil/fill generated from building interior utility trenching, Porte Cochere footer excavations, new roof storm drain installation, and excavation of nine topsoil/grass covered islands throughout the parking lot area.
- Removal of sediment from, followed by decontamination and disposal of, an on- site catch basin. A new concrete catch basin was installed.
- Targeted in-situ groundwater treatment in the vault area of the Site included 23 injection points from approximately 4 to 14 feet below ground surface.
- Non-PCB containing (less than 3 ppm) transformer removal and disposal.
- Asbestos abatement of floor tile, floor mastic, and carpet mastic.

The remedial program was successful in achieving the remedial objectives for the Site. An Environmental Easement restricting end use of the Site and enforcing adherence to the SMP was filed and approved in November 2015. The Final Engineering Report (FER) (Ref. 7) was approved in December 2015. Concurrently, a Certificate of Completion (COC) was issued for the Site by the NYSDEC in December 2015.

### **3.0 REMEDY PERFORMANCE**

A post-remedial site inspection involving a walk-over of the Site covered by this PRR was performed on November 19, 2018 to visually observe and document the use of the Site for restricted residential, commercial, and/or industrial use, confirm absence of site groundwater use, inspect the cover system integrity, and verify conformance with other requirements under the SMP. The site inspection completed during the current reporting period indicates that the controls are in-place and functioning as intended in accordance with the SMP.

The completed IC/EC Certification form and site photographs are included in Appendices A and B, respectively.

## 4.0 SITE MANAGEMENT PLAN

A site-wide SMP was prepared for the Site and approved by the Department in November 2015. Key components of the SMP are described below.

### 4.1 Institutional & Engineering Control (IC/EC) Plan

Since remaining contaminated soil and groundwater exists beneath the site, Institutional Controls and Engineering Controls (IC/ECs) are required to protect human health and the environment. The Engineering and Institutional Control Plan describes the procedures for the implementation and management of all IC/ECs at the Site. At the time of the site inspection, the Site covered by this PRR was fully compliant with all engineering and institutional control requirements.

#### 4.1.1 Institutional Controls (ICs)

The site has a series of Institutional Controls in the form of site restrictions. Adherence to these Institutional Controls is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

- The property may only be used for restricted-residential, commercial, and industrial use provided that the long-term Engineering and Institutional Controls included in the SMP are employed.
- The property may not be used for a higher level of use, such as unrestricted use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;
- Vegetable gardens and farming on the property are prohibited;
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be



submitted annually, or an alternate period of time that NYSDEC by an expert that the NYSDEC finds acceptable.

#### **4.1.2 Engineering Controls (ECs)**

Engineering controls at the Site include:

- Cover System – Exposure to remaining contamination in soil/fill at the site is prevented by a final cover system placed over the site. The cover system is comprised of a minimum of 24 inches of clean soil for interior green space islands, asphalt pavement, and concrete sidewalks and building slabs/foundations. The cover system must be maintained in compliance with the SMP.
- Vapor Barrier - A polyethylene vapor barrier must be installed (if new construction) and remain in-place beneath existing building concrete floor slabs (i.e., vault room).

#### **4.2 Post-Remedial Groundwater Monitoring**

As a requirement of the SMP, post-remedial groundwater sampling of monitoring wells MW-4A and MW-6 is to be performed biannually (twice per year) for the first two years then annually thereafter (until such time as the NYSDEC agrees that monitoring can be terminated) to assess the performance of the IRM remedy. Modification to the frequency or sampling requirements will require approval from the NYSDEC. In accordance with the SMP, groundwater samples from each well are to be analyzed for Target Compound List (TCL) VOCs (Method 8260) and field parameters (i.e., pH, conductivity, temperature, turbidity, dissolved oxygen, and oxidation-reduction potential). Groundwater from well MW-6 are also to be analyzed for attenuation parameters to evaluate effectiveness of the in-situ treatment and include dissolved iron, dissolved manganese, sulfate, nitrate-nitrite, and dissolved gases methane, ethane, and ethene.

The following semi-annual, post-remedial, and SMP-required groundwater monitoring events have been performed at the Site.

- June 6, 2017
- November 17, 2017
- July 6, 2018
- November 19, 2018

In accordance with the SMP and during each sampling event of the current monitoring period, wells MW- 4A and MW-6 were sampled with SpeedBag HydraSleeves. A summary of pre- and post-remedial groundwater monitoring data is presented in Table 1. Appendix C includes the field forms (C1), concentration vs. time plots (C2), and analytical data packages (C3 and C4) for both 2018 sampling events.

Similar to 2017 and as shown in Table 1, the 2018 groundwater monitoring results indicate nearly 100% removal of cVOC (trichloroethene and tetrachloroethene) and daughter compound-impacts (i.e., cis-1,2-dichloroethene, 1,1-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride) compared to pre-IRM concentrations. Concentration versus time plots presented in Appendix C2 clearly demonstrate this near-complete removal and that cVOC concentrations are consistently well below their respective AWQSS. This dramatic improvement to groundwater quality is expected to be permanent.

Should it be required, the next annual groundwater event is tentatively scheduled for July 2019.

#### **4.3 Intrusive Activities**

An Excavation Work Plan (EWP) was included in the NYSDEC-approved SMP for the Site. The EWP provides guidelines for the management of soil and fill material during any future intrusive activities. Any intrusive work that will penetrate the cover or cap, or encounter or disturb the remaining contamination at the Site, including any modifications or repairs to the existing cover system and/or building foundation, must be performed in compliance with the EWP.

During the current reporting period (March 16, 2017 to December 31, 2018), no site improvements were conducted.

#### **4.4 Annual Inspection & Certification Program**

The Annual Inspection and Certification Program outlines requirements for certifying and attesting that the institutional controls and engineering controls employed on the Site are unchanged from the original design and/or previous certification. The Annual Certification includes a Site Inspection and completion of the NYSDEC-provided IC/EC Certification Form. The Site inspection is intended to verify that the IC/ECs:

- Are in place and effective.
- Are performing as designed.
- That nothing has occurred that would impair the ability of the controls to protect the public health and environment.
- That nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for such controls.
- Access is available to the Site to evaluate continued maintenance of such controls.

Inspection of the Site was conducted by Bryan C. Hann, P.G. of Orion on November 19, 2018. Mr. Hann is a licensed and registered NY State Professional Geologist and meets the requirements of a Qualified Environmental Professional (QEP) per 6NYCRR Part 375.12. At the time of the inspection, the Site was being used as a medical and diagnostics facility (Vascular Associates of WNY and Quest Diagnostics) and Family Dollar, with asphalt surface parking, concrete sidewalks, and interior landscaped island areas. No observable indication of intrusive activities was noted during the Site inspection. The existing medical and shopping facilities utilize the local municipal water supply, and no observable use of groundwater was noted during the Site inspection.

The completed Site Management Periodic Review Report Notice – Institutional and Engineering Controls Certification Form is included in Appendix A. A photographic log of the November 2018 Site inspection is included in Appendix B.

#### **4.5 Operation, Monitoring, & Maintenance Plan**

The remedy for the Site does not rely on any mechanical systems such as sub-slab depressurization or soil vapor extraction, to protect public health and the environment. Therefore, an Operation and Maintenance Plan is not required.

## 5.0 CONCLUSIONS & RECOMMENDATIONS

Conclusions for this reporting period and recommendations for the next reporting period are as follows:

- At the time of the Site inspection, the Site was in compliance with the SMP. No intrusive activities were performed during the reporting period.
- Groundwater monitoring results indicate nearly 100% removal of previously identified cVOC impacts to groundwater.
- It is recommended that groundwater monitoring be discontinued and both monitoring wells MW-4A and MW-6 be decommissioned. Groundwater analytical results of the SMP-required four semi-annual, post-remedial monitoring events clearly demonstrate the dramatic improvement to groundwater quality (nearly 100%) is permanent.
- Annual Site inspections to verify the IC/ECs employed at the Site are unchanged from the original design and/or previous certifications should continue.

## **6.0 DECLARATION/LIMITATION**

Orion Environmental Solutions, LLC personnel conducted the annual site inspection for BCP Site No. C915289, located in Orchard Park, New York, according to generally accepted practices. This report has been prepared for the exclusive use of and has complied with the scope of work provided to 3021-3041 Orchard Park Road, LLC. The contents of this report are limited to information available at the time of the Site inspection. The findings herein may be relied upon only at the discretion of 3021-3041 Orchard Park Road, LLC. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission from Orion Environmental Solutions, LLC.

## 7.0 REFERENCES

1. New York State Department of Environmental Conservation. DER-10; *Technical Guidance for Site Investigation and Remediation*. May 2010.
2. LCS Inc. ASTM E1527-05 All Appropriate Inquiries Phase I Environmental Site Assessment Report for the Property Identified as: Commercial Plaza, 3021-3041 Orchard Park Road, Orchard Park, New York. October 10, 2013.
3. LCS Inc. Limited and Focused Subsurface Soil and Groundwater Investigation Report for the Property Identified as: Commercial Plaza, 3021-3041 Orchard Park Road, Orchard Park, New York. May 14, 2014.
4. TurnKey Environmental Restoration, LLC. Supplemental Phase II Environmental Investigation Report, 3021-3041 Orchard Park Road, Orchard Park, New York. June 2014.
5. Benchmark Environmental Engineering & Science, PLLC and TurnKey Environmental Restoration, LLC. *Remedial Investigation/Alternatives Analysis Report, 3021 Orchard Park Road Site, Orchard Park, New York*. April 2015.
6. Benchmark Environmental Engineering & Science, PLLC and TurnKey Environmental Restoration, LLC. *Site Management Plan, 3021 Orchard Park Road Site, Orchard Park, NY (NYSDEC BCP Site #C915289)*. November 2015.
7. Benchmark Environmental Engineering & Science, PLLC and TurnKey Environmental Restoration, LLC. *Final Engineering Report, 3021 Orchard Park Road Site, Orchard Park, NY (NYSDEC BCP Site #C915268)*. November 2014.

# **TABLES**

TABLE 1

PRE- & POST-INJECTION GROUNDWATER ANALYTICAL SUMMARY

Periodic Review Report  
3021 Orchard Park Road Site (C915289)  
Orchard Park, New York

Parameter <sup>1</sup>	CasNum	NY-AWQS	Units	Monitoring Location, Sample Date, Lab Data Package No.												
				MW-4A						MW-6						
				Pre-Injection		Post-Injection				Pre-Injection	Post-Injection					
				01/12/2015 L1500729 Qual	03/25/2015 L1506003 Qual	06/06/2017 L1718736 Qual	11/17/2017 L1742548 Qual	07/06/2018 L1825714 Qual	11/19/2018 L1847434 Qual	4/6/2015 L1506785-01 Qual	10/01/2015 L1524744 Qual	11/02/2015 L1528297 Qual	06/06/2017 L1718736 Qual	11/17/2017 L1742548 Qual	07/06/2018 L1825714 Qual	11/19/2018 L1847434 Qual
Field Measurements																
Field pH	NA	6.5 - 8.5	S.U	6.89	6.76	7.20	-	6.22	6.12	6.80	6.56	6.01	6.28	-	6.31	6.30
Temperature	NA	-	DEG C	10.3	10.4	14.5	-	21.2	14.5	18.2	16.9	20.7	17.7	-	23.7	13.0
Specific Conductance	NA	-	umhos/cm	1586	1463	5015	-	5902	6700	2220	3539	3335	4567	-	5227	5460
Turbidity	NA	-	NTU	610	122	> 1000	-	626	69.7	33.5	> 1000	165	23.7	-	11.5	22.1
Dissolved Oxygen	NA	-	mg/L	1.59	1.7	2.11	-	3.63	2.37	2.17	1.3	2.26	6.84	-	NA	4.53
Redox Potential	NA	-	mV	+23	+9	-18	-	+52	+87	+50	-68	-112	-114	-	-39	+10
Volatile Organics by GC/MS - Westborough Lab																
Acetone	67-64-1	0.05	mg/L	0.0026 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	2.6 J	0.3 J	0.0077	0.045	0.052	0.018	0.018
Benzene	71-43-2	0.001	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00016 U	0.016 U	0.00018 J	0.0027	0.0012	0.0003 J	0.00065
Bromomethane	74-83-9	0.005	mg/L	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0007 U	0.42	0.0007 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
2-Butanone	78-93-3	0.05	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0005 U	0.19 J	0.011	0.019	0.012	0.0021 J	0.0023 J
Carbon Disulfide	75-15-0	-	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.5 U	0.005 U	0.0038 J	0.005 U	0.005 U	0.005 U
Choroethane	75-00-3	0.005	mg/L	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.25 U	0.0025 U	0.0038	0.0011 J	0.0025 U	0.0025 U
Cyclohexane	110-82-7	-	mg/L	0.01 U	0.01 U	0.01 U	0.00044 J	0.01 U	0.01 U	0.01 U	1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Hexanone	591-78-6	0.05	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.5 U	0.005 U	0.0046 J	0.005 U	0.0042 J	0.005 U
Methylene Chloride	75-09-2	0.005	mg/L	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.07 U	0.0016 J	0.0025 U	0.0025 U	0.0025 U	0.0025 U
Methyl Cyclohexane	108-87-2	-	mg/L	0.01 U	0.01 U	0.01 U	0.00058 J	0.01 U	0.01 U	0.01 U	1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Toluene	108-88-3	0.005	mg/L	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0007 U	0.07 U	0.00072 J	0.0025 U	0.0025 U	0.0025 U	0.0025 U
Xylene, Total	1330-20-7	0.005	mg/L	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0007 U	0.07 U	0.00199 J	0.0024 J	0.0030 J	0.00089 J	0.00174 J
cis-1,2-Dichloroethene	156-59-2	0.005	mg/L	0.022	0.024	0.0025 U	0.0044	0.0025 U	0.0025 U	5.8	0.29	0.18	0.0011 J	0.00076 J	0.0025 U	0.0008 J
1,1-Dichloroethene	75-35-4	0.005	mg/L	0.0025 U	0.0025 U	0.0025 U	0.0005 U	0.0005 U	0.0005 U	0.00014 U	0.014 U	0.00043 J	0.0025 U	0.0005 U	0.0005 U	0.0005 U
Tetrachloroethene	127-18-4	0.005	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.97	0.019 J	0.0021	0.00021 J	0.0005 U	0.0005 U	0.0002 J
trans-1,2-Dichloroethene	156-60-5	0.005	mg/L	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0007 U	0.07 U	0.0074	0.0025 U	0.0025 U	0.0025 U	0.0025 U
Trichloroethene	79-01-6	0.005	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	1.5	0.044 J	0.013	0.00069	0.00048 J	0.00021 J	0.0005 U
Vinyl chloride	75-01-4	0.002	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.047 J	0.051	0.001 U	0.001 U	0.001 U	0.001 U
Total cVOCs	NA	NA	mg/L	0.022	0.024	0.000	0.0044	0.00	0.00	8.27	0.40	0.25393	0.002	0.00124	0.00021	0.00100
General Chemistry - Westborough Lab																
Chemical Oxygen Demand (COD)	10004	--	mg/L	-	-	-	-	-	-	-	18,000	960	-	-	-	-
Total Organic Carbon (TOC)	7440-44-0	--	mg/L	-	-	-	-	-	-	-	770	260	-	-	-	-
Anions by Ion Chromatography - Westborough Lab																
Nitrogen, Nitrate	14797-55-8	10	mg/L	-	-	-	-	-	-	-	0.015 J	0.019 U	0.064 J	0.1 U	0.061 J	0.1 U
Sulfate	14808-79-8	250	mg/L	-	-	-	-	-	-	-	4.52	0.448 J	10 U	1 U	5 U	1 U
Dissolved Gases by GC - Mansfield Lab																
Carbon Dioxide	124-38-9	--	mg/L	-	-	-	-	-	-	-	213	202	-	-	-	-
Ethane	74-84-0	--	mg/L	-	-	-	-	-	-	-	0.011	0.00876	0.00226	0.00116	0.0012	0.000614
Ethene	74-85-1	--	mg/L	-	-	-	-	-	-	-	0.00928	0.0362	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Methane	74-82-8	--	mg/L	-	-	-	-	-	-	-	0.2	0.178	20.2 D	13.4 D	13.9 D	10.8 D



TABLE 1  
PRE- & POST-INJECTION GROUNDWATER ANALYTICAL SUMMARY

Periodic Review Report  
3021 Orchard Park Road Site (C915289)  
Orchard Park, New York

Parameter <sup>1</sup>	CasNum	NY-AWQS	Units	Monitoring Location, Sample Date, Lab Data Package No.												
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				Pre-Injection			Post-Injection			Pre-Injection		Post-Injection				
				01/12/2015 L1500729 Qual	03/25/2015 L1506003 Qual	06/06/2017 L1718736 Qual	11/17/2017 L1742548 Qual	07/06/2018 L1825714 Qual	11/19/2018 L1847434 Qual	4/6/2015 L1506785-01 Qual	10/01/2015 L1524744 Qual	11/02/2015 L1528297 Qual	06/06/2017 L1718736 Qual	11/17/2017 L1742548 Qual	07/06/2018 L1825714 Qual	11/19/2018 L1847434 Qual
Total Metals - Westborough Lab																
Aluminum, Total	7429-90-5	--	mg/L	7.84	-	-	-	-	-	0.44	-	-	-	-	-	-
Antimony, Total	7440-36-0	0.003	mg/L	0.00074 U	-	-	-	-	-	0.0103 J	-	-	-	-	-	-
Arsenic, Total	7440-38-2	0.025	mg/L	0.00344	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Barium, Total	7440-39-3	1	mg/L	0.1501	-	-	-	-	-	0.055	-	-	-	-	-	-
Cadmium, Total	7440-43-9	0.005	mg/L	0.00015 J	-	-	-	-	-	0.005 U	-	-	-	-	-	-
Calcium, Total	7440-70-2	--	mg/L	291	-	-	-	-	-	240	-	-	-	-	-	-
Chromium, Total	7440-47-3	0.05	mg/L	0.01221	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Cobalt, Total	7440-48-4	--	mg/L	0.00678	-	-	-	-	-	0.02 U	-	-	-	-	-	-
Copper, Total	7440-50-8	0.2	mg/L	0.01189 U	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Iron, Total	7439-89-6	0.3	mg/L	14.2	-	-	-	-	-	1.3	23	23.7	-	-	-	-
Lead, Total	7439-92-1	0.025	mg/L	0.00488 U	-	-	-	-	-	0.01 U	-	-	-	-	-	-
Magnesium, Total	7439-95-4	35	mg/L	105	-	-	-	-	-	73	-	-	-	-	-	-
Manganese, Total	7439-96-5	0.3	mg/L	0.3566	-	-	-	-	-	0.199	2	2.265	-	-	-	-
Nickel, Total	7440-02-0	0.1	mg/L	0.01989	-	-	-	-	-	0.0053 J	-	-	-	-	-	-
Potassium, Total	7440-09-7	--	mg/L	5.62	-	-	-	-	-	12	-	-	-	-	-	-
Sodium, Total	7440-23-5	20	mg/L	62.9	-	-	-	-	-	120	-	-	-	-	-	-
Vanadium, Total	7440-62-2	--	mg/L	0.01465	-	-	-	-	-	0.0012 J	-	-	-	-	-	-
Zinc, Total	7440-66-6	2	mg/L	0.04199	-	-	-	-	-	0.05 U	-	-	-	-	-	-
Dissolved Metals - Westborough Lab																
Iron, Dissolved	7439-89-6	0.3	mg/L	1.31	-	-	-	-	-	-	8.7	17	0.685	2.46	0.05	33.4
Manganese, Dissolved	7439-96-5	0.3	mg/L	0.1459	-	-	-	-	-	-	1.58	2.232	3.267	2.802	1.928	1.519

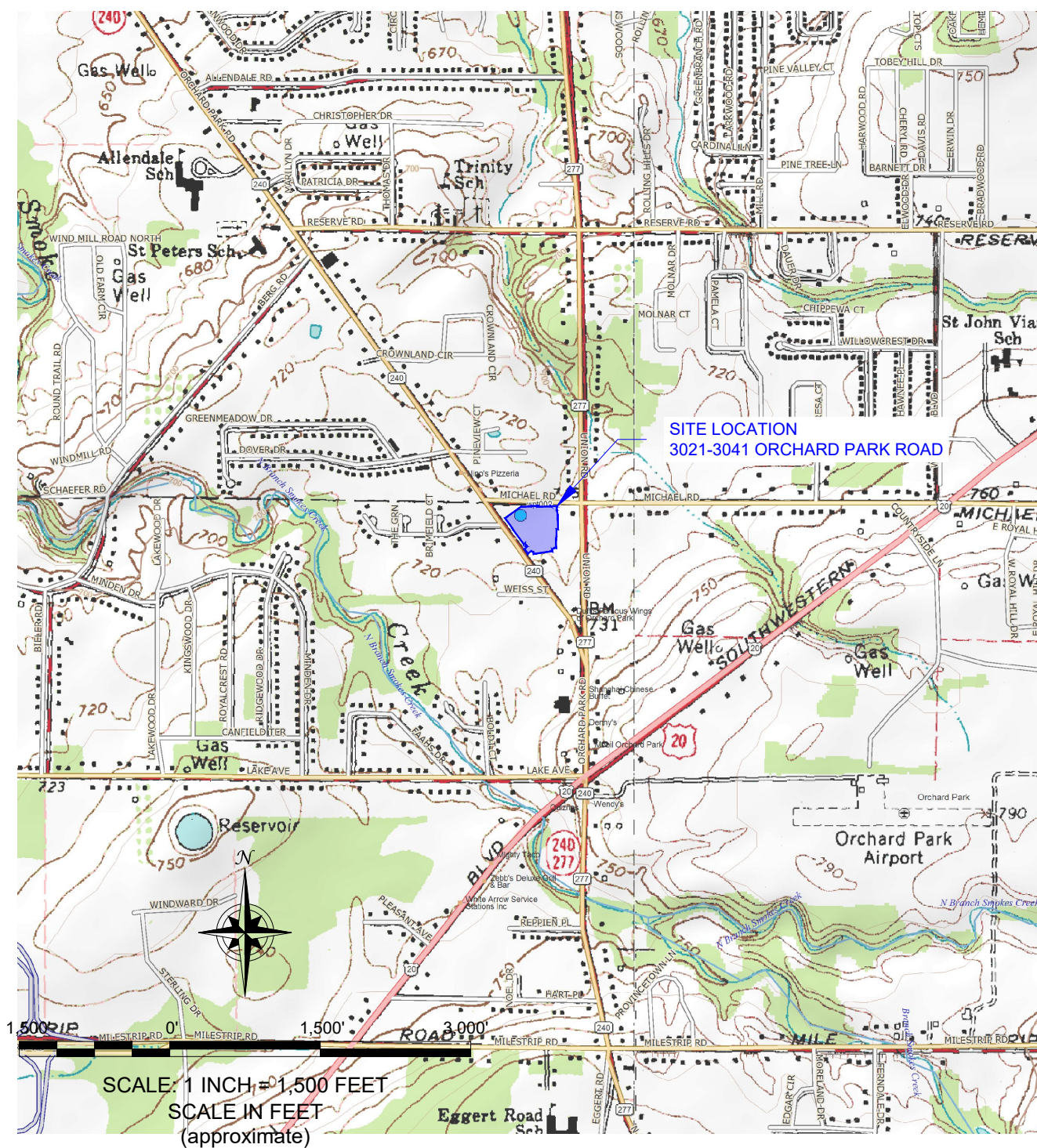
Notes:  
1. Only compounds detected with reporting limits that exceed the corresponding regulatory standard in at least one sample are included on the summary sheets.  
2. NYS Ambient Water Quality Class GA Groundwater Quality Standards/Guidance Values; NYSDEC June 1998 Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1

Qualifier Key:  
J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.  
U = The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.  
UJ = The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.

Color Code:  
 = chlorinated VOCs (cVOCs) are highlighted in BLUE  
 = concentration exceeds the NYSDEC Class GA AWQS/GV.

# FIGURES

**FIGURE 1**



4535 Southwestern Boulevard, Suite 210, Hamburg, NY 14075

PROJECT NO.: 0010-001-001

DATE: DECEMBER 2018

DRAFTED BY: BCH

## SITE LOCATION & VICINITY MAP

2018 PERIODIC REVIEW REPORT

3021 ORCHARD PARK ROAD SITE  
ORCHARD PARK, NEW YORK

PREPARED FOR

3021-3041 ORCHARD PARK ROAD, LLC

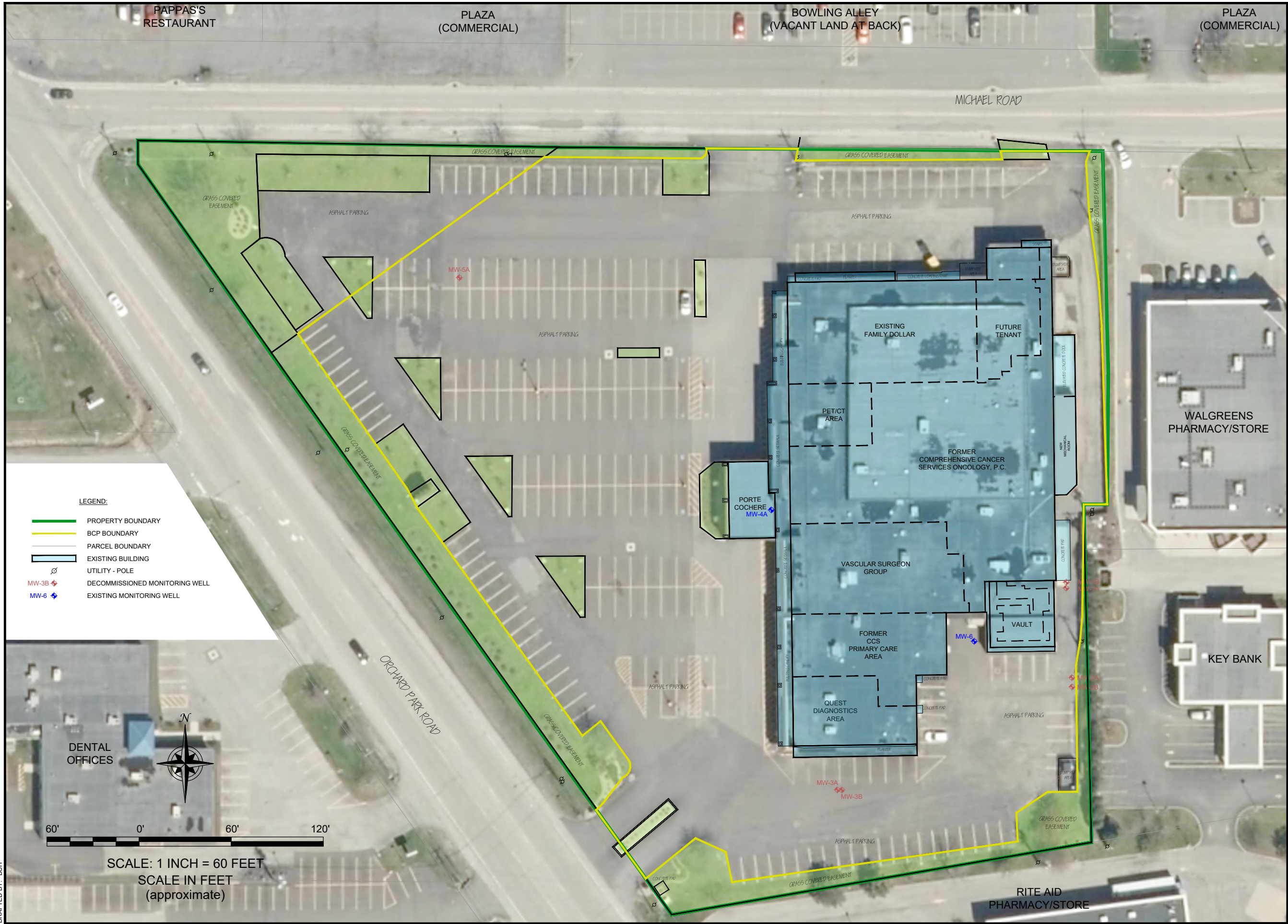
**DISCLAIMER:**

PROPERTY OF ORION ENVIRONMENTAL SOLUTIONS, LLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF ORION ENVIRONMENTAL SOLUTIONS, LLC.



C:\Users\CADD Station\Orion Environmental Solutions, LLC\Orion Network Files - Documents\00 - Projects\3021 OP Road\CAD\3021oproadbase map.dwg

DATE: DECEMBER 2018  
DRAFTED BY: BCH



4535 Southwestern Boulevard, Suite 210, Hamburg, NY 14075

JOB NO.: 0010-001-001

## SITE PLAN

2018 PERIODIC REVIEW REPORT  
3021 ORCHARD PARK ROAD SITE  
ORCHARD PARK, NEW YORK

PREPARED FOR  
3021-3041 ORCHARD PARK ROAD, LLC

FIGURE 2

DISCLAIMER: PROPERTY OF ORION ENVIRONMENTAL SOLUTIONS, LLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF ORION ENVIRONMENTAL SOLUTIONS, LLC.

# APPENDIX A

## INSTITUTIONAL & ENGINEERING CONTROLS CERTIFICATION FORM



Enclosure 2  
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
Site Management Periodic Review Report Notice  
Institutional and Engineering Controls Certification Form



Site Details

Box 1

Site No. C915289

Site Name 3021 Orchard Park Road Site

Site Address: 3021 Orchard Park Road Zip Code: 14127

City/Town: Orchard Park

County: Erie

Site Acreage: 4.2

Reporting Period: March 16, 2017 to ~~March 16~~, 2018

December 31,

YES NO

1. Is the information above correct?

☐

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?

☐

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?

☐

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?

☐

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?

☐

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?  
Restricted-Residential, Commercial, and Industrial

☐

7. Are all ICs/ECs in place and functioning as designed?

☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and  
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date



**Box 2A**

YES NO

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?

☐ ☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid?  
(The Qualitative Exposure Assessment must be certified every five years)

☒ ☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C915289

**Box 3****Description of Institutional Controls**Parcel

portion of 152.12-2-1.1

Owner

3021-3041 Orchard Park Road LLC

Institutional Control

Ground Water Use Restriction  
Soil Management Plan  
Landuse Restriction  
Monitoring Plan  
Site Management Plan  
IC/EC Plan

1. Prohibition of use of groundwater.
2. Land use restriction for Restricted Residential, Commercial or Industrial use.
3. Soil Management or Excavation Work Plan for any future intrusive work.
4. Soil vapor intrusion evaluation of any new buildings constructed on site.

**Box 4****Description of Engineering Controls**Parcel

portion of 152.12-2-1.1

Engineering Control

Cover System

1. Monitoring and maintenance of the cover system.
2. Bi-annual and annual groundwater monitoring.

**Periodic Review Report (PRR) Certification Statements**

1. I certify by checking "YES" below that:

(a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO



2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO



**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and  
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

**A Corrective Measures Work Plan must be submitted along with this form to address these issues.**

\_\_\_\_\_  
Signature of Owner, Remedial Party or Designated Representative

\_\_\_\_\_  
Date



IC CERTIFICATIONS  
SITE NO. C915289

Box 6

**SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE**

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Paul Hogan at 3021 Orchard Park Road, Orchard Park, NY 14127.  
print name print business address

am certifying as owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Paul J. Hogan  
Signature of Owner, Remedial Party, or Designated Representative  
Rendering Certification

12/31/18  
Date

IC/EC CERTIFICATIONS

Box 7

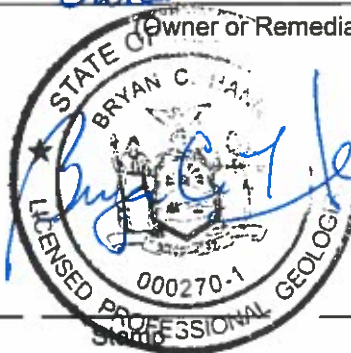
Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Bryan C. Hann at Orion Environmental Solutions, LLC  
print name 4535 Southwestern Blvd, Ste 210, Hamburg, NY 14075  
print business address

am certifying as a Professional ~~Engineer~~ for the Owner

Geologist



Bryan C. Hann  
Signature of Professional Engineer, for the Owner or  
Remedial Party, Rendering Certification

Stamp  
(Required for PE)

12/31/18  
Date

# APPENDIX B

## PHOTOGRAPHIC LOG

## SITE PHOTOGRAPHS

**Photo 1:**



**Photo 2:**



**Photo 3:**



**Photo 4:**



Photo 1: Asphalt and hardscape final cover along front of Site (looking NE).

Photo 2: Asphalt and hardscape final cover along south side of Site (looking E).

Photo 3: Asphalt and hardscape final cover along front of Site (looking N).

Photo 4: Asphalt final cover entrance along Orchard Park Road (looking S).

Periodic Review Report  
3021 Orchard Park Road Site  
Orchard Park, New York

Photo Date: November 19, 2018





## SITE PHOTOGRAPHS

**Photo 5:**



**Photo 6:**



**Photo 7:**



**Photo 8:**



- Photo 5: Asphalt final cover along front of Site, Orchard Park Road at left (looking NW).
- Photo 6: Asphalt and hardscape (at left) final cover in SE corner of Site (looking E).
- Photo 7: Asphalt and hardscape final cover along southern portion of Site (looking N).
- Photo 8: Asphalt and hardscape final cover with well MW-6 at center (looking N).

Periodic Review Report  
3021 Orchard Park Road Site  
Orchard Park, New York

Photo Date: November 19, 2018





## SITE PHOTOGRAPHS

**Photo 9:**



**Photo 10:**



**Photo 11:**



**Photo 12:**



- Photo 9: Asphalt and hardscape final cover along eastern portion of Site (looking N).
- Photo 10: Asphalt and hardscape final cover along eastern portion of Site (looking N).
- Photo 11: Asphalt and hardscape final cover along eastern portion of Site (looking N).
- Photo 12: Asphalt and hardscape final cover in northeastern corner of Site (looking N).

Periodic Review Report  
3021 Orchard Park Road Site  
Orchard Park, New York

Photo Date: November 19, 2018





## SITE PHOTOGRAPHS

**Photo 13:**



**Photo 14:**



**Photo 15:**



**Photo 16:**



- Photo 13: Asphalt and hardscape final cover along northern portion of Site (looking W).
- Photo 14: Asphalt final cover at Michael Road entrance (looking W).
- Photo 15: Asphalt and hardscape final cover along northern portion of on-site building (looking S).
- Photo 16: Asphalt and hardscape final cover along front portion of Site, grass-covered island at right (looking E).



## SITE PHOTOGRAPHS

**Photo 17:**



**Photo 18:**



**Photo 19:**



**Photo 20:**



Photo 17: Grass-covered island, typical of five (looking E).

Photo 18: Asphalt and hardscape final cover along Orchard Park Road (looking SE).

Photo 19: Asphalt and hardscape final cover at main entrance (looking N).

Photo 20: Asphalt and hardscape final cover at well MW-4A (bottom) (looking N).

Periodic Review Report  
3021 Orchard Park Road Site  
Orchard Park, New York

Photo Date: November 19, 2018





# APPENDIX C

## SEMI-ANNUAL GROUNDWATER MONITORING INFORMATION

# APPENDIX C1

## FIELD FORMS

# WATER SAMPLE COLLECTION LOG

## PROJECT INFORMATION

Project Name: 3021 OP Road GWM  
 Project No.: 0010-001-001  
 Client: 3021-3041 Orchard Park Road, LLC  
 Location: 3021 Orchard Park Road Site

## SAMPLE DESCRIPTION

I.D.: **MW-4A**  
 Matrix: ☐ SURFACE WATER ☐ STORM  
☐ SEEP ☒ GROUNDWATER  
☐ INFLUENT ☐ EFFLUENT

## SAMPLE INFORMATION

Date Collected: 7/6/18  
 Time Collected: 1220  
 Date Shipped to Lab: 7/6/18  
 Collected By: BCK  
 Sample Type: ☐ POINT ☒ GRAB  
☐ COMPOSITE  
 Collection Method: ☐ DIRECT DIP ☐ SS / POLY. DIPPER ☐ PERISTALTIC PUMP  
☐ POLY. DISP. BAILER ☐ ISCO SAMPLER ☒ HYDRASLEEVE SPEEDBAG

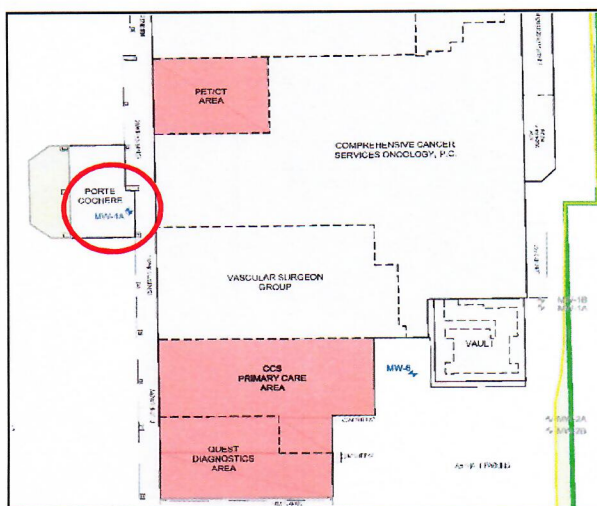
## SAMPLING INFORMATION

Depth to Water (fbTOR): 6.70  
 Depth to Bottom (fbTOR): 19.30  
 Screen Length (feet): 15.00  
 Submerged bag time (mins): 11:37 to 12:17  
 Well ID-2 in.

Parameter	First	Last	Units
pH	6.22		units
Temp.	70.2		F °C
Cond.	5902		µS mS
Turbidity	626		NTU
Eh / ORP	+52		mV
D.O.	0.000	3.63	ppm
Odor	none		olfactory
Appearance	sl. cloudy		visual

## LOCATION SKETCH

(not to scale, dimensions are approximate)



## SAMPLE DESCRIPTION (appearance, olfactory):

sl. cloudy, no odor

## SAMPLE ANALYSIS (depth, laboratory analysis required):

CP-51 plus TCL VOCs via Method 8260

## ADDITIONAL REMARKS:

Hydra Sleeve Sampler cycled 3-5 times

## PREPARED BY:

BCK

## DATE:

7/6/18



# WATER SAMPLE COLLECTION LOG

## PROJECT INFORMATION

Project Name: 3021 OP Road GWM  
 Project No.: 0010-001-001  
 Client: 3021-3041 Orchard Park Road, LLC  
 Location: 3021 Orchard Park Road Site

## SAMPLE DESCRIPTION

I.D.: **MW-6**  
 Matrix: ☐ SURFACE WATER ☐ STORM  
☐ SEEP ☒ GROUNDWATER  
☐ INFLUENT ☐ EFFLUENT

## SAMPLE INFORMATION

Date Collected: 7/6/18  
 Time Collected: 1240  
 Date Shipped to Lab: 7/6/18  
 Collected By: BCH  
 Sample Type: ☐ POINT ☒ GRAB  
☐ COMPOSITE  
 Collection Method: ☐ DIRECT DIP ☐ SS / POLY. DIPPER ☐ PERISTALTIC PUMP  
☐ POLY. DISP. BAILER ☐ ISCO SAMPLER ☒ HYDRASLEEVE SPEEDBAG

## SAMPLING INFORMATION

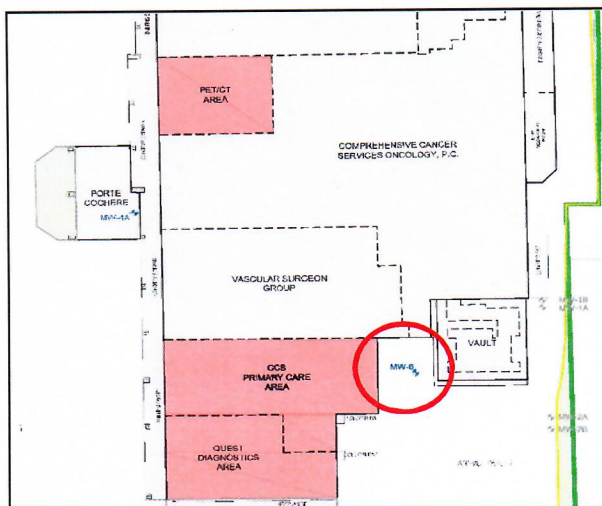
Depth to Water (fbTOR): 5.47  
 Depth to Bottom (fbTOR): 18.73  
 Screen Length (feet): 15.00  
 Submerged bag time (mins): 1153 - 1235  
 well ID - 4 inch

Parameter	First	Last	Units
pH	6.31		units
Temp.	74.7		°F
Cond.	5227		µS
Turbidity	11.5		NTU
Eh / ORP	-39		mV
D.O.	*		ppm
Odor	sulfur		olfactory
Appearance	clear		visual

\* insufficient volume to analyze DO

## LOCATION SKETCH

(not to scale, dimensions are approximate)



## SAMPLE DESCRIPTION (appearance, olfactory):

## SAMPLE ANALYSIS (depth, laboratory analysis required):

CP-51 plus TCL VOCs via Method 8260

Attenuation Parameters: dissolved iron, dissolved manganese, sulfate, nitrate-nitrite, and dissolved gases (methane, ethane, ethene)

## ADDITIONAL REMARKS:

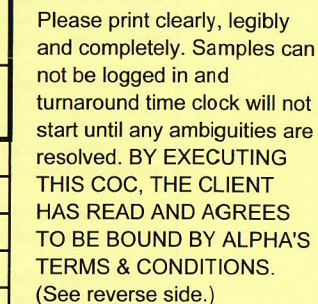
HydraSleeve sampler cycled 3-5 times  
 water in road box removed prior to J-plug removal

PREPARED BY:

DATE:

7/6/18









# Calibration Certificate

rev 8/9/11

Work Order No.: SE-057811

Date of Service: 6/28/2018 11:30:00 AM

Unit Under Test: Lamotte 2020WE Turbidity Meter

Asset No.: FA03027 Technician Matt Cribbin  
Serial No: 8238-3216

Initials:

MC

TEST	Specification	Result
Standard Calibration	Pass/Fail	Pass

## TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
Turbidity Free Water	Lot#6GE1000 Exp: N/A	1
1.0 NTU AMCO Turbidity Standard	Lot No.18033451 exp.02/19	1
10 NTU AMCO Turbidity Standard	Lot No. 18023191 Exp.2/19	1

## TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.



# Calibration Certificate

rev 8/9/11

Work Order No.: SE-057803

Date of Service: 6/28/2018 9:50:00 AM

Unit Under Test: Myron 6P Ultrameter

Asset No.: FA00596 Technician Matt Cribbin  
Serial No: 6218870

Initials: 

TEST	Specification	Result
Standard Calibration	Pass/Fail	Pass

## TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
pH 7.00 Standard Solution	Lot No. 8GE854 Exp. 05/20	1
pH 10.00 Standard Solution	Lot No. 7GK699 Exp. Nov. 2019	1
pH 4.00 Standard Solution	Lot No. 7GF303 Exp. 06/19	1
ORP Standard Solution	Lot No.16J100375 exp. 10/03/21	1
7.00 mS Conductivity Standard Solution	Lot No. 7GL794 Exp.012/18	1

## TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.

## WATER SAMPLE COLLECTION LOG

### PROJECT INFORMATION

Project Name: 3021 OP Road GWM  
Project No.: 0010-001-001  
Client: 3021-3041 Orchard Park Road, LLC  
Location: 3021 Orchard Park Road Site

### SAMPLE DESCRIPTION

I.D.: **MW-4A**  
Matrix: ☐ SURFACE WATER ☐ STORM  
☐ SEEP ☒ GROUNDWATER  
☐ INFLUENT ☐ EFFLUENT

### SAMPLE INFORMATION

Date Collected: 11/19/18  
Time Collected: 11:10 AM  
Date Shipped to Lab: 11/19/18  
Collected By: BCH  
Sample Type: ☐ POINT ☒ GRAB  
☐ COMPOSITE  
Collection Method: ☐ DIRECT DIP ☐ SS / POLY. DIPPER ☐ PERISTALTIC PUMP  
☐ POLY. DISP. BAILER ☐ ISCO SAMPLER ☒ HYDRASLEEVE SPEEDBAG

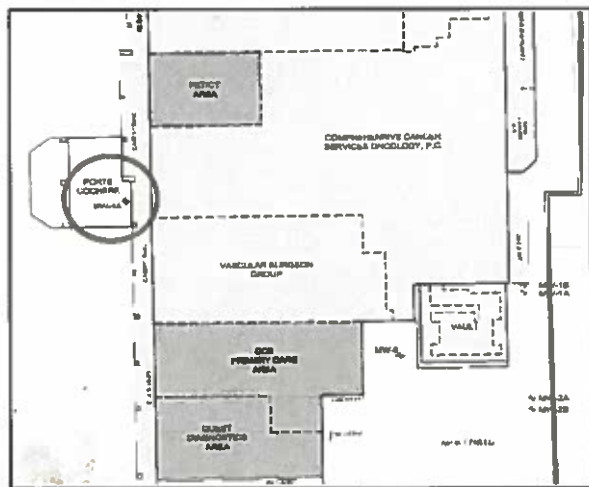
### SAMPLING INFORMATION

Depth to Water (fbTOR): 6.28  
Depth to Bottom (fbTOR): 19.30  
Screen Length (feet): 15.00  
Submerged bag time (mins): 4:50 - 11:10

Parameter	First	Last	Units
pH	6.12		units
Temp.	14.5		°C
Cond.	6700		mS
Turbidity	68.7		NTU
Eh / ORP	+87		mV
D.O.	2.37		ppm
Odor	None		olfactory
Appearance	sl. cloudy		visual

### LOCATION SKETCH

(not to scale, dimensions are approximate)



### SAMPLE DESCRIPTION (appearance, olfactory):

Sl. Cloudy, no odor

### SAMPLE ANALYSIS (depth, laboratory analysis required):

CP-51 plus TCL VOCs via Method 8260

### ADDITIONAL REMARKS:

PREPARED BY:

*Byron C. Han*

DATE:

11/19/18



## WATER SAMPLE COLLECTION LOG

### PROJECT INFORMATION

Project Name: 3021 OP Road GWM  
 Project No.: 0010-001-001  
 Client: 3021-3041 Orchard Park Road, LLC  
 Location: 3021 Orchard Park Road Site

### SAMPLE DESCRIPTION

I.D.: **MW-6**  
 Matrix: ☐ SURFACE WATER ☐ STORM  
☐ SEEP ☒ GROUNDWATER  
☐ INFLUENT ☐ EFFLUENT

### SAMPLE INFORMATION

Date Collected: 11/19/18  
 Time Collected: 11:26 AM  
 Date Shipped to Lab: 11/19/18  
 Collected By: BCH  
 Sample Type: ☐ POINT ☒ GRAB  
☐ COMPOSITE  
 Collection Method: ☐ DIRECT DIP ☐ SS / POLY. DIPPER ☐ PERISTALTIC PUMP  
☐ POLY. DISP. BAILER ☐ ISCO SAMPLER ☒ HYDRASLEEVE SPEEDBAG

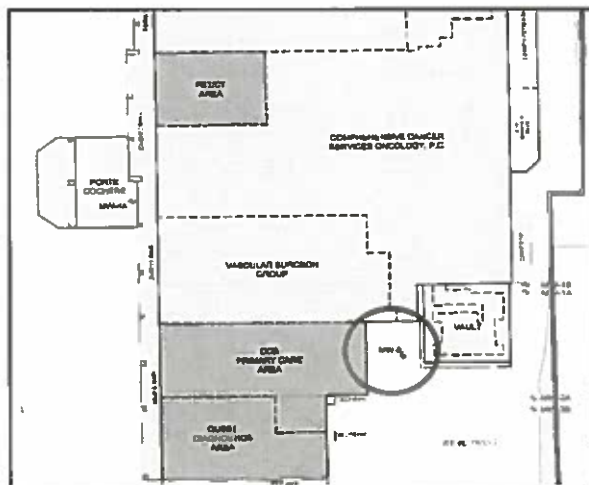
### SAMPLING INFORMATION

Depth to Water (fbTOR): 5.09  
 Depth to Bottom (fbTOR): 18.73  
 Screen Length (feet): 15.00  
 Submerged bag time (mins): 10:07 - 11:26

Parameter	First	Last	Units
pH	6.30		units
Temp.	13.6		°C
Cond.	5460		mS
Turbidity	22.1		NTU
Eh / ORP	+10		mV
D.O.	4.53		ppm
Odor	sl. sulfur		olfactory
Appearance	clear		visual

### LOCATION SKETCH

(not to scale, dimensions are approximate)



### SAMPLE DESCRIPTION (appearance, olfactory):

clear, sl. sulfur odor

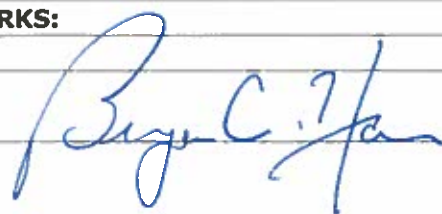
### SAMPLE ANALYSIS (depth, laboratory analysis required):

CP-51 plus TCL VOCs via Method 8260

Attenuation Parameters: dissolved iron, dissolved manganese, sulfate, nitrate-nitrite, and dissolved gases (methane, ethane, ethene)

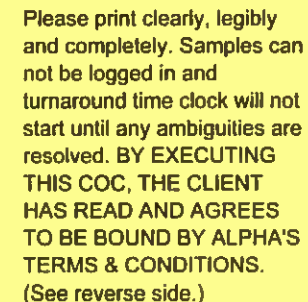
### ADDITIONAL REMARKS:

PREPARED BY:



DATE:

11/19/18



Work Order No.: SE-062145

Date of Service: 11/15/2018 12:00:00 AM

Unit Under Test: Myron 6P Ultrameter

Asset No.: FA01094

Technician: Brooke Derkowski

Initials: BD

Serial No: 6223123

TEST	Specification	Result
Standard Calibration	Pass/Fail	Pass

**TEST STANDARDS USED:**

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
7.00 mS Conductivity Standard Solution	Lot No. 8GG502 Exp. 7/19	1
pH 7.00 Standard Solution	Lot No. 8GE854 Exp. 05/20	1
pH 10.00 Standard Solution	Lot No. 8GE796 Exp. 5/20	1
pH 4.00 Standard Solution	Lot No. 8GF041 Exp. 06/20	1
ORP Standard Solution	Lot No.16J100375 exp. 10/03/21	1

**TEST EQUIPMENT USED:**

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.



# *Certificate Of Analysis*

<b>Product</b>	Buffer Solution, pH 10.00
<b>Code</b>	BU5010
<b>Lot Number</b>	8GE796
<b>Specifications</b>	10.00 +/- 0.01 @ 25C
<b>Lot Analysis</b>	10.01 @25C
<b>Expiration</b>	May/20
<b>NIST STD used</b>	SRM 191d
<b>Date of Manufacture</b>	5/24/18

We certify that the above referenced lot of reagent was manufactured per ASTM Standards or Standards Methods, 23rd edition. All glassware complies with Class A tolerance requirements. Balances are calibrated using NIST traceable mass standards. Chemicals used in the product are lot traceable. A quality control testing report is kept for each manufactured lot.

Matt Nelson  
Research Chemist

5/24/18

860 Glits Run Road - Hanover - PA - 717 632 1291  
Fax: 717 633 1285 Email: [sales@aquaphoenixsci.com](mailto:sales@aquaphoenixsci.com)



# *Certificate Of Analysis*

<b>Product</b>	Buffer Solution, pH 4.00
<b>Code</b>	BU5004
<b>Lot Number</b>	8GF041
<b>Specifications</b>	4.00 +/- 0.01 @ 25C
<b>Lot Analysis</b>	4.01 @25C
<b>Expiration</b>	Jun/20
<b>NIST STD used</b>	SRM 185i
<b>Date of Manufacture</b>	6/5/18

We certify that the above referenced lot of reagent was manufactured per ASTM Standards or Standards Methods, 23rd edition. All glassware complies with Class A tolerance requirements. Balances are calibrated using NIST traceable mass standards. Chemicals used in the product are lot traceable. A quality control testing report is kept for each manufactured lot.

Matt Nelson  
Research Chemist

6/5/18

860 Gitts Run Road - Hanover - PA - 717 632 1291  
Fax: 717 633 1285 Email: sales@aquaphoenixsci.com



# *Certificate Of Analysis*

<b>Product</b>	Conductivity Standard, 7000 $\mu$ S/cm	
<b>Code</b>	CS7000	
<b>Lot Number</b>	8GG502	
<b>Specifications</b>	7000 +/- 70us/cm @25C	
<b>Lot Analysis</b>	7.01mS/cm @25C	
<b>Expiration</b>	Jul/19	
<b>NIST STD used</b>	SRM 999b	
<b>Date of Manufacture</b>	7/16/18	

We certify that the above referenced lot of reagent was manufactured per ASTM Standards or Standards Methods, 23rd edition. All glassware complies with Class A tolerance requirements. Balances are calibrated using NIST traceable mass standards. Chemicals used in the product are lot traceable. A quality control testing report is kept for each manufactured lot.

Matt Nelson  
Research Chemist

7/16/18

860 Gitts Run Road - Hanover - PA - 717 632 1291  
Fax: 717 633 1285 Email: [sales@aquaphoenixsci.com](mailto:sales@aquaphoenixsci.com)





# *Certificate Of Analysis*

<b>Product</b>	Buffer Solution, pH 7.00
<b>Code</b>	BU5007
<b>Lot Number</b>	8GE854
<b>Specifications</b>	7.00 +/- 0.01 @ 25C
<b>Lot Analysis</b>	7.00 @25C
<b>Expiration</b>	May/20
<b>NIST STD used</b>	SRM 186g
<b>Date of Manufacture</b>	5/30/18

We certify that the above referenced lot of reagent was manufactured per ASTM Standards or Standards Methods, 23rd edition. All glassware complies with Class A tolerance requirements. Balances are calibrated using NIST traceable mass standards. Chemicals used in the product are lot traceable. A quality control testing report is kept for each manufactured lot.

Matt Nelson  
Research Chemist

5/30/18

860 Gitts Run Road - Hanover - PA - 717 632 1291  
Fax: 717 633 1285 Email: [sales@aquaphoenixsci.com](mailto:sales@aquaphoenixsci.com)



# Calibration Certificate

rev 8/9/11

Work Order No.: SE-062152

Date of Service: 11/15/2018 12:00:00 AM

Unit Under Test: Lamotte 2020WE Turbidity Meter

Asset No.: FA03354

Technician: Brooke Derkowski

Initials: BD

Serial No: 9105-1817

TEST	Specification	Result
Standard Calibration	Pass/Fail	Pass

## TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
Turbidity Free Water	Lot#6GE1000 Exp: N/A	1
10 NTU AMCO Turbidity Standard	Lot No. 18023191 Exp.2/19	1
1.0 NTU AMCO Turbidity Standard	Lot No.18033451 exp.02/19	1

## TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.



Work Order No.: SE-062151

Date of Service: 11/15/2018 03:52:00 PM

Unit Under Test: YSI ProODO, 20m

Asset No.: FA00356 Technician: Luke Spencer

Serial No: 12G104093

Initials: LJS

TEST	Specification	Result
Standard Calibration	Pass/Fail	PASS

**TEST STANDARDS USED:**

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
Air Saturated Water		1
Sodium Sulfite/ Zero DO Standard	Lot No. C473638, No exp date	1

**TEST EQUIPMENT USED:**

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.

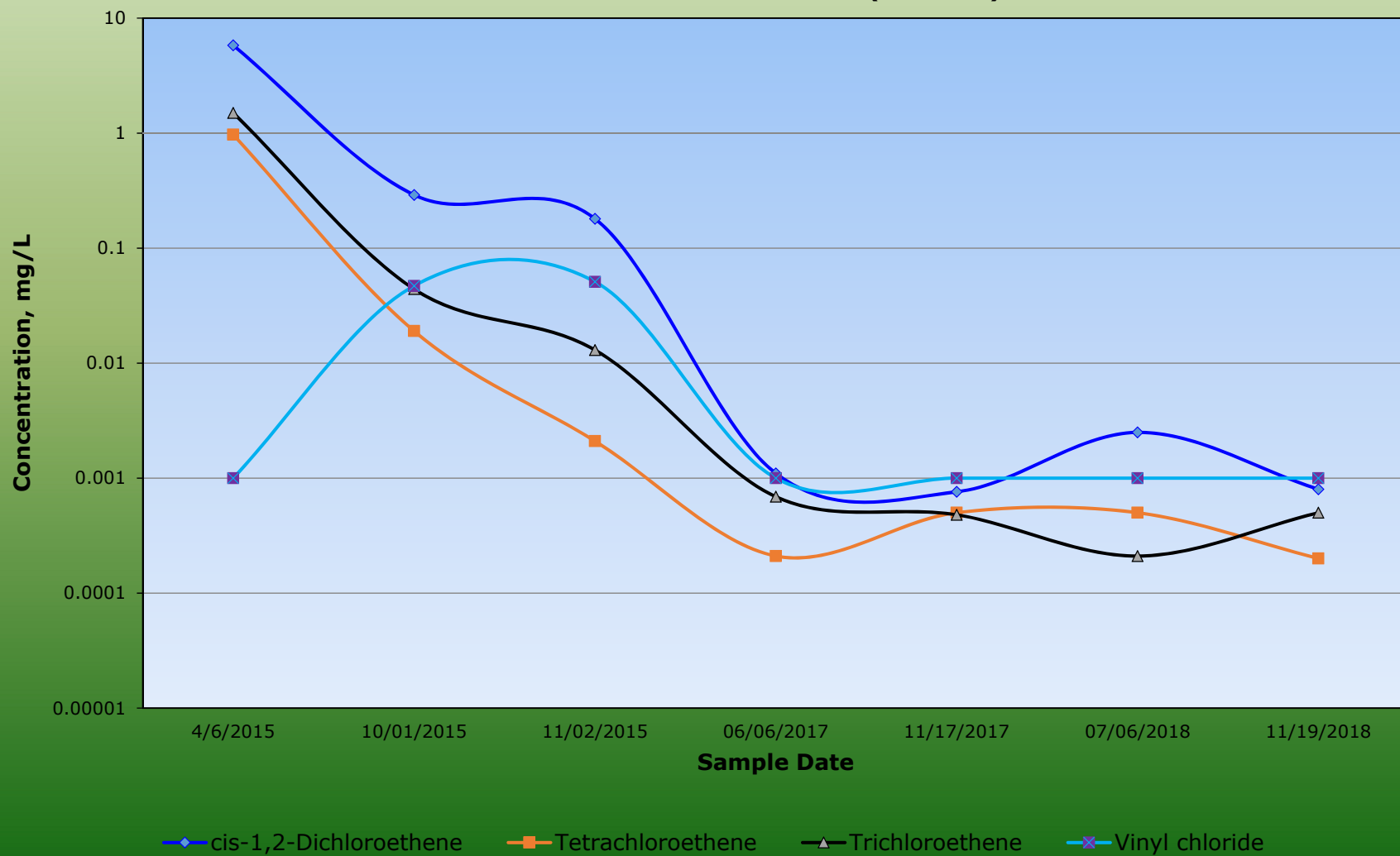
## **APPENDIX C2**

### **CONCENTRATION VS. TIME PLOTS**

**APPENDIX C2**

**TOTAL cVOC CONCENTRATION vs. TIME**

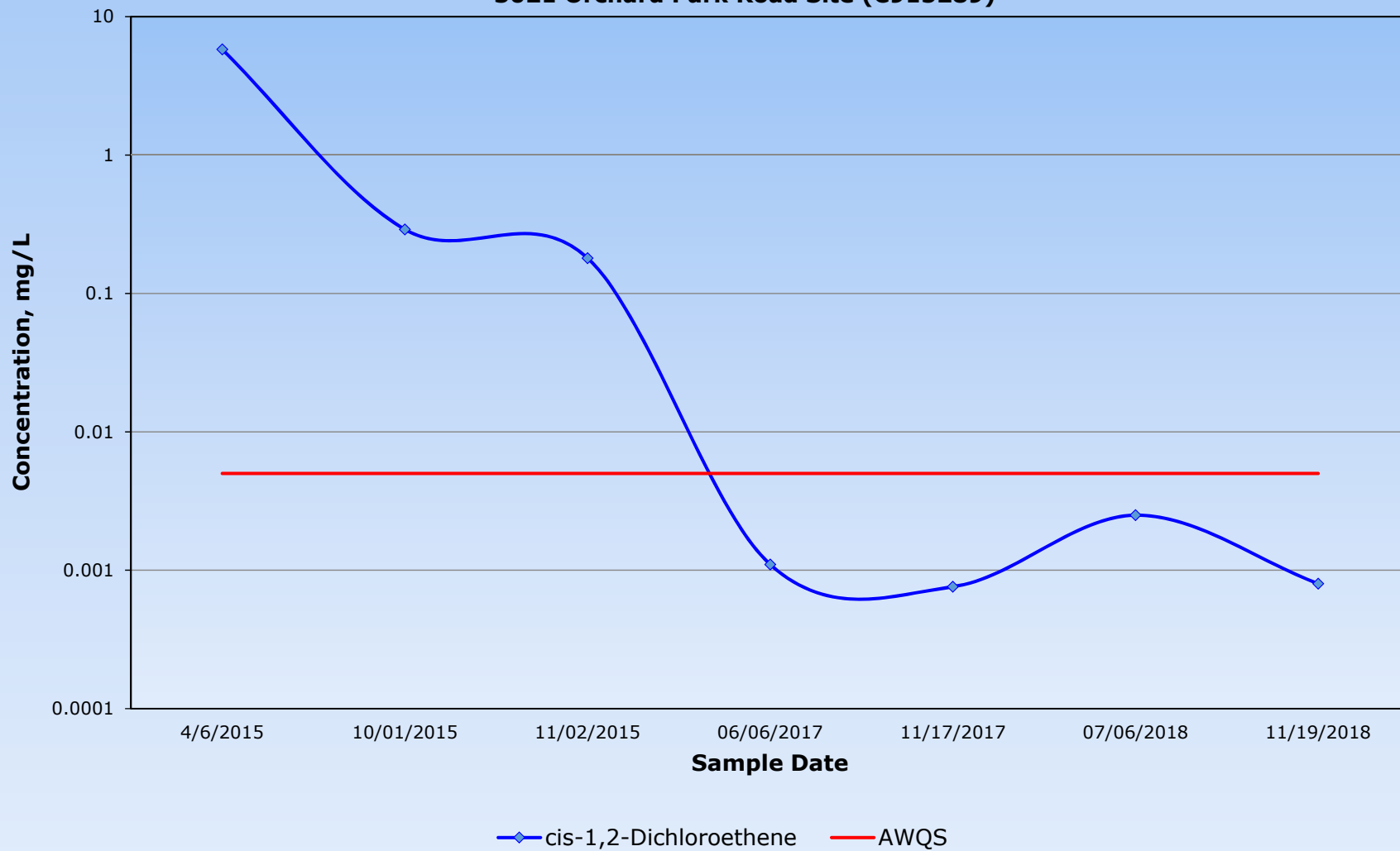
**Periodic Review Report  
3021 Orchard Park Road Site (C915289)**



**APPENDIX C2**

**cis-1,2-DICHLOROETHENE CONCENTRATION vs. TIME**

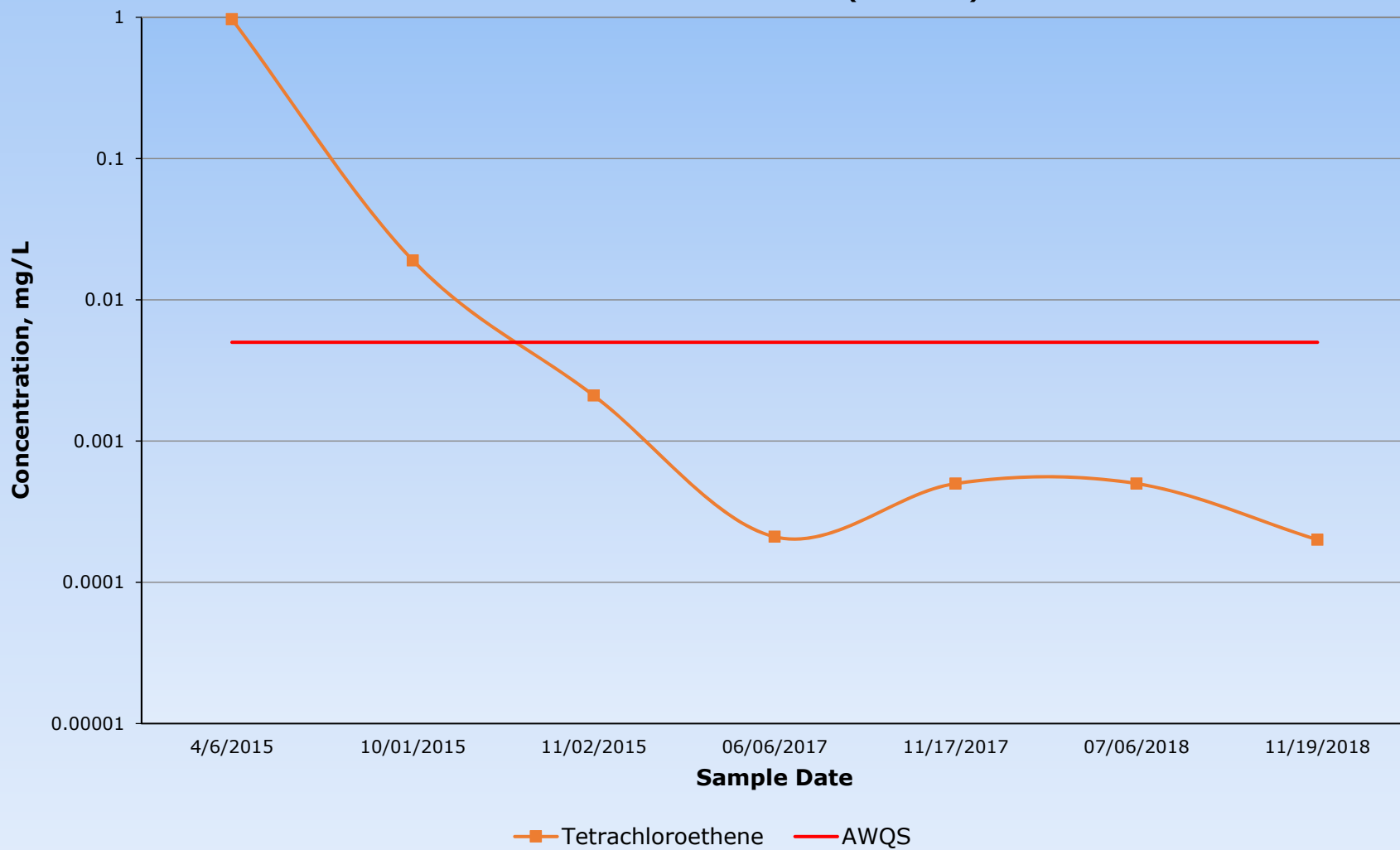
**Periodic Review Report  
3021 Orchard Park Road Site (C915289)**



**APPENDIX C2**

**TETRACHLOROETHENE (PCE) CONCENTRATION vs. TIME**

**Periodic Review Report  
3021 Orchard Park Road Site (C915289)**

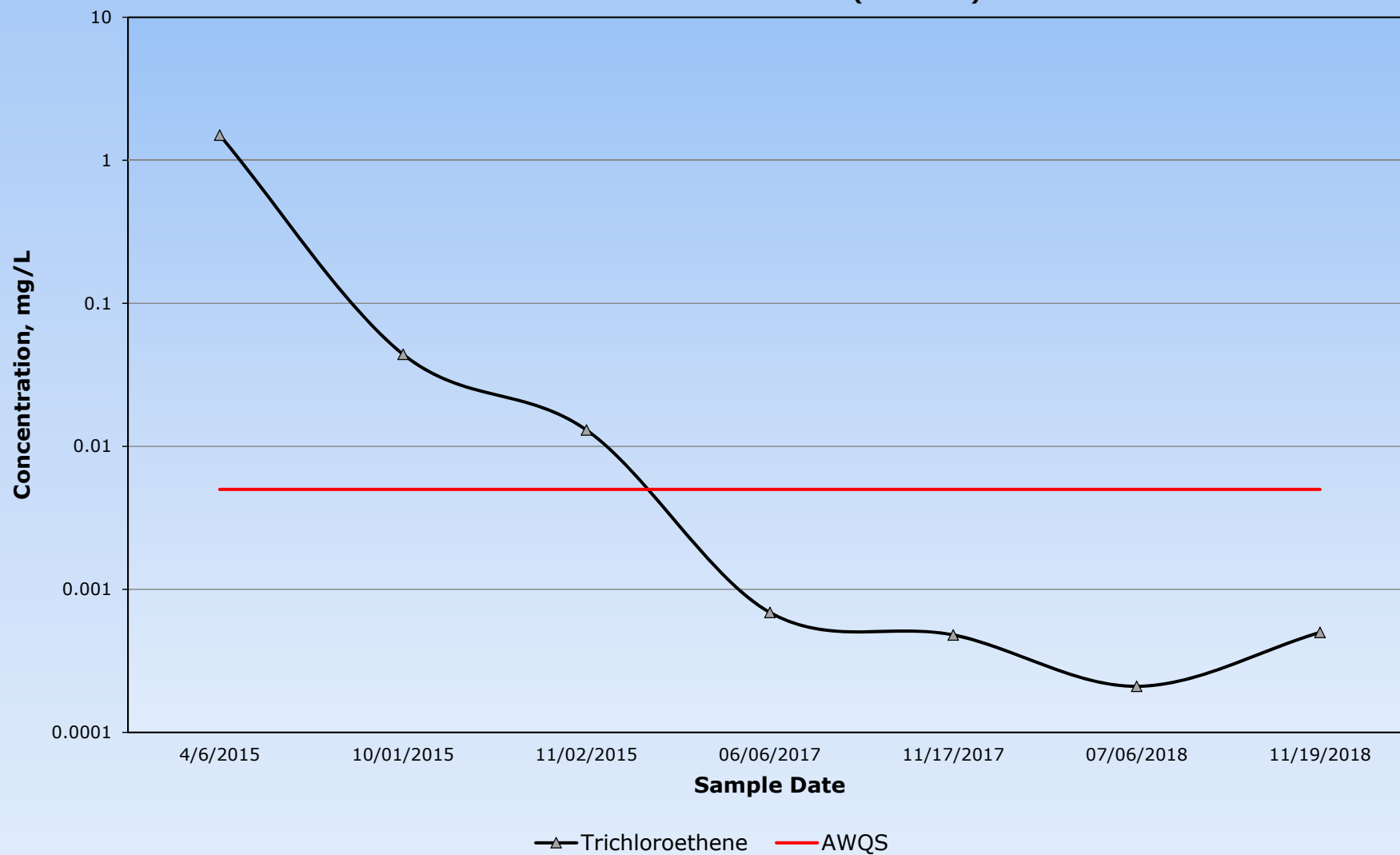




**APPENDIX C2**

**TRICHLOROETHENE (TCE) CONCENTRATION vs. TIME**

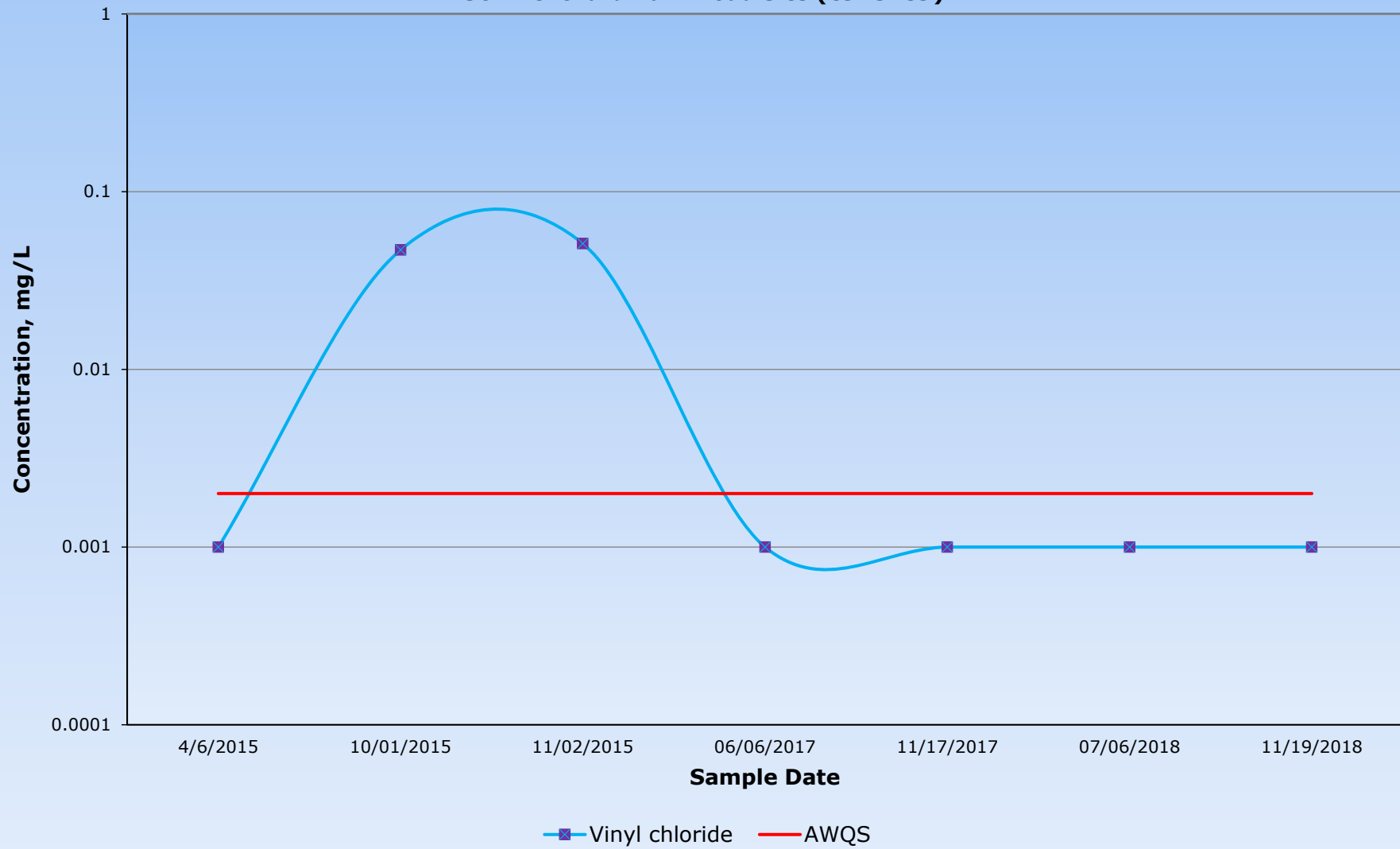
**Periodic Review Report  
3021 Orchard Park Road Site (C915289)**



**APPENDIX C2**

**VINYL CHLORIDE (VC) CONCENTRATION vs. TIME**

**Periodic Review Report  
3021 Orchard Park Road Site (C915289)**



## **APPENDIX C3**

### **LABORATORY ANALYTICAL DATA JULY 2018**



## ANALYTICAL REPORT

Lab Number:	L1825714
Client:	Orion Environmental Solutions, LLC 4535 Southwestern Blvd. Suite 210 Hamburg, NY 14075
ATTN:	Bryan Hann
Phone:	(716) 202-4475
Project Name:	3021 ORCHARD PARK RD.
Project Number:	0010-001-001
Report Date:	07/17/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 3021 ORCHARD PARK RD.  
**Project Number:** 0010-001-001

**Lab Number:** L1825714  
**Report Date:** 07/17/18

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1825714-01	MW-4A	WATER	3021-3041 ORCHARD PARK RD., OP, NY	07/06/18 12:20	07/06/18
L1825714-02	MW-6	WATER	3021-3041 ORCHARD PARK RD., OP, NY	07/06/18 12:40	07/06/18
L1825714-03	TRIP BLANK	WATER	3021-3041 ORCHARD PARK RD., OP, NY	07/06/18 00:00	07/06/18



**Project Name:** 3021 ORCHARD PARK RD.  
**Project Number:** 0010-001-001

**Lab Number:** L1825714  
**Report Date:** 07/17/18

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

---

**Project Name:** 3021 ORCHARD PARK RD.  
**Project Number:** 0010-001-001

**Lab Number:** L1825714  
**Report Date:** 07/17/18

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Dissolved Gases

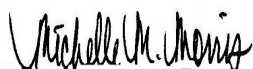
L1825714-02 was collected in a pre-preserved vial; however, the pH of the sample was determined to be greater than two.

#### Anions by Ion Chromatography

L1825714-02: The sample has an elevated detection limit for Sulfate due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Michelle M. Morris

Title: Technical Director/Representative

Date: 07/17/18

# ORGANICS

# **VOLATILES**

**Project Name:** 3021 ORCHARD PARK RD.**Lab Number:** L1825714**Project Number:** 0010-001-001**Report Date:** 07/17/18**SAMPLE RESULTS**

Lab ID: L1825714-01  
 Client ID: MW-4A  
 Sample Location: 3021-3041 ORCHARD PARK RD., OP, NY

Date Collected: 07/06/18 12:20  
 Date Received: 07/06/18  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/11/18 14:24  
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1



**Project Name:** 3021 ORCHARD PARK RD.**Lab Number:** L1825714**Project Number:** 0010-001-001**Report Date:** 07/17/18**SAMPLE RESULTS****Lab ID:** L1825714-01**Date Collected:** 07/06/18 12:20**Client ID:** MW-4A**Date Received:** 07/06/18**Sample Location:** 3021-3041 ORCHARD PARK RD., OP, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	97		70-130



**Project Name:** 3021 ORCHARD PARK RD.**Lab Number:** L1825714**Project Number:** 0010-001-001**Report Date:** 07/17/18**SAMPLE RESULTS**

Lab ID: L1825714-02  
 Client ID: MW-6  
 Sample Location: 3021-3041 ORCHARD PARK RD., OP, NY

Date Collected: 07/06/18 12:40  
 Date Received: 07/06/18  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/11/18 14:50  
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.30	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.21	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** 3021 ORCHARD PARK RD.**Lab Number:** L1825714**Project Number:** 0010-001-001**Report Date:** 07/17/18**SAMPLE RESULTS****Lab ID:** L1825714-02**Date Collected:** 07/06/18 12:40**Client ID:** MW-6**Date Received:** 07/06/18**Sample Location:** 3021-3041 ORCHARD PARK RD., OP, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	0.89	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	18		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	2.1	J	ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	4.2	J	ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 3021 ORCHARD PARK RD.**Lab Number:** L1825714**Project Number:** 0010-001-001**Report Date:** 07/17/18**SAMPLE RESULTS**

Lab ID: L1825714-02

Date Collected: 07/06/18 12:40

Client ID: MW-6

Date Received: 07/06/18

Sample Location: 3021-3041 ORCHARD PARK RD., OP, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 117,-

Analytical Date: 07/09/18 09:38

Analyst: JT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	17000	E	ug/l	5.00	1.00	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	1.20		ug/l	0.500	0.500	1	A

**Project Name:** 3021 ORCHARD PARK RD.**Project Number:** 0010-001-001**Lab Number:** L1825714**Report Date:** 07/17/18**SAMPLE RESULTS**

Lab ID: L1825714-02 D  
Client ID: MW-6  
Sample Location: 3021-3041 ORCHARD PARK RD., OP, NY

Date Collected: 07/06/18 12:40  
Date Received: 07/06/18  
Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 117,-

Analytical Date: 07/09/18 11:24

Analyst: JT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	13900		ug/l	25.0	5.00	5	A



**Project Name:** 3021 ORCHARD PARK RD.**Lab Number:** L1825714**Project Number:** 0010-001-001**Report Date:** 07/17/18**SAMPLE RESULTS**

Lab ID: L1825714-03  
 Client ID: TRIP BLANK  
 Sample Location: 3021-3041 ORCHARD PARK RD., OP, NY

Date Collected: 07/06/18 00:00  
 Date Received: 07/06/18  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/11/18 15:15  
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** 3021 ORCHARD PARK RD.**Lab Number:** L1825714**Project Number:** 0010-001-001**Report Date:** 07/17/18**SAMPLE RESULTS****Lab ID:** L1825714-03**Date Collected:** 07/06/18 00:00**Client ID:** TRIP BLANK**Date Received:** 07/06/18**Sample Location:** 3021-3041 ORCHARD PARK RD., OP, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.2	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 3021 ORCHARD PARK RD.**Lab Number:** L1825714**Project Number:** 0010-001-001**Report Date:** 07/17/18**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 117,-  
Analytical Date: 07/09/18 09:02  
Analyst: JT

Parameter	Result	Qualifier	Units	RL	MDL	
Dissolved Gases by GC - Mansfield Lab for sample(s): 02 Batch: WG1133751-4						
Methane	1.08	J	ug/l	5.00	1.00	A
Ethene	ND		ug/l	0.500	0.500	A
Ethane	ND		ug/l	0.500	0.500	A

Project Name: 3021 ORCHARD PARK RD.

Lab Number: L1825714

Project Number: 0010-001-001

Report Date: 07/17/18

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 07/11/18 08:28  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1134673-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 3021 ORCHARD PARK RD.

Lab Number: L1825714

Project Number: 0010-001-001

Report Date: 07/17/18

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 07/11/18 08:28  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1134673-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40



**Project Name:** 3021 ORCHARD PARK RD.**Lab Number:** L1825714**Project Number:** 0010-001-001**Report Date:** 07/17/18

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 07/11/18 08:28  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1134673-5					

#### Tentatively Identified Compounds

Total TIC Compounds	1.92	J	ug/l		
Dimethyl ether	1.92	NJ	ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	99		70-130

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** 3021 ORCHARD PARK RD.

**Project Number:** 0010-001-001

**Lab Number:** L1825714

**Report Date:** 07/17/18

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>	<b>Column</b>
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 02 Batch: WG1133751-3									
Methane	94		-		80-120	-		25	A
Ethene	91		-		80-120	-		25	A
Ethane	88		-		80-120	-		25	A

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 3021 ORCHARD PARK RD.

**Lab Number:** L1825714

**Project Number:** 0010-001-001

**Report Date:** 07/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1134673-3 WG1134673-4								
Methylene chloride	110		100		70-130	10		20
1,1-Dichloroethane	94		91		70-130	3		20
Chloroform	93		91		70-130	2		20
Carbon tetrachloride	85		83		63-132	2		20
1,2-Dichloropropane	95		93		70-130	2		20
Dibromochloromethane	86		85		63-130	1		20
1,1,2-Trichloroethane	98		98		70-130	0		20
Tetrachloroethene	92		90		70-130	2		20
Chlorobenzene	97		95		75-130	2		20
Trichlorofluoromethane	92		88		62-150	4		20
1,2-Dichloroethane	91		90		70-130	1		20
1,1,1-Trichloroethane	90		87		67-130	3		20
Bromodichloromethane	92		90		67-130	2		20
trans-1,3-Dichloropropene	91		91		70-130	0		20
cis-1,3-Dichloropropene	93		92		70-130	1		20
Bromoform	88		87		54-136	1		20
1,1,2,2-Tetrachloroethane	97		95		67-130	2		20
Benzene	92		90		70-130	2		20
Toluene	96		93		70-130	3		20
Ethylbenzene	95		92		70-130	3		20
Chloromethane	91		89		64-130	2		20
Bromomethane	86		82		39-139	5		20
Vinyl chloride	91		88		55-140	3		20

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** 3021 ORCHARD PARK RD.

**Project Number:** 0010-001-001

**Lab Number:** L1825714

**Report Date:** 07/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1134673-3 WG1134673-4								
Chloroethane	90		85		55-138	6		20
1,1-Dichloroethene	92		90		61-145	2		20
trans-1,2-Dichloroethene	95		92		70-130	3		20
Trichloroethene	89		85		70-130	5		20
1,2-Dichlorobenzene	96		94		70-130	2		20
1,3-Dichlorobenzene	96		93		70-130	3		20
1,4-Dichlorobenzene	97		93		70-130	4		20
Methyl tert butyl ether	86		85		63-130	1		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	93		92		70-130	1		20
Styrene	100		95		70-130	5		20
Dichlorodifluoromethane	87		85		36-147	2		20
Acetone	92		94		58-148	2		20
Carbon disulfide	94		91		51-130	3		20
2-Butanone	94		92		63-138	2		20
4-Methyl-2-pentanone	90		90		59-130	0		20
2-Hexanone	82		84		57-130	2		20
Bromochloromethane	99		95		70-130	4		20
1,2-Dibromoethane	94		93		70-130	1		20
n-Butylbenzene	95		89		53-136	7		20
sec-Butylbenzene	94		89		70-130	5		20
1,2-Dibromo-3-chloropropane	84		86		41-144	2		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 3021 ORCHARD PARK RD.

**Project Number:** 0010-001-001

**Lab Number:** L1825714

**Report Date:** 07/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1134673-3 WG1134673-4								
Isopropylbenzene	95		92		70-130	3		20
p-Isopropyltoluene	94		88		70-130	7		20
n-Propylbenzene	97		92		69-130	5		20
1,2,3-Trichlorobenzene	97		96		70-130	1		20
1,2,4-Trichlorobenzene	94		92		70-130	2		20
1,3,5-Trimethylbenzene	95		91		64-130	4		20
1,2,4-Trimethylbenzene	97		93		70-130	4		20
Methyl Acetate	88		89		70-130	1		20
Cyclohexane	87		84		70-130	4		20
1,4-Dioxane	120		120		56-162	0		20
Freon-113	88		86		70-130	2		20
Methyl cyclohexane	87		83		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		100		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	101		101		70-130



## METALS

**Project Name:** 3021 ORCHARD PARK RD.**Lab Number:** L1825714**Project Number:** 0010-001-001**Report Date:** 07/17/18**SAMPLE RESULTS**

Lab ID: L1825714-02

Date Collected: 07/06/18 12:40

Client ID: MW-6

Date Received: 07/06/18

Sample Location: 3021-3041 ORCHARD PARK RD., OP, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Iron, Dissolved	0.0500		mg/l	0.0500	0.0191	1	07/13/18 11:55	07/16/18 10:58	EPA 3005A	1,6020B	AM
Manganese, Dissolved	1.928		mg/l	0.00100	0.00044	1	07/13/18 11:55	07/16/18 10:58	EPA 3005A	1,6020B	AM



Project Name: 3021 ORCHARD PARK RD.

Lab Number: L1825714

Project Number: 0010-001-001

Report Date: 07/17/18

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02 Batch: WG1135390-1										
Iron, Dissolved	0.0206	J	mg/l	0.0500	0.0191	1	07/13/18 11:55	07/16/18 10:05	1,6020B	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	07/13/18 11:55	07/16/18 10:05	1,6020B	AM

### Prep Information

Digestion Method: EPA 3005A

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 3021 ORCHARD PARK RD.

**Project Number:** 0010-001-001

**Lab Number:** L1825714

**Report Date:** 07/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1135390-2								
Iron, Dissolved	110		-		80-120	-		
Manganese, Dissolved	100		-		80-120	-		

# **Matrix Spike Analysis** **Batch Quality Control**

**Project Name:** 3021 ORCHARD PARK RD.

**Lab Number:** L1825714

**Project Number:** 0010-001-001

**Report Date:** 07/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1135390-3 WG1135390-4 QC Sample: L1825885-01 Client ID: MS Sample												
Iron, Dissolved	ND	1	1.10	110		1.04	104		75-125	6		20
Manganese, Dissolved	0.03467	0.5	0.5520	103		0.5392	101		75-125	2		20
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1135390-7 WG1135390-8 QC Sample: L1826064-02 Client ID: MS Sample												
Iron, Dissolved	1.01	1	2.14	113		1.99	98		75-125	7		20
Manganese, Dissolved	0.1092	0.5	0.6160	101		0.6153	101		75-125	0		20

# **INORGANICS & MISCELLANEOUS**



**Project Name:** 3021 ORCHARD PARK RD.**Project Number:** 0010-001-001**Lab Number:** L1825714**Report Date:** 07/17/18**SAMPLE RESULTS****Lab ID:** L1825714-02**Client ID:** MW-6**Sample Location:** 3021-3041 ORCHARD PARK RD., OP, NY**Date Collected:** 07/06/18 12:40**Date Received:** 07/06/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Nitrogen, Nitrate/Nitrite	0.061	J	mg/l	0.10	0.033	1	-	07/10/18 22:36	44,353.2	MR
<b>Anions by Ion Chromatography - Westborough Lab</b>										
Sulfate	ND		mg/l	5.00	0.800	5	-	07/12/18 22:33	44,300.0	AU



**Project Name:** 3021 ORCHARD PARK RD.  
**Project Number:** 0010-001-001

**Lab Number:** L1825714  
**Report Date:** 07/17/18

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1134301-1										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.033	1	-	07/10/18 19:13	44,353.2	MR
Anions by Ion Chromatography - Westborough Lab for sample(s): 02 Batch: WG1135171-1										
Sulfate	ND		mg/l	1.00	0.160	1	-	07/12/18 17:33	44,300.0	AU

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 3021 ORCHARD PARK RD.

**Project Number:** 0010-001-001

**Lab Number:** L1825714

**Report Date:** 07/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1134301-2								
Nitrogen, Nitrate/Nitrite	102		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02 Batch: WG1135171-2								
Sulfate	103		-		90-110	-		

# **Matrix Spike Analysis** Batch Quality Control

**Project Name:** 3021 ORCHARD PARK RD.

**Lab Number:** L1825714

**Project Number:** 0010-001-001

**Report Date:** 07/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1134301-4 QC Sample: L1825776-02 Client ID: MS Sample												
Nitrogen, Nitrate/Nitrite	5.4	4	8.9	88		-	-		80-120	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1135171-3 QC Sample: L1825244-01 Client ID: MS Sample												
Sulfate	942.	400	1350	102		-	-		90-110	-		20

# **Lab Duplicate Analysis** *Batch Quality Control*

**Project Name:** 3021 ORCHARD PARK RD.

**Project Number:** 0010-001-001

**Lab Number:** L1825714

**Report Date:** 07/17/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1134301-3 QC Sample: L1825776-02 Client ID: DUP Sample						
Nitrogen, Nitrate/Nitrite	5.4	5.4	mg/l	0		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1135171-4 QC Sample: L1825244-01 Client ID: DUP Sample						
Sulfate	942.	938	mg/l	0		20

**Project Name:** 3021 ORCHARD PARK RD.**Lab Number:** L1825714**Project Number:** 0010-001-001**Report Date:** 07/17/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information****Cooler**                      **Custody Seal**

A                                  Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1825714-01A	Vial HCl preserved	A	N/A	N/A	3.2	Y	Absent		NYTCL-8260-R2(14)
L1825714-01B	Vial HCl preserved	A	N/A	N/A	3.2	Y	Absent		NYTCL-8260-R2(14)
L1825714-01C	Vial HCl preserved	A	N/A	N/A	3.2	Y	Absent		NYTCL-8260-R2(14)
L1825714-02A	Vial HCl preserved	A	N/A	N/A	3.2	Y	Absent		NYTCL-8260-R2(14)
L1825714-02B	Vial HCl preserved	A	N/A	N/A	3.2	Y	Absent		NYTCL-8260-R2(14)
L1825714-02C	Vial HCl preserved	A	N/A	N/A	3.2	Y	Absent		NYTCL-8260-R2(14)
L1825714-02D	20ml Vial HCl preserved	A	N/A	N/A	3.2	Y	Absent		DISSGAS(14)
L1825714-02E	20ml Vial HCl preserved	A	N/A	N/A	3.2	Y	Absent		DISSGAS(14)
L1825714-02F	Plastic 250ml H2SO4 preserved	A	<2	<2	3.2	Y	Absent		NO3/NO2-353(28)
L1825714-02G	Plastic 250ml unpreserved	A	7	7	3.2	Y	Absent		-
L1825714-02H	Plastic 60ml unpreserved	A	7	7	3.2	Y	Absent		SO4-300(28)
L1825714-02X	Plastic 120ml HNO3 preserved Filtrates	A	<2	<2	3.2	Y	Absent		MN-6020S(180),FE-6020S(180)
L1825714-03A	Vial HCl preserved	A	N/A	N/A	3.2	Y	Absent		NYTCL-8260-R2(14)
L1825714-03B	Vial HCl preserved	A	N/A	N/A	3.2	Y	Absent		NYTCL-8260-R2(14)

**Project Name:** 3021 ORCHARD PARK RD.**Lab Number:** L1825714**Project Number:** 0010-001-001**Report Date:** 07/17/18

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

**Report Format:** DU Report with 'J' Qualifiers





**Project Name:** 3021 ORCHARD PARK RD.**Lab Number:** L1825714**Project Number:** 0010-001-001**Report Date:** 07/17/18**Data Qualifiers**

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

*Report Format:* DU Report with 'J' Qualifiers

**Project Name:** 3021 ORCHARD PARK RD.**Lab Number:** L1825714**Project Number:** 0010-001-001**Report Date:** 07/17/18

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



**Alpha Analytical, Inc.**Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

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**Certification Information**

The following analytes are not included in our Primary NELAP Scope of Accreditation:

**Westborough Facility****EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

**Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,****SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

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## **APPENDIX C4**

### **LABORATORY ANALYTICAL DATA NOVEMBER 2018**



## ANALYTICAL REPORT

Lab Number:	L1847434
Client:	Orion Environmental Solutions, LLC 4535 Southwestern Blvd. Suite 210 Hamburg, NY 14075
ATTN:	Bryan Hann
Phone:	(716) 202-4475
Project Name:	3021 ORCHARD PARK ROAD
Project Number:	0010-001-001
Report Date:	11/30/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 3021 ORCHARD PARK ROAD  
**Project Number:** 0010-001-001

**Lab Number:** L1847434  
**Report Date:** 11/30/18

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1847434-01	MW-4A	WATER	3021-3041 ORCHARD PARK RD., ORCHARD PARK, NY	11/19/18 11:10	11/19/18
L1847434-02	MW-6	WATER	3021-3041 ORCHARD PARK RD., ORCHARD PARK, NY	11/19/18 11:26	11/19/18
L1847434-03	TRIP BLANK	WATER	3021-3041 ORCHARD PARK RD., ORCHARD PARK, NY	11/19/18 00:00	11/19/18



**Project Name:** 3021 ORCHARD PARK ROAD  
**Project Number:** 0010-001-001

**Lab Number:** L1847434  
**Report Date:** 11/30/18

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

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**Project Name:** 3021 ORCHARD PARK ROAD  
**Project Number:** 0010-001-001

**Lab Number:** L1847434  
**Report Date:** 11/30/18

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

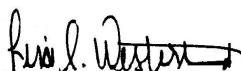
#### Dissolved Gases

L1847434-02 was collected in a pre-preserved vial; however, the pH of the sample was determined to be greater than two

L1847434-02: The sample was re-analyzed on dilution in order to quantify the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Lisa Westerlind

Title: Technical Director/Representative

Date: 11/30/18

# ORGANICS

# **VOLATILES**

**Project Name:** 3021 ORCHARD PARK ROAD**Lab Number:** L1847434**Project Number:** 0010-001-001**Report Date:** 11/30/18**SAMPLE RESULTS****Lab ID:** L1847434-01**Date Collected:** 11/19/18 11:10**Client ID:** MW-4A**Date Received:** 11/19/18**Sample Location:** 3021-3041 ORCHARD PARK RD., ORCHARD PARK, NY**Field Prep:** Not Specified**Sample Depth:****Matrix:** Water**Analytical Method:** 1,8260C**Analytical Date:** 11/29/18 10:37**Analyst:** NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** 3021 ORCHARD PARK ROAD**Lab Number:** L1847434**Project Number:** 0010-001-001**Report Date:** 11/30/18**SAMPLE RESULTS****Lab ID:** L1847434-01**Date Collected:** 11/19/18 11:10**Client ID:** MW-4A**Date Received:** 11/19/18**Sample Location:** 3021-3041 ORCHARD PARK RD., ORCHARD PARK, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 3021 ORCHARD PARK ROAD**Lab Number:** L1847434**Project Number:** 0010-001-001**Report Date:** 11/30/18**SAMPLE RESULTS****Lab ID:** L1847434-02**Date Collected:** 11/19/18 11:26**Client ID:** MW-6**Date Received:** 11/19/18**Sample Location:** 3021-3041 ORCHARD PARK RD., ORCHARD PARK, NY**Field Prep:** Not Specified**Sample Depth:****Matrix:** Water**Analytical Method:** 1,8260C**Analytical Date:** 11/28/18 11:42**Analyst:** AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.20	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.65		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1



**Project Name:** 3021 ORCHARD PARK ROAD**Lab Number:** L1847434**Project Number:** 0010-001-001**Report Date:** 11/30/18**SAMPLE RESULTS****Lab ID:** L1847434-02**Date Collected:** 11/19/18 11:26**Client ID:** MW-6**Date Received:** 11/19/18**Sample Location:** 3021-3041 ORCHARD PARK RD., ORCHARD PARK, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	0.96	J	ug/l	2.5	0.70	1
o-Xylene	0.78	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	0.80	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	18		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	2.3	J	ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

**Project Name:** 3021 ORCHARD PARK ROAD  
**Project Number:** 0010-001-001

**Lab Number:** L1847434  
**Report Date:** 11/30/18

**SAMPLE RESULTS**

**Lab ID:** L1847434-02  
**Client ID:** MW-6  
**Sample Location:** 3021-3041 ORCHARD PARK RD., ORCHARD PARK, NY

**Date Collected:** 11/19/18 11:26  
**Date Received:** 11/19/18  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 117,-  
**Analytical Date:** 11/21/18 14:04  
**Analyst:** AW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	13400	E	ug/l	1.00	1.00	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	0.614		ug/l	0.500	0.500	1	A

**Project Name:** 3021 ORCHARD PARK ROAD**Lab Number:** L1847434**Project Number:** 0010-001-001**Report Date:** 11/30/18**SAMPLE RESULTS**

Lab ID: L1847434-02 D

Date Collected: 11/19/18 11:26

Client ID: MW-6

Date Received: 11/19/18

Sample Location: 3021-3041 ORCHARD PARK RD., ORCHARD PARK, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 117,-

Analytical Date: 11/21/18 14:46

Analyst: AW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	10800		ug/l	5.00	5.00	5	A

**Project Name:** 3021 ORCHARD PARK ROAD**Lab Number:** L1847434**Project Number:** 0010-001-001**Report Date:** 11/30/18**SAMPLE RESULTS****Lab ID:** L1847434-03**Date Collected:** 11/19/18 00:00**Client ID:** TRIP BLANK**Date Received:** 11/19/18**Sample Location:** 3021-3041 ORCHARD PARK RD., ORCHARD PARK, NY**Field Prep:** Not Specified**Sample Depth:****Matrix:** Water**Analytical Method:** 1,8260C**Analytical Date:** 11/28/18 12:04**Analyst:** AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** 3021 ORCHARD PARK ROAD**Lab Number:** L1847434**Project Number:** 0010-001-001**Report Date:** 11/30/18**SAMPLE RESULTS****Lab ID:** L1847434-03**Date Collected:** 11/19/18 00:00**Client ID:** TRIP BLANK**Date Received:** 11/19/18**Sample Location:** 3021-3041 ORCHARD PARK RD., ORCHARD PARK, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 3021 ORCHARD PARK ROAD**Lab Number:** L1847434**Project Number:** 0010-001-001**Report Date:** 11/30/18**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 117,-  
Analytical Date: 11/21/18 08:37  
Analyst: AW

Parameter	Result	Qualifier	Units	RL	MDL
Dissolved Gases by GC - Mansfield Lab for sample(s): 02 Batch: WG1181756-3					
Methane	ND		ug/l	1.00	1.00 A
Ethene	ND		ug/l	0.500	0.500 A
Ethane	ND		ug/l	0.500	0.500 A

Project Name: 3021 ORCHARD PARK ROAD

Lab Number: L1847434

Project Number: 0010-001-001

Report Date: 11/30/18

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 11/28/18 08:26  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG1183415-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70



Project Name: 3021 ORCHARD PARK ROAD

Lab Number: L1847434

Project Number: 0010-001-001

Report Date: 11/30/18

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 11/28/18 08:26  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG1183415-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

**Project Name:** 3021 ORCHARD PARK ROAD**Lab Number:** L1847434**Project Number:** 0010-001-001**Report Date:** 11/30/18**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 11/28/18 08:26

Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG1183415-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: 3021 ORCHARD PARK ROAD

Lab Number: L1847434

Project Number: 0010-001-001

Report Date: 11/30/18

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 11/29/18 10:09  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1183948-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 3021 ORCHARD PARK ROAD

Lab Number: L1847434

Project Number: 0010-001-001

Report Date: 11/30/18

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 11/29/18 10:09  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1183948-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

**Project Name:** 3021 ORCHARD PARK ROAD**Lab Number:** L1847434**Project Number:** 0010-001-001**Report Date:** 11/30/18**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 11/29/18 10:09

Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1183948-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	97		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 3021 ORCHARD PARK ROAD

**Project Number:** 0010-001-001

**Lab Number:** L1847434

**Report Date:** 11/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 02 Batch: WG1181756-2									
Methane	100		-		80-120	-		25	A
Ethene	109		-		80-120	-		25	A
Ethane	109		-		80-120	-		25	A

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 3021 ORCHARD PARK ROAD

**Project Number:** 0010-001-001

**Lab Number:** L1847434

**Report Date:** 11/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1183415-3 WG1183415-4								
Methylene chloride	96		98		70-130	2		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	97		96		70-130	1		20
Carbon tetrachloride	88		86		63-132	2		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	94		92		63-130	2		20
1,1,2-Trichloroethane	100		98		70-130	2		20
Tetrachloroethene	89		83		70-130	7		20
Chlorobenzene	97		93		75-130	4		20
Trichlorofluoromethane	93		95		62-150	2		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	90		86		67-130	5		20
Bromodichloromethane	95		96		67-130	1		20
trans-1,3-Dichloropropene	92		88		70-130	4		20
cis-1,3-Dichloropropene	91		91		70-130	0		20
Bromoform	92		94		54-136	2		20
1,1,2,2-Tetrachloroethane	110		100		67-130	10		20
Benzene	95		95		70-130	0		20
Toluene	98		95		70-130	3		20
Ethylbenzene	100		96		70-130	4		20
Chloromethane	98		97		64-130	1		20
Bromomethane	80		84		39-139	5		20
Vinyl chloride	100		100		55-140	0		20



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 3021 ORCHARD PARK ROAD

**Project Number:** 0010-001-001

**Lab Number:** L1847434

**Report Date:** 11/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1183415-3 WG1183415-4								
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	93		91		61-145	2		20
trans-1,2-Dichloroethene	95		91		70-130	4		20
Trichloroethene	92		90		70-130	2		20
1,2-Dichlorobenzene	96		92		70-130	4		20
1,3-Dichlorobenzene	99		94		70-130	5		20
1,4-Dichlorobenzene	98		93		70-130	5		20
Methyl tert butyl ether	88		89		63-130	1		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	92		90		70-130	2		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	86		84		36-147	2		20
Acetone	100		90		58-148	11		20
Carbon disulfide	98		97		51-130	1		20
2-Butanone	92		96		63-138	4		20
4-Methyl-2-pentanone	92		91		59-130	1		20
2-Hexanone	94		89		57-130	5		20
Bromochloromethane	92		94		70-130	2		20
1,2-Dibromoethane	94		92		70-130	2		20
1,2-Dibromo-3-chloropropane	85		82		41-144	4		20
Isopropylbenzene	100		98		70-130	2		20
1,2,3-Trichlorobenzene	89		86		70-130	3		20

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** 3021 ORCHARD PARK ROAD

**Project Number:** 0010-001-001

**Lab Number:** L1847434

**Report Date:** 11/30/18

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1183415-3 WG1183415-4								
1,2,4-Trichlorobenzene	90		87		70-130	3		20
Methyl Acetate	96		94		70-130	2		20
Cyclohexane	99		97		70-130	2		20
1,4-Dioxane	132		128		56-162	3		20
Freon-113	91		92		70-130	1		20
Methyl cyclohexane	93		90		70-130	3		20

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,2-Dichloroethane-d4	107		108		70-130
Toluene-d8	104		101		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	97		96		70-130

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** 3021 ORCHARD PARK ROAD

**Project Number:** 0010-001-001

**Lab Number:** L1847434

**Report Date:** 11/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1183948-3 WG1183948-4								
Methylene chloride	98		98		70-130	0		20
1,1-Dichloroethane	100		97		70-130	3		20
Chloroform	100		99		70-130	1		20
Carbon tetrachloride	97		93		63-132	4		20
1,2-Dichloropropane	98		97		70-130	1		20
Dibromochloromethane	90		92		63-130	2		20
1,1,2-Trichloroethane	94		96		70-130	2		20
Tetrachloroethene	93		91		70-130	2		20
Chlorobenzene	96		94		75-130	2		20
Trichlorofluoromethane	96		93		62-150	3		20
1,2-Dichloroethane	97		98		70-130	1		20
1,1,1-Trichloroethane	98		96		67-130	2		20
Bromodichloromethane	94		93		67-130	1		20
trans-1,3-Dichloropropene	87		88		70-130	1		20
cis-1,3-Dichloropropene	95		96		70-130	1		20
Bromoform	82		85		54-136	4		20
1,1,2,2-Tetrachloroethane	92		94		67-130	2		20
Benzene	97		94		70-130	3		20
Toluene	94		93		70-130	1		20
Ethylbenzene	94		93		70-130	1		20
Chloromethane	90		84		64-130	7		20
Bromomethane	99		94		39-139	5		20
Vinyl chloride	110		100		55-140	10		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 3021 ORCHARD PARK ROAD

**Project Number:** 0010-001-001

**Lab Number:** L1847434

**Report Date:** 11/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1183948-3 WG1183948-4								
Chloroethane	120		110		55-138	9		20
1,1-Dichloroethene	98		95		61-145	3		20
trans-1,2-Dichloroethene	100		98		70-130	2		20
Trichloroethene	98		94		70-130	4		20
1,2-Dichlorobenzene	94		92		70-130	2		20
1,3-Dichlorobenzene	95		93		70-130	2		20
1,4-Dichlorobenzene	95		92		70-130	3		20
Methyl tert butyl ether	99		100		63-130	1		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		90		70-130	5		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	90		85		70-130	6		20
Dichlorodifluoromethane	84		81		36-147	4		20
Acetone	62		69		58-148	11		20
Carbon disulfide	98		94		51-130	4		20
2-Butanone	82		88		63-138	7		20
4-Methyl-2-pentanone	80		85		59-130	6		20
2-Hexanone	78		79		57-130	1		20
Bromochloromethane	100		100		70-130	0		20
1,2-Dibromoethane	89		92		70-130	3		20
1,2-Dibromo-3-chloropropane	84		86		41-144	2		20
Isopropylbenzene	95		90		70-130	5		20
1,2,3-Trichlorobenzene	94		91		70-130	3		20

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 3021 ORCHARD PARK ROAD

**Project Number:** 0010-001-001

**Lab Number:** L1847434

**Report Date:** 11/30/18

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1183948-3 WG1183948-4								
1,2,4-Trichlorobenzene	92		92		70-130	0		20
Methyl Acetate	88		95		70-130	8		20
Cyclohexane	98		94		70-130	4		20
1,4-Dioxane	74		90		56-162	20		20
Freon-113	98		94		70-130	4		20
Methyl cyclohexane	98		94		70-130	4		20

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,2-Dichloroethane-d4	96		96		70-130
Toluene-d8	96		95		70-130
4-Bromofluorobenzene	95		93		70-130
Dibromofluoromethane	99		100		70-130

## METALS

**Project Name:** 3021 ORCHARD PARK ROAD**Lab Number:** L1847434**Project Number:** 0010-001-001**Report Date:** 11/30/18**SAMPLE RESULTS**

Lab ID: L1847434-02

Date Collected: 11/19/18 11:26

Client ID: MW-6

Date Received: 11/19/18

Sample Location: 3021-3041 ORCHARD PARK RD., ORCHARD PARK, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Iron, Dissolved	33.4		mg/l	0.0750	0.0191	1	11/29/18 12:50	11/29/18 19:22	EPA 3005A	1,6020B	AM
Manganese, Dissolved	1.519		mg/l	0.00100	0.00044	1	11/29/18 12:50	11/29/18 19:22	EPA 3005A	1,6020B	AM



Project Name: 3021 ORCHARD PARK ROAD

Lab Number: L1847434

Project Number: 0010-001-001

Report Date: 11/30/18

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02 Batch: WG1183809-1										
Iron, Dissolved	0.0239	J	mg/l	0.0750	0.0191	1	11/29/18 12:50	11/29/18 18:49	1,6020B	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	11/29/18 12:50	11/29/18 18:49	1,6020B	AM

### Prep Information

Digestion Method: EPA 3005A



**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 3021 ORCHARD PARK ROAD**Project Number:** 0010-001-001**Lab Number:** L1847434**Report Date:** 11/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1183809-2								
Iron, Dissolved	118		-		80-120	-		
Manganese, Dissolved	113		-		80-120	-		

# **Matrix Spike Analysis** Batch Quality Control

**Project Name:** 3021 ORCHARD PARK ROAD

**Lab Number:** L1847434

**Project Number:** 0010-001-001

**Report Date:** 11/30/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1183809-3 QC Sample: L1847863-01 Client ID: MS Sample												
Iron, Dissolved	0.149	1	1.25	110		-	-		75-125	-		20
Manganese, Dissolved	1.428	0.5	2.036	122		-	-		75-125	-		20

# Lab Duplicate Analysis

*Batch Quality Control*

**Project Name:** 3021 ORCHARD PARK ROAD

**Project Number:** 0010-001-001

**Lab Number:** L1847434

**Report Date:** 11/30/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1183809-4 QC Sample: L1847863-01 Client ID: DUP Sample						
Iron, Dissolved	0.149	0.177	mg/l	17		20
Manganese, Dissolved	1.428	1.462	mg/l	2		20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** 3021 ORCHARD PARK ROAD**Project Number:** 0010-001-001**Lab Number:** L1847434**Report Date:** 11/30/18**SAMPLE RESULTS****Lab ID:** L1847434-02**Client ID:** MW-6**Sample Location:** 3021-3041 ORCHARD PARK RD., ORCHARD PARK, NY**Date Collected:** 11/19/18 11:26**Date Received:** 11/19/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.033	1	-	11/27/18 21:28	44,353.2	MR
Anions by Ion Chromatography - Westborough Lab										
Sulfate	ND		mg/l	1.00	0.160	1	-	11/26/18 21:39	44,300.0	JR



Project Name: 3021 ORCHARD PARK ROAD

Lab Number: L1847434

Project Number: 0010-001-001

Report Date: 11/30/18

### Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Anions by Ion Chromatography - Westborough Lab for sample(s): 02 Batch: WG1182718-1										
Sulfate	ND		mg/l	1.00	0.160	1	-	11/26/18 16:27	44,300.0	JR
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1183037-1										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.033	1	-	11/27/18 21:17	44,353.2	MR

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 3021 ORCHARD PARK ROAD**Project Number:** 0010-001-001**Lab Number:** L1847434**Report Date:** 11/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02 Batch: WG1182718-2								
Sulfate	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1183037-2								
Nitrogen, Nitrate/Nitrite	104		-		90-110	-		

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** 3021 ORCHARD PARK ROAD

**Lab Number:** L1847434

**Project Number:** 0010-001-001

**Report Date:** 11/30/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1182718-3 QC Sample: L1847312-01 Client ID: MS Sample												
Sulfate	196.	400	612	104		-	-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1183037-4 QC Sample: L1847352-02 Client ID: MS Sample												
Nitrogen, Nitrate/Nitrite	5.5	4	9.7	105		-	-		80-120	-		20



# Lab Duplicate Analysis

*Batch Quality Control*

**Project Name:** 3021 ORCHARD PARK ROAD

**Project Number:** 0010-001-001

**Lab Number:** L1847434

**Report Date:** 11/30/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1182718-4 QC Sample: L1847312-01 Client ID: DUP Sample						
Sulfate	196.	194	mg/l	1		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1183037-3 QC Sample: L1847352-02 Client ID: DUP Sample						
Nitrogen, Nitrate/Nitrite	5.5	5.5	mg/l	0		20

**Project Name:** 3021 ORCHARD PARK ROAD  
**Project Number:** 0010-001-001

Serial\_No:11301815:05  
**Lab Number:** L1847434  
**Report Date:** 11/30/18

**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

**Cooler**                      **Custody Seal**  
A                                  Absent

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1847434-01A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-R2(14)
L1847434-01B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-R2(14)
L1847434-01C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-R2(14)
L1847434-02A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-R2(14)
L1847434-02B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-R2(14)
L1847434-02C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-R2(14)
L1847434-02D	Plastic 60ml unpreserved	A	7	7	2.9	Y	Absent		SO4-300(28)
L1847434-02E	Plastic 250ml H2SO4 preserved	A	<2	<2	2.9	Y	Absent		NO3/NO2-353(28)
L1847434-02F	20ml Vial HCl preserved	A	NA		2.9	Y	Absent		DISSGAS(14)
L1847434-02G	20ml Vial HCl preserved	A	NA		2.9	Y	Absent		DISSGAS(14)
L1847434-02H	Plastic 250ml unpreserved	A	7	7	2.9	Y	Absent		-
L1847434-02Z	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.9	Y	Absent		MN-6020S(180),FE-6020S(180)
L1847434-03A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-R2(14)
L1847434-03B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-R2(14)

**Project Name:** 3021 ORCHARD PARK ROAD  
**Project Number:** 0010-001-001

**Lab Number:** L1847434  
**Report Date:** 11/30/18

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** 3021 ORCHARD PARK ROAD  
**Project Number:** 0010-001-001

**Lab Number:** L1847434  
**Report Date:** 11/30/18

#### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** 3021 ORCHARD PARK ROAD  
**Project Number:** 0010-001-001

**Lab Number:** L1847434  
**Report Date:** 11/30/18

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



**Alpha Analytical, Inc.**

ID No.:17873

Facility: **Company-wide**

Revision 12

Department: **Quality Assurance**

Published Date: 10/9/2018 4:58:19 PM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

**Certification Information**

The following analytes are not included in our Primary NELAP Scope of Accreditation:


**Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

**Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



 <b>NEW YORK CHAIN OF CUSTODY</b>		<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <div style="border: 1px solid black; padding: 2px; display: inline-block;">1 of 1</div>		Date Rec'd in Lab <span style="font-size: 1.2em;">11/20/18</span>		ALPHA Job # <span style="font-size: 1.2em;">L1847434</span>											
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		<b>Project Information</b> Project Name: <span style="font-size: 1.1em;">3021 Orchard Park Road</span> Project Location: <span style="font-size: 1.1em;">3021 - 3041 Orchard Park Rd, Orchard Park NY</span> Project # <span style="font-size: 1.1em;">0010-001-001</span>				<b>Deliverables</b> <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		<b>Billing Information</b> <input type="checkbox"/> Same as Client Info PO #									
<b>Client Information</b> Client: <span style="font-size: 1.1em;">Orion Env. Solutions, LLC</span> Address: <span style="font-size: 1.1em;">4535 Southwestern Blvd. Ste. 210, Hamburg, NY</span> Phone: <span style="font-size: 1.1em;">716.202.4475</span> Fax: Email: <span style="font-size: 1.1em;">bhanna@orionestllc.com</span>		(Use Project name as Project #) <input type="checkbox"/> Project Manager: <span style="font-size: 1.1em;">Bryan Hann</span> ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Rush (only if pre approved) <input type="checkbox"/> Due Date: # of Days:		<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge				<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:											
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: <span style="font-size: 1.1em;">* Diss. Gases: methane, ethane, ethene Diss Metals: Fe, Mn</span> Please specify Metals or TAL.				<b>ANALYSIS</b>				<b>Sample Filtration</b> <input type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do Preservation <input checked="" type="checkbox"/> Lab to do (Please Specify below)		Total Bottles									
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection		Sample Matrix		Sampler's Initials			<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TCL 8260</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Diss. Gas *</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">NO3/NO2</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SO4</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Diss. Metals *</div> </div>		Sample Specific Comments						
47434 - 01		MW-4A		11/19/18		11:10		GW			BCH		3						
- 02		MW-6		↓		11:26		↓			BCH		3		2		1		
- 03		Trip Blank		↓		—		↓			ACH		2		1		1		
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative												Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
				Relinquished By: <span style="font-size: 1.1em;">Bryan Hann</span> <span style="font-size: 1.1em;">Jack Merry 900</span>		Date/Time <span style="font-size: 1.1em;">11/19/18 14:55</span> <span style="font-size: 1.1em;">11/19/18 16:15</span>		Received By: <span style="font-size: 1.1em;">Jack Merry 900</span> <span style="font-size: 1.1em;">Drew M. Mac</span>		Date/Time <span style="font-size: 1.1em;">11/19/18 14:55</span> <span style="font-size: 1.1em;">11/20/18 01:15</span>									