Periodic Review Report June 1, 2019- June 1, 2020

Former Churchville Ford, Inc. Site
NYSDEC Voluntary Cleanup Program Site #V00658
Village of Churchville, Town of Riga, Monroe County, New York

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Executive Summary

The former Churchville Ford Site (hereinafter referred to as the "Site"), is located at 111 South Main Street in the Village of Churchville, Town of Riga, Monroe County, New York. The Site is approximately six (6) acres, and owned by BLW Properties of Churchville, LLC. It has been utilized as a commercial auto, boat and recreational vehicle sales and service facility. An environmental investigation conducted in 2002 (in conjunction with the transfer of ownership of property) identified groundwater and subsurface soil contamination. A remedial investigation (RI) was conducted between 2004 and 2008. This Periodic Review Report (PRR) covers Site monitoring and inspection events and activities conducted at the Site from June 1, 2019 - June 1, 2020.

The Site was remediated in accordance with and subject to a Voluntary Cleanup Agreement (VCA) # B8-0640-03-09, Site # V00658-8 which was executed on September 29, 2003 and amended on April 9, 2009. The VCA was initiated by former owners, Joseph Ognibene and Antonio Gabriele. Remedial activities occurred from May 2009 to January 2010 and were conducted in accordance with the Site Remedial Action Work Plan (RAWP), dated December 2008, and a minor modification, dated September 4, 2009. In-situ chemical oxidation (ISCO), using injected sodium permanganate (NaMnO₄), was initiated in June 2009 and completed in January 2010. NaMnO₄was injected into the soil and groundwater underlying the impacted area in the southwestern portion of the building. As detailed in the Site Management Plan (SMP), a Sub-Slab Depressurization System (SSDS) was installed in June 2011 in the western portion of the original building (workshop).

In September 2015, a Site Change of Use was approved by the NYSDEC for Site redevelopment activities. As part of the redevelopment, a series of pre-excavation notifications detailing soil sampling programs prior to soil excavation/disturbance were submitted to the NYSDEC in accordance to requirements set forth in the SMP and Excavation Work Plan (EWP). A remedial approach to address impacted subsurface soils beneath the western portion of the former building, the "Source Area," was also developed and approved by the NYSDEC in 2016. A Remedial Design Construction Completion Report (CCR) detailing all Site activities associated with the redevelopment was submitted to the NYSDEC.

The remedial approach included soil removal and ISCO (Regenesis, Inc. PersulfOx®) to address residual impacted groundwater. The effectiveness of ISCO is being evaluated through subsequent groundwater sampling as discussed in this report. The Site cap was restored upon completion of the project and was evaluated as part of the Site inspection.

The effectiveness of the remedial program as outlined in the SMP has been monitored through on-going groundwater sampling and Site Inspection with respect to Institutional and Engineering Controls (ICs/ECs). Post-remedial groundwater sampling results indicate that residual contamination appears to be attenuating in groundwater located in the vicinity of the established source area. It is likely that concentrations will continue declining due to the sustained oxidative action of PersulfOx®. Groundwater samples collected during the current reporting period (June 1, 2019 to June 1, 2020) showed concentrations of chlorinated volatile organic compounds (CVOCs), iron, and manganese exceeding applicable groundwater standards.

The implemented remedies to manage the residual contamination are effective, protective, and are progressing towards the remedial action objectives. The ICs/ECs and procedures outlined in the Monitoring Plan and Operation and Maintenance Plan were complied with during this reporting period.

1.0 Periodic Review Report

This Periodic Review Report (PRR) was prepared by Lu Engineers, on behalf of BLW Properties of Churchville, LLC, pursuant to NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, dated May, 2010 and the guidelines provided by the NYSDEC. The first PRR was required eighteen (18) months after the issuance of the Release and Covenant. The reporting period for this PRR is from June 1, 2018 to June 1, 2019. The following items are included in this PRR:

- Identification, assessment, and certification of each EC/IC required by the remedy for the Site.
- Results of the Site inspection and sampling events including applicable inspection forms and other records generated for the Site during the reporting period.
- A summary of any discharge monitoring data and/or information generated during the reporting period with comments and conclusions.
- Data summary tables of groundwater and surface water contaminants of concern by media.
 These include a presentation of past VOC and metal data as part of an evaluation of contaminant concentration trends.
- Laboratory analysis results and the required laboratory data deliverables for each sample collected during the reporting period have been and will continue to be submitted electronically in a NYSDEC-approved EQuIS format.
- A Site evaluation, which includes the following:
 - I. The compliance of the remedy with the requirements of the Site-specific Record of Decision (ROD);
 - II. The operation and the effectiveness of each treatment unit, including identification of any needed repairs or modifications;
 - III. Any new conclusions or observations regarding Site contamination based on inspection or lab data generated during the monitoring events;
 - IV. Recommendations regarding any necessary changes to the remedy and/or SMP; and
 - V. The overall performance and effectiveness of the remedy to date.

2.0 Site Overview

The former Churchville Ford Site, located at 111 South Main Street in the Village of Churchville, Town of Riga, Monroe County, New York, consists of approximately six (6) acres and has been used as a commercial auto, boat and recreational vehicle sales and service facility in recent years (Figure 1). The Site is located north of Interstate Route 490 and Sanford Road. The topography of the Site is relatively flat, however, the elevation drops abruptly towards Sanford Road to the south and gently westward.

The Site is surrounded by residential and commercial land to the north, South Main Street and residential housing to the east, Sanford Road and Interstate Route 490 to the south, and a commercial Camping World Recreational Vehicle sales facility to the west. The majority of the Site is covered with asphalt pavement and the Site sales/service building.

Contamination was found at the Site during an environmental investigation conducted in conjunction with a property transfer in 2002. A Remedial Investigation (RI) was conducted between 2004 and 2008.

Subsurface soil analytical results did not indicate VOCs, SVOCs, or metals above the Restricted Commercial Use Guidance Values (6 New York Codes, Rules, and Regulations (NYCRR) Part 375-6), therefore soil remediation was not required. CVOCs were detected in groundwater beneath the southwestern portion of the building at levels exceeding 6 NYCRR Part 703.5 Class GA drinking water standards. This area was formerly used for solvent and waste oil storage. The contamination appeared to be limited to the storage area and west of the western wall of the building. Based on the findings of the RI, remedial action was recommended to address chlorinated solvents detected in groundwater at levels exceeding applicable guidance criteria.

Remedial measures were completed at the Site between May 2009 and January 2010. In-Situ Chemical Oxidation (ISCO) using sodium permanganate (NaMnO₄) was implemented, and NaMnO₄ was injected into groundwater where CVOC concentrations exceeded 5 parts per billion (ppb) and 2 ppb for vinyl chloride.

NaMnO₄ is used as a chemical oxidant to treat organic compounds such as TCE, PCE, and other associated breakdown products in soil and groundwater. Contaminants are oxidized into relatively benign compounds, such as carbon dioxide (CO^2) and water (H_2O). NaMnO₄ was injected using a Geoprobe® GS2000 cart-mounted injection system and administered through a series of injection wells (primarily 4 to 11.5 feet with a maximum depth of 20 feet) to treat saturated soils as well as groundwater.

Soil vapor intrusion (SVI) sampling was conducted after the NaMnO₄ injection was completed to determine if additional vapor intrusion mitigation or long-term indoor air monitoring measures were needed. Based on the results and as described in the SMP, a SSDS was installed in June 2011 in the western portion of the original Site building. The presence of the SSDS precluded the need for monitoring of indoor air.

As part of Site redevelopment in 2016, a remedial approach to address impacted subsurface soils beneath the western portion of the former building, the "Source Area," was developed and approved by the NYSDEC in 2016. The Excavation Notification-Remedial Design, dated April 19, 2016, was submitted and approved by the NYSDEC, per requirements set forth in the SMP and EWP. Excavation oversight, existing utility protection, field screening and sampling along with community air monitoring were performed in accordance to the EWP.

Soil was removed from the source area and appropriately handled for off-Site disposal as non-hazardous waste to Mill Seat Landfill in Riga, New York. Soil designated as "clean" per 6 NYCRR Part 375 Unrestricted Reuse Criteria was used as clean cover soil in the property adjoining the VCP property as fill and Site grading material.

The remedial approach also involved the application of ISCO (PersulfOx®) to address residual impacted groundwater. The effectiveness of ISCO was evaluated through subsequent groundwater sampling completed in December 2017 and May 2018, as discussed in this report and in accordance to the SMP. Upon completion of ISCO application, the excavation area was backfilled with #2 crusher run, compliant with DER-10 Section 5.4(e), and the Site was regraded with a new asphalt cover in the location of the former building for use as a parking lot.

It is noted that due to the excavation activities, MW-03 was decommissioned pursuant to NYSDEC CP-43 and removed. This well was replaced with MW-03R following completion of source area soil removal. The locations of the monitoring wells were re-surveyed in December 2016 (refer to Figures 2, 3, and 4). The Cap was fully restored upon completion of Site regrading and excavation work.

A SSDS was not installed in the newly constructed building, therefore, an SVI Corrective Measures Plan was implemented following the completion of building construction and contaminant source removal in 2016. Two (2) rounds of SVI sampling to assess the sub-slab and interior air quality were completed in July 2016 and December 2016, pursuant to the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006. The second round was completed during the heating season due to the pressure differential associated with typical building heating systems. SVI analytical results indicate the presence of Site contaminants below New York State Department of Health (NYSDOH) guidelines.

The effectiveness of the remedial program as outlined in the SMP has been monitored through 2016 SVI sampling in the recently constructed building and on-going groundwater sampling. In general, post-remedial groundwater sampling results indicate that the existing contamination persist, but also appears to be attenuating in groundwater in the source area. Groundwater samples collected during this reporting period (June 1, 2019 to June 1, 2020) showed concentrations of chlorinated volatile organic compounds (CVOCs) exceeding applicable groundwater standards.

The SMP requires an Institutional Control (IC) in the form a Deed Restriction (DR) which requires the following; a) limiting the use and development of the property to commercial use, which also permits industrial use; b) compliance with the approved SMP; c) restriction on the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH); and d) the property owner to complete and submit an annual certification of Institutional and Engineering Controls (ICs/ECs).

Long-term management of remaining contamination, as required by the DR, includes the following plans for ECs; 1) Monitoring; 2) Operation and maintenance; and 3) Reporting. The specific ECs implemented at the Site include: a) groundwater sampling every 5th quarter of monitoring wells MW-3R, MW-6, MW-13, and MW-JCL-02 for VOCs, iron and manganese; b) management and inspection of the existing soil cover system (the cap); and c) inspection and maintenance (if required) of the existing retaining wall.

3.0 Remedy Performance, Effectiveness, and Protectiveness

The most recent ISCO application (PersulfOx®) occurred in 2016 and prior to 2016, the last remedial ISCO injection occurred on January 15, 2010 by Lu Engineers using NaMNO₄. Post-remedial groundwater and SVI sampling indicate that groundwater contamination remains in the source area with evidence of attenuation, as suggested by analytical data. Thirteen (13) post-remedial groundwater sampling events and three (3) SVI sampling events have been conducted at the Site since the completion of the NaMnO₄ ISCO program. All sampling events were conducted in accordance with and as outlined in the RAWP and SMP. The following is a list of all post-remedial groundwater and SVI sampling events:

- February and August 2010 (per RAWP)
- December 2011 (per SMP)
- June and November 2012 (per SMP)
- June and November 2013 (per SMP)
- June 2014 (per SMP)



- November 2014 (per SMP)
- June 2015 (per SMP)
- November 2015 (per SMP)
- July 2016 (per SVI Corrective Measures Plan)
- December 2016 (per SMP and SVI Corrective Measures Plan)
- May 2017 (per SMP)
- December 2017 (per SMP)
- May 2018 (per SMP)
- July 2019 (per SMP)*
- September 2019 (per SMP)

*The NYSDEC approved the request to complete groundwater sampling and inspections every fifth quarter in a letter dated September 5, 2018.

Tables 1 and 2, included as an attachment to this report, indicate bi-annual VOC and iron and manganese sample concentrations since June 2012 following implementation of the remedies described in the SMP. Table 1 shows detected VOC concentrations in groundwater samples compared to the applicable NYSDEC 6 NYCRR Part 703.5 Class GA and TOGs 1.1.1 Groundwater Standards. Table 2 shows detected concentrations of iron and manganese, known indicators of natural attenuation, in comparison to applicable groundwater standards. Both tables include a trend analysis graph of contaminant concentration in groundwater since June 2012.

Groundwater collected from MW-06 and MW-JCL-02 continues to exceed applicable groundwater standards through the most recent sampling event conducted in September 2019. MW-13 indicated slight exceedances which have not been detected in previous sampling periods.

The ICs established for the Site have been and continue to be in compliance with the SMP. Though residual contamination exists in the groundwater following source area soil removal, these controls reduce the potential for human exposure. The ECs established for the Site are also effective in limiting the potential for human exposure to known Site contaminants.

4.0 Institutional Controls/Engineering Control Plan Compliance

Since remaining contaminated soil, groundwater, and soil vapor exists beneath the Site, ICs/ECs are required to protect public health and the environment. The IC/EC Plan is one (1) component of the SMP and is subject to revision by NYSDEC.

<u>Institutional Controls (ICs)</u>

A series of ICs are required by the SMP to: (1) implement, maintain and monitor EC systems; (2) prevent exposure to remaining contamination by controlling disturbances of the subsurface contamination; and (3) limit the use and development of the Site to commercial and industrial uses only. Adherence to these ICs on the Site is required by the DR and implemented under the SMP.

• <u>Land Use Restriction</u> – Site property use is limited to Commercial and Industrial uses only; the Site is currently used as a commercial recreational vehicle sales and service facility and has met the requirements of this restriction throughout this reporting period.

- <u>Groundwater Use Restriction</u> Use of groundwater as a potable or process water source is prohibited; the Site is currently connected to a supplied potable water source from the Village of Churchville and does not use the Site groundwater.
- <u>Site Management Plan (SMP)</u> Compliance with the SMP is required, including required periodic certifications; the Site was in compliance with all components of the Site-specific SMP throughout this reporting period.

Additional Site restrictions that apply to the Controlled Property are:

- The property may not be used for a higher level of use, without additional remediation and amendment of the DR, as approved by the NYSDEC;
- All future activities on the property that will disturb residual impacted material must be conducted in accordance with the SMP;
- The potential for vapor intrusion must be evaluated for any buildings developed on the Site, any potential impacts that are identified must be monitored or mitigated;
- 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 may allow and will be made by an
 expert that the NYSDEC finds acceptable.

Institutional Controls identified in the DR may not be discontinued without an amendment to or extinguishment of the DR.

Engineering Controls (ECs)

• <u>Soil Cover System (Cap)</u> – Exposure to residual contamination in subsurface soil/fill, groundwater and soil vapor at the Site is prevented by a soil cover system placed over the Site (the "Cap"). This cover system consists of asphalt pavement, concrete-covered sidewalks, and concrete building slabs. Procedures for maintaining the Cap are documented in the Operation and Maintenance Plan in Section 4 of the SMP.

The Excavation Work Plan (EWP) in Appendix A of the SMP outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying residual contamination is disturbed. Procedures for the inspection, maintenance and monitoring of this cover are provided in the Monitoring Plan included in Section 3 of the SMP.

Per NYSDEC and NYSDOH determination, in a letter dated May 15, 2017, a SSDS is not required for the building located at the site, and no additional SVI testing is planned.

The required IC/EC certification has been completed as a component of this report and a copy is included as Attachment D.

5.0 Monitoring Plan Compliance Report

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the soil cover system, and all affected Site media are identified in the table below.

Monitoring/Inspection Schedule

Monitoring Program	Frequency*	Matrix	Analysis
1	Every fifth quarter	Groundwater	EPA Method 8260, EPA 6010(Manganese and Iron)
2	N/A	SSDS	N/A
3	Every fifth quarter	Soil Cover	N/A

^{*} The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH

Monitoring activities completed during this reporting period (June 1, 2019 - June 1, 2020) included the following:

- Groundwater sampling of Site wells MW-03R, MW-JCL-02, MW-06, and MW-13 every 5th quarter; and
- Inspection of the Site soil cover system every 5th quarter

Groundwater Sampling

The following table summarizes the details of the groundwater sampling program to be completed during each bi-annual sampling event.

Media Sampling and Analysis Summary

Sample Type	Sample Location	Analytical Parameters	Frequency	QA/QC	Total
Groundwater	MW-03R, 06, 13, MW-JCL-02	EPA 8260, EPA 6010 (Manganese and Iron)	Every fifth quarter	Trip Blank (1)	5

The Site wells, formerly sampled bi-annually, are sampled with dedicated bailers per the procedures outlined in the SMP. NYSDEC approval for a reduced sampling frequency (every fifth quarter) was received in September 2018. Each well was purged a minimum of three (3) well volumes prior to sampling. Groundwater quality measurements including temperature, turbidity, pH, conductivity and oxidation reduction potential (ORP) were collected during the purging process at the corresponding well. No odors were observed during the groundwater sampling and water was generally turbid. Purge water from each well was containerized in steel 55-gallon drums.

At each well, samples were collected for TCL VOCs (EPA Method 8260B), iron and manganese (EPA Method 6010C). Groundwater sampling logs are included as Attachment B of this report.

Groundwater analytical results are summarized in Tables 1 and 2 and depicted in Figure 2. Table 1 presents the analytical results of VOCs detected in groundwater from June 2012 through September 2019 in comparison to applicable standards. Table 2 presents the analytical results of iron and manganese (natural attenuation indicators) from June 2012 through September 2019. Both tables include a trend analysis graph of the analytical data. Figure 2 illustrates the detected VOCs concentrations in groundwater that exceeded applicable standards for September 2019, and illustrates groundwater elevation contours based on water level measurements collected at each well during each sampling event. It is noted that groundwater generally flows south and west across the Site, following Site topography.

For comparison and future reference, the following sections summarize the analytical results since 2014.

2014

From June 2014 to November 2014, CVOC concentrations fluctuated and continued to exceed applicable groundwater standards in all monitoring wells. There was a general decline in concentration levels of PCE, TCE, and cis-1,2-DCE in MW-03 and MW-JCL-02. In MW-06, the PCE concentration level increased and dichlorodifluoromethane was detected for the first time since the June 2012 sampling event. Iron and manganese concentrations increased in MW-03 and MW-06 and decreased in MW-JCL-02. Concentration levels of these metals exceeded groundwater standards except for iron in MW-JCL-02.

2015

CVOC concentrations continued to fluctuate between July 2014 and July 2015. In MW-03, PCE and cis-1,2-DCE concentrations decreased and TCE slightly increased. Dichlorodifluoromethane concentrations increased and PCE concentrations decreased in MW-06. Chloroform and TCE were also detected for the first time in MW-06 since semi-annual groundwater monitoring began in 2012. MW-JCL-02 had increases in cis-1,2-DCE, TCE, and PCE. Dichlorodifluoromethane was detected for the first time since the June 2012 sampling event in MW-JCL-02 as well. Between June 2015 and November 2015, contaminant concentrations remained relatively constant in MW-03 and MW-06. PCE decreased in MW-03 and slightly increased in MW-06. Cis-1,2-DCE also decreased in MW-03. In JCL-02, dichlorodifluoromethane was not detected and concentrations of PCE, TCE, and 1,2-DCE declined. Consistent with previous years, no VOCs were detected in MW-13. All four (4) wells had increased concentrations of iron and manganese with the exception of manganese in MW-06. All concentrations of iron and manganese exceeded NYS groundwater standards for this period.

2016 - May 2017

From November 2015 to December 2016, CVOC concentrations generally declined as indicated by analytical results from MW-JCL-02 and MW-06. MW-03 was decommissioned and removed during the source area soil removal in 2016 and replaced with MW-03R, installed on September 12, 2016. No CVOC concentration exceedances were detected in MW-03R in December 2016 or May 2017. It is noted that the ISCO agent, PersulfOx®, was installed into the excavation following source area removal as approved by the NYSDEC in the Excavation Notification- Remedial Design, dated April 19, 2016.

Presumably, CVOC reductions observed can be attributed to the installation of the oxidizing agent. Significant reductions in PCE, TCE, and cis-1,2-DCE were observed in MW-JCL-02 between December 2016 and May 2017, as shown on Table 1. A slight increase in PCE and dichlorodifluoromethane occurred in MW-06 between December 2016 and May 2017. No VOCs were detected in MW-13, as found in previous years.

As shown on Table 2, iron and manganese concentrations fluctuated from December 2016-May 2017. Overall, iron concentrations appeared to increase from November 2015 to May 2017 in three (3) of the monitoring wells. A notable increase in manganese and iron was noted between December 2016 and May 2017 in MW-06. A significant rise in iron was also observed in MW-JCL-02 between December 2016 and May 2017.

Concentrations of CVOCs in the source area exceeded applicable groundwater standards. With the exception of MW-06, an overall decline in the concentrations of CVOCs was observed.

June 2017 - June 2018

From June 2017 to June 2018, CVOC concentrations generally declined as indicated by the analytical results from MW-JCL-02, and MW-06. No CVOC concentration exceedances were detected in MW-03R in December 2017 or May 2018. This reduction in CVOC concentration is attributed to the introduction of the ISCO agent, PersulfOx®, administered in the excavation following source area removal and natural attenuation in April 2016.

As shown in Table 1 iron and manganese concentrations fluctuated from December 2017 to May 2018. Overall, iron concentrations generally appeared to increase from 2014 to June 2018 in four (4) of the monitoring wells. An increase in iron concentration was observed in MW-03R and MW-JCL-02 from June 2017 to June 2018. An increase in manganese was noted in MW-03R, MW-06 and MW-JCL-02 during the reporting period. Iron and manganese serve as alternate electron acceptors for microbial respiration in the absence of oxygen and nitrate. An increase in dissolved or total manganese and iron indicates that the groundwater environment is sufficiently reducing to sustain Mn and FE reduction and for anaerobic dechlorination to occur (ITRC. 2008. In Situ Bioremediation of Chlorinated Ethene: DNAPL Source Zones. Interstate Technology and Regulatory Council).

June 2018 - June 2019

No groundwater sampling was completed as part of this reporting period. The NYSDEC approved a reduced groundwater frequency sampling schedule to every fifth quarter. The most recent groundwater sampling event was completed in June 2018 (refer to June 2017- June 2018 result summary), the next sampling event will be completed in the fourth quarter of 2020 (October, November, December).

June 2019 - June 2020

Concentrations of both iron and manganese decreased at all monitoring wells during the current sampling period in comparison to May 2018 sampling, but continue to exceed applicable groundwater guidance values.

Dichlorodifluoromethane levels increased slightly in all monitoring wells and exceedances were observed in monitoring wells MW-03R, MW-13, and MW-JCL-02. MW-13 was observed to have an increase in cis-1,2-dichloroethene in comparison to May 2018 sampling, as well as exceedances in dichlorodifluoromethane and 1,1-dichloroethane not observed in previous sampling rounds. As indicated by the following table, groundwater elevations were generally lower in the September 2019 sampling event compared to 2018, which is considered a contributing factor in the somewhat elevated data observed relative to MW-13 and MW-03R. It is noted that tetrachloroethene was not detected in MW-13.

Groundwater Elevation Comparison

Monitoring Well	PVC Elevation	December 2018	May 2018	September 2019
MW-3R	588.30	586.00	587.00	585.70
MW-06	591.73	586.00	586.34	588.43
MW-13	591.08	584.84	586.83	587.28
MW-JCL-02	591.51	585.88	588.47	588.21

^{*}All values presented in feet

Concentrations of dichlorodifluoromethane, trichloroethene, trans-1,2-dichloroethene, and tetrachloroethene continue to fluctuate and exceed applicable groundwater guidance values in monitoring well MW-JCL-02. Overall, concentrations of tetrachloroethene, the parent constituent of concern for this Site, have continued to decrease in each well, consistent with the continued natural attenuation of this chemical.

All laboratory analytical data is included as Attachment C of this report. Samples were analyzed at Paradigm Environmental Services, Inc., a NYSDOH ELAP-CLP certified laboratory (ELAP) located in Rochester, New York. All sampling methods and QA/QC measures were adhered to as outlined in the approved SMP. Sample data has been uploaded to the NYSDEC EQuIS, as required.

6.0 Operation and Maintenance Plan Compliance Report

ECs in place at the Site include the building floor slab, sidewalks and asphalt pavement, collectively referred to as the "Cap" or soil cover system, as well as the retaining wall. During this reporting period, operation and maintenance is limited to periodic inspection of the Cap, which is documented using the Site Inspection Form. Copies of the Site Inspection Form are included as Attachment A in this report. The Operation and Maintenance Plan located in the SMP describes the measures necessary to operate, monitor and maintain the mechanical components of the remedy selected for the Site.

7.0 Conclusions and Recommendations

IC/EC Compliance

The requirements and regulations set forth in the SMP for ICs were complied with during this reporting period. This includes the following:

<u>Land Use Restriction</u> – The Site is currently used as a commercial recreational vehicle sales and service facility and the requirements of this restriction has been met during this reporting period.

<u>Groundwater Use Restriction</u> – The Site is currently connected to a supplied potable water source and does not use Site groundwater in any capacity, therefore meeting the requirements of this restriction in this reporting period.

<u>Site Management Plan (SMP)</u> – The Site is currently in compliance with all components of the Site-specific SMP and all requirements have been met during this reporting period.

The requirements set forth in the SMP for all ECs were met during this reporting period. This includes the following:

<u>Soil Cover System (Cap)</u> – The Site Cap was in compliance with the SMP during this reporting period. Following asphalt replacement per the provisions outlined in the SMP in 2013 as well as Cap restoration following redevelopment activities in 2016, the Cap met and continues to meet the necessary compliance requirements. The retaining wall, as part of the cover system, is also in compliance with all components of the Site-specific SMP. All requirements have been met during this reporting period.

Based on post-remedial groundwater and SVI sampling conducted to date, residual groundwater, and soil contamination persists, but appears to be attenuating as indicated by the overall continued decrease in tetrachloroethene concentrations. The previously discussed Site-specific ICs and ECs for the Site continue to meet the remedial objectives while establishing protection of public health and the environment. The continued effectiveness of the ICs/ECs have allowed the remedial objectives at the Site to be met for this reporting period.

It is recommended that well sampling and analysis is conducted consistent with the approved SMP and that the next PRR be submitted approximately one (1) year from submittal of this PRR.

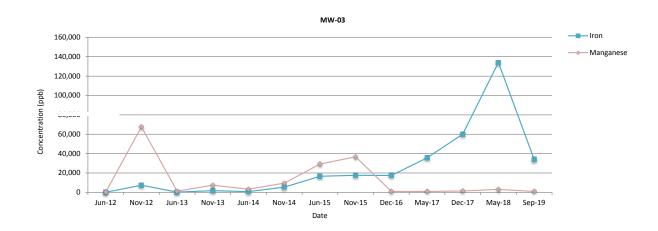


Table 1 Groundwater Results - Metals

Analytical	Groundwater				MV	V-03						MW-03R		
1 1	Standard ²				Post-Rer	mediation								
Parameters*	Standard	Jun-12	Nov-12	Jun-13	Nov-13	Jun-14	Nov-15	Dec-16	May-17	Dec-17	May-18	Sep-19		
EPA 6010-Metals	010-Metals													
Iron	300**	134	7,370	229	1,740	789	17,700	17,400	35,600	60,000	134,000	33,800		
Manganese	300**	293	67,600	1,250	7,350	3,350	36,800	913	1,030	1,530	3,030	1,020		

Detected above NYS Ambient Groundwater Standard or applicable NYSDEC Guidance Value

 $^{**:} Sum \ total \ concentration \ of \ Iron \ and \ Manganese \ standard \ is \ 500 \ ug/L \ per \ NYSDEC \ Part \ 703.5 \ Class \ GA \ groundwater \ standards$





^{1:} Results presented in µg/L (micrograms per liter) and/or ppb (parts per billion)

^{2: 6}NYCRR Part 703.5 NYS Abient Groundwater Quality Standards

Table 1 Groundwater Results - Metals

Analytical	Groundwater						P	MW-06 ost-Remediation	on					
Parameters*	Standard ²	Jun-12	Nov-12 Jun-13 Nov-13 Dec-11 Nov-14 Jun-15 Nov-15 Dec-16 May-17 Dec-17 May-18 Sep-19											
EPA 6010-Metals														
Iron	300**	360	360 378 1,340 1,110 3,510 5,830 27,700 32,700 6,990 47,200 20,500 23,100 13,500											
Manganese	300**	1,290	920	1,940	1,470	146	8,840	18,200	14,900	4,910	20,700	7,330	13,300	5,760

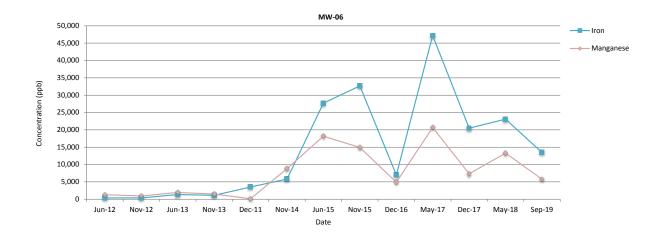


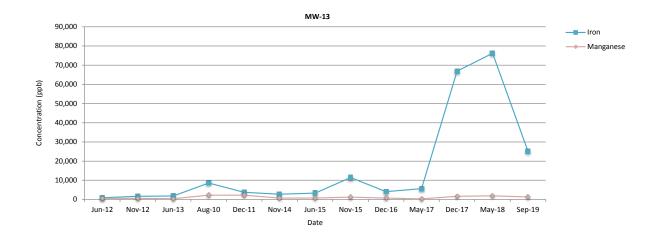


Table 1 Groundwater Results - Metals

Analytical	Groundwater						P	MW-13 ost-Remediation	on						
Parameters*	Standard ²	Jun-12	Nov-12 Jun-13 Aug-10 Dec-11 Nov-14 Jun-15 Nov-15 Dec-16 May-17 Dec-17 May-18 Sep-19												
EPA 6010-Metals															
Iron	300**	875	1,670	1,800	8,610	3,740	2,710	3,340	11,400	4,060	5,630	66,900	76,200	25,200	
Manganese	300**	606	576	411	2,260	2,260	738	699	1,240	777	327	1,690	1,930	1,350	

Detected above NYS Ambient Groundwater Standard or applicable NYSDEC Guidance Value

^{**:} Sum total concentration of Iron and Manganese standard is 500 ug/L per NYSDEC Part 703.5 Class GA groundwater standards





^{1:} Results presented in µg/L (micrograms per liter) and/or ppb (parts per billion)

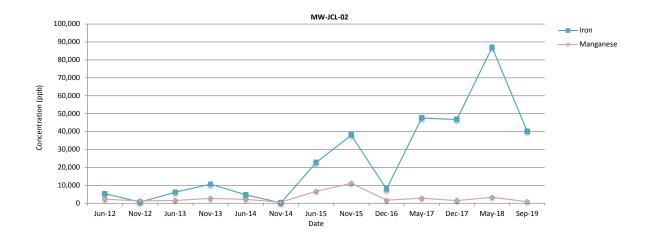
^{2: 6}NYCRR Part 703.5 NYS Abient Groundwater Quality Standards

Table 1 Groundwater Results - Metals

Table I Glouliuwate	i Results - Wietais														
Analytical	Groundwater							MW-JCL-02							
	3						P	ost-Remediatio	on						
Parameters*	Standard ²	Jun-12	.2 Nov-12 Jun-13 Nov-13 Jun-14 Nov-14 Jun-15 Nov-15 Dec-16 May-17 Dec-17 May-18 Sep-19												
EPA 6010-Metals	-														
Iron	300**	5,250	250 611 6,140 10,600 4,630 195 22,700 38,000 7,860 47,500 46,700 87,000 40,000												
Manganese	300**	2,260	1,290	1,580	2,710	2,190	557	6,650	11,100	1,740	2,780	1,490	3,350	838	

Detected above NYS Ambient Groundwater Standard or applicable NYSDEC Guidance Value

 $^{**:} Sum \ total \ concentration \ of \ Iron \ and \ Manganese \ standard \ is \ 500 \ ug/L \ per \ NYSDEC \ Part \ 703.5 \ Class \ GA \ groundwater \ standards$





^{1:} Results presented in µg/L (micrograms per liter) and/or ppb (parts per billion)

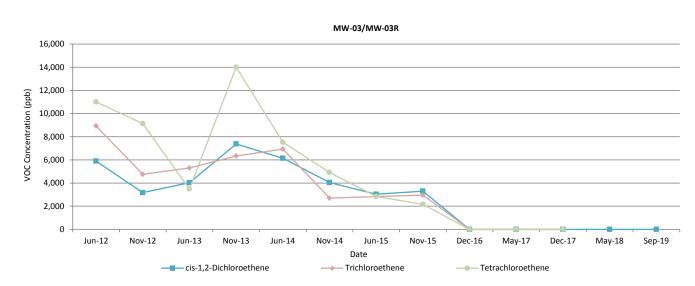
^{2: 6}NYCRR Part 703.5 NYS Abient Groundwater Quality Standards

Table 2 Groundwater Results - CVOCs/VOCs

	AIVC Commentered				MV	V-03						MW-03R		
Detected Parameters ¹	NYS Groundwater Standard ²				Post-Ren	nediation								
	Standard	Jun-12	Nov-12	Jun-13	Nov-13	Jun-14	Nov-14	Jun-15	Nov-15	Dec-16	May-17	Dec-17	May-18	Sep-19
Acetone	50*	ND	ND	2270	1,200 B	ND	ND	ND	ND	14.9	7.99 J	ND	6.57 J	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	0.510 J	ND	ND	ND	0.621
Methylene Chloride	5	ND	995 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	1.49	ND	2.64	2.1	5.11
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-Tert-Butyl Ether	10*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	11,000	9,140	3480	14,000	7,530	4,920	2,840	2,170	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	8,940	4,760	5300	6,340	6,930	2,700	2,830	2,960	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	5,900	3,170	4030	7,380	6,150	4,040	3,030	3,300	ND	ND	ND	ND	ND

Detected above NYS Ambient Groundwater Standard or applicable NYSDEC Guidance Value

J: Value is estimated



^{1:} Results presented in µg/L (micrograms per liter) and/or ppb (parts per billion)

^{2: 6}NYCRR Part 703.5 NYS Abient Groundwater Quality Standards

^{*:} NYSDEC Guidance Value

Table 2 Groundwater Results - CVOCs/VOCs

	NIVE Commentered						MW-	-06					
Detected Parameters ¹	NYS Groundwater Standard ²						Post-Rem	ediation					
	Standard	Jun-12	Nov-12	Jun-13	Nov-13	Nov-14	Jun-15	Nov-15	Dec-16	May-17	Dec-17	May-18	Sep-19
Acetone	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	2.92	2.91	1.59	ND	1.03	ND	ND
Chloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	17.4	1.75 J	3.59	3.15	6.11	19.3	11.3	6.8	10.1	8.3	2.1	4.35
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-Tert-Butyl Ether	10*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	14.7	8.51	8.89	11.9	12.8	10.1	12.1	14.5	18.6	22.2	11.9	11.1
trans-1,2-Dichloroethene	5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	2.22	1.92 J	1.5 J	1.78 J	ND	1.94	2.06	2.14	1.88 J	2.73	1.26	1.26
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Detected above NYS Ambient Groundwater Standard or applicable NYSDEC Guidance Value

1: Results presented in $\mu g/L$ (micrograms per liter) and/or ppb (parts per billion)

2: 6NYCRR Part 703.5 NYS Abient Groundwater Quality Standards

*: NYSDEC Guidance Value

J: Value is estimated

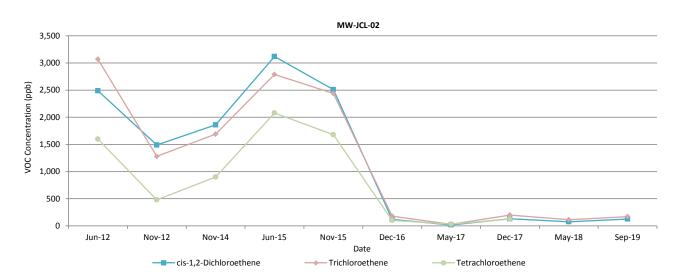


Table 2 Groundwater Results - CVOCs/VOCs

	NIVC Comments of the						MW-13					
Detected Parameters ¹	NYS Groundwater Standard ²					P	ost-Remediati	on				
	Standard	Jun-12	Nov-12	Jun-13	Nov-14	Jun-15	Nov-15	Dec-16	May-17	Dec-17	May-18	Sep-19
Acetone	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.25
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.34
Methyl-Tert-Butyl Ether	10*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.54	399

Detected above NYS Ambient Groundwater Standard or applicable NYSDEC Guidance Value

^{1:} Results presented in µg/L (micrograms per liter) and/or ppb (parts per billion)

^{2: 6}NYCRR Part 703.5 NYS Abient Groundwater Quality Standards

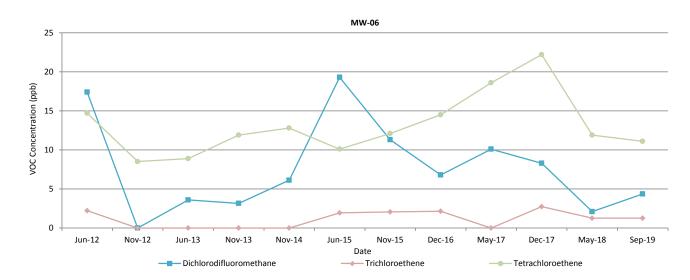
^{*:} NYSDEC Guidance Value

J: Value is estimated

Table 2 Groundwater Results - CVOCs/VOCs

	NVC Cucundurator					MW	-JCL-02				
Detected Parameters ¹	NYS Groundwater Standard ²					Post- Re	mediation				
	Stalluaru	Jun-12	Nov-12	Nov-14	Jun-15	Nov-15	Dec-16	May-17	Dec-17	May-18	Sep-19
Acetone	50*	ND	ND	ND	ND	ND	13.0	21.1	206	96.6	11.3
Benzene	1	ND	ND	ND	ND	ND	0.738	ND	7.38	2.96	1.79
Methylene Chloride	5	ND	118 J	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	ND	ND	ND	ND	1.14 J	2.27	1.28 J	1.44
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	-	ND	ND	ND	ND	ND	1.76	1.51 J	35.3	9.1	ND
Dichlorodifluoromethane	5	90 J	ND	ND	68.5 J	ND	2.91	ND	23.7	3.68	18.3
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-Tert-Butyl Ether	10*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	1,600	480	900	2,080	1,680	102	32.2	127	43.1	14.4
trans-1,2-Dichloroethene	5*	ND	ND	ND	ND	ND	3.45	1.23 J	5.7	ND	5.22
Trichloroethene	5	3,070	1,280	1,690	2,790	2,440	180	28.8	200	114	171
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	2,490	1,490	1,860	3,120	2,510	121	17.8	130	76.7	127

Detected above NYS Ambient Groundwater Standard or applicable NYSDEC Guidance Value



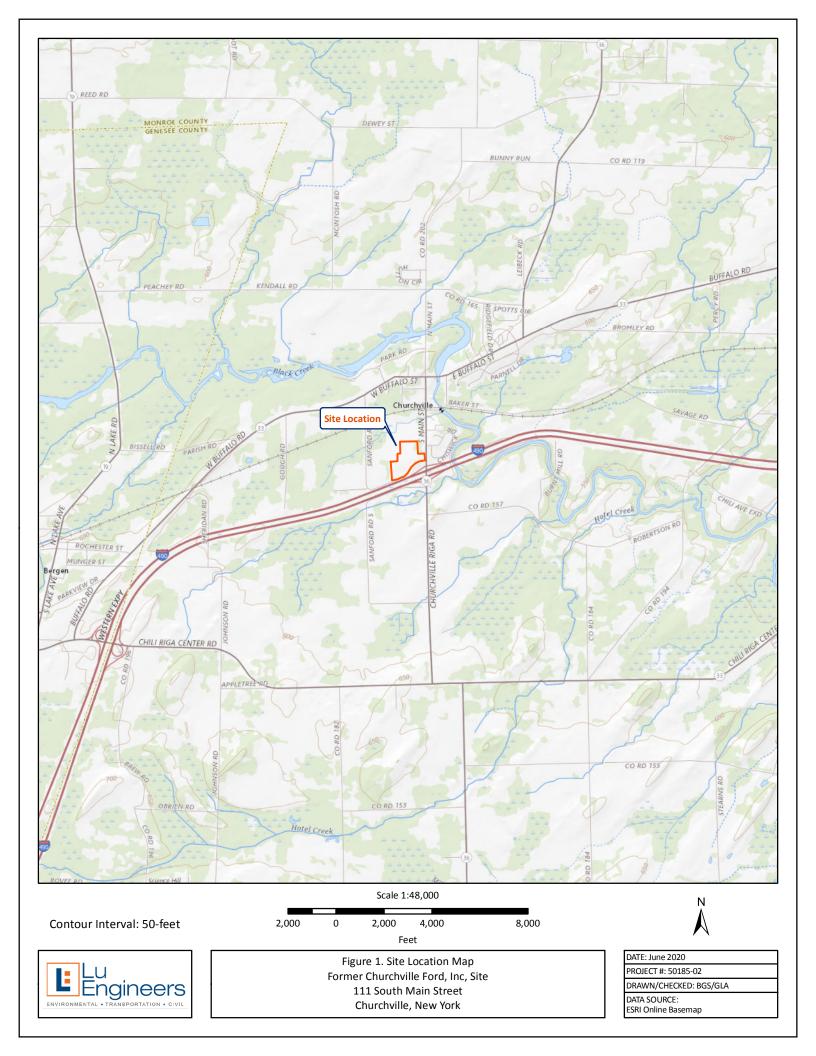
^{1:} Results presented in µg/L (micrograms per liter) and/or ppb (parts per billion)

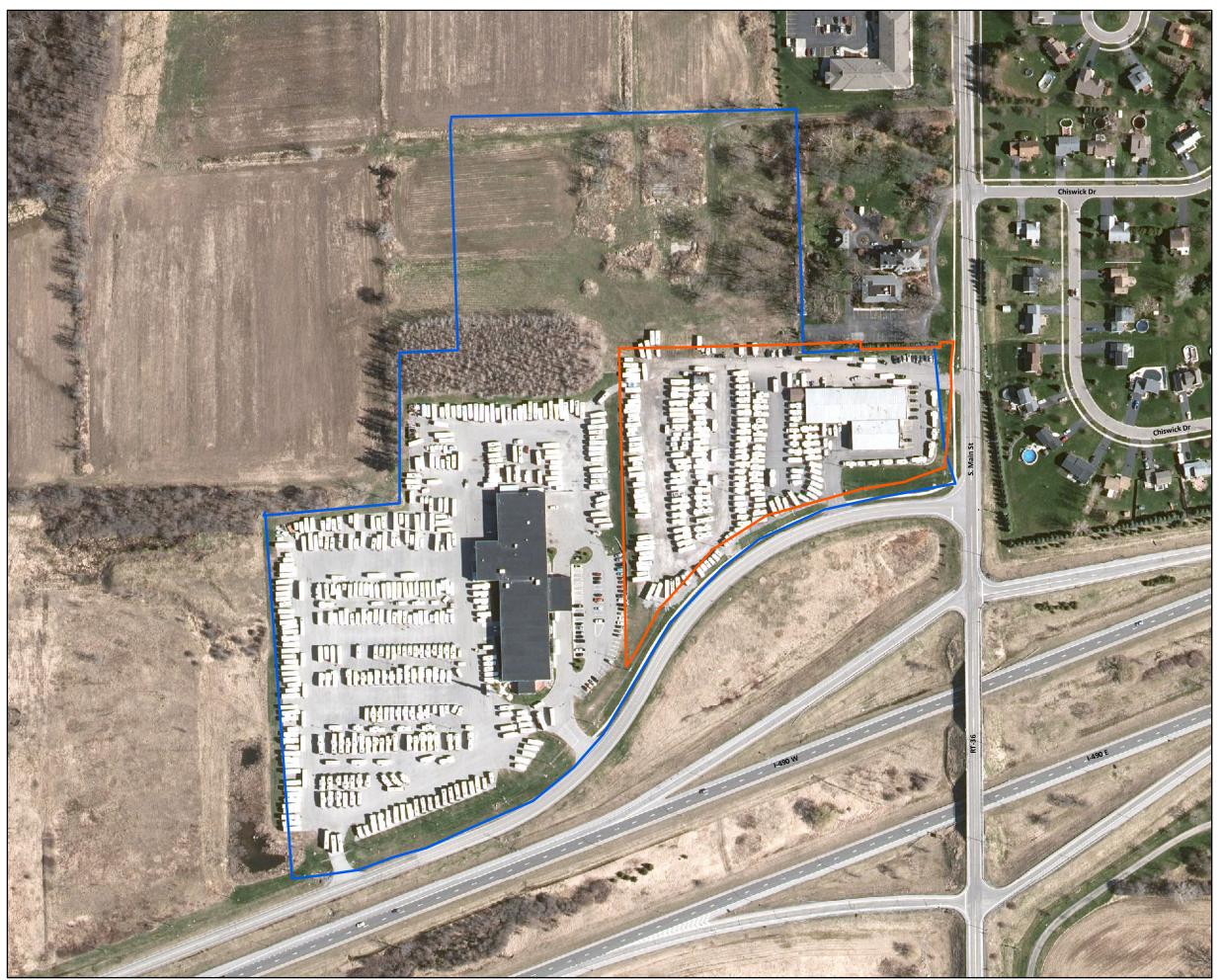
^{2: 6}NYCRR Part 703.5 NYS Abient Groundwater Quality Standards

^{*:} NYSDEC Guidance Value

J: Value is estimated









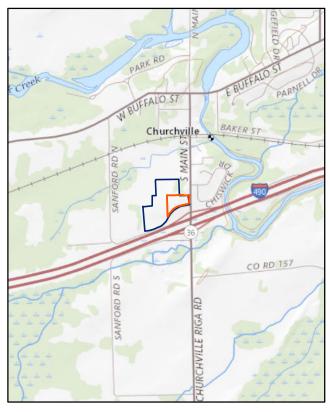


Figure 2: Site Plan

Project:

Former Churchville Ford Site Periodic Review Report 2019-2020

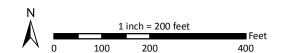
Location:

111 South Main Street Town of Riga, Monroe County, NY

Legend

Property Boundary

VCP Site Boundary

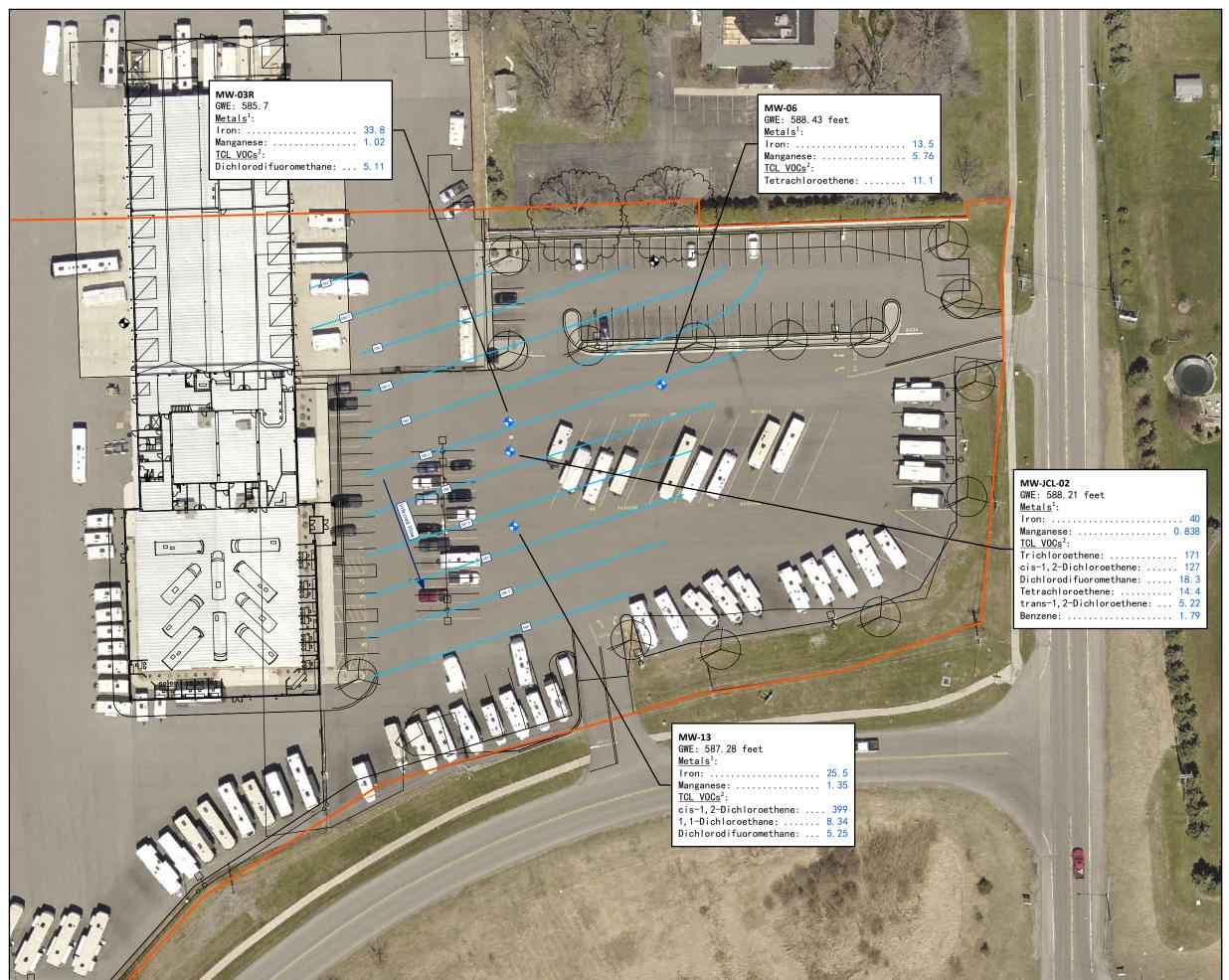


Drawn/Checked By: BGS/GLA Lu Project Number: 50185

Date: June 2020

Notes:

- Coordinate System: NAD 1983 (2011) State Plane NY West FIPS 3103 Feet
 Orthoimagery (October 2019) downloaded from Pictometry
 Scale: 1:2400 (original document size 11"x17")





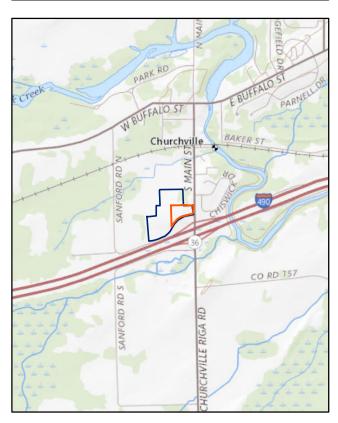


Figure 3: **Groundwater Analytical Results**

Former Churchville Ford Site Periodic Review Report 2019-2020

Location:

111 South Main Street Town of Riga, Monroe County, NY

Groundwater Contour

Legend

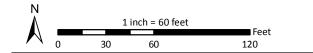
VCP Boundary

Notes:
1: Results Indicated in mg/L or ppm
2: Results indicated in ug/L or ppb

Monitoring Well

BLUE TEXT: Result exceeds Part 703.5 Class GA Ambient Groundwater Quality Standards

Monitoring Well (not sampled)



Drawn/Checked By: BGS/GLA Lu Project Number: 50185

Date: June 2020 Notes:

Coordinate System: NAD 1983 (2011) State Plane NY West FIPS 3103 Feet
 Orthoimagery (October 2019) downloaded from Pictometry
 Scale: 1:720 (original document size 11"x17")

Attachment A

Site Inspection Form



SITE-WIDE INSPECTION FORM FORMER CHURCHVILLE FORD VCP SITE

Date: 06/30/2020

Name: Ben Seifert

Company: Lu Engineers

Position of person(s) conducting maintenance/inspection activities: Environmental Scientist

Document the following information during each biannual site visit for groundwater sampling:

1. Compliance with all ECs/ICs, including site usage

Yes, The Site is only used for commercial/industrial purposes. All IC/ECs are in compliance with the SMP.

- 2. An evaluation of the condition and continued effectiveness of the Site Cap and SSDS Site cover system/cap (asphalt) was in good condition, no cracks, potholes, or penetrations were observed. Monitoring wells were all in good condition and do not require repair at this time.
- 3. General site conditions at the time of the inspection

Site conditions are in compliance with the SMP. Drum storage area contains 4 drums. One is full and labeled 2012; one is partially full and labeled 2013. Two drums are not labeled, are partially full and rusted.

4. The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection

SMP activities for the reporting period involved a Site inspection and groundwater sampling of 4 monitoring wells for VOCs, Fe, and Mn.

- 5. Compliance with permits and schedules included in the Operation and Maintenance Plan Yes- this sampling was conducted in compliance with the biannual sampling and inspection plan.
- 6. Confirm that site records are up to date

Yes

7. Conduct a visual inspection of the complete SSDS (i.e., vent fan, piping, warning device, labeling on systems, etc.).

N/A- new building does not have an SSDS (as approved by the NYSDEC).

	N/A	
9.	Inspect all components for condition and proper operation. Are both fans operation N/A	1?
10	Inspect the exhaust or discharge point to verify that no air intakes have been located $\ensuremath{N\!/} A$	nearby.
11	Identify and repair any leaks in accordance with Sections 4.3.1(a) and 4.3.4(a) of the NYSDOH Guidance (i.e.; with the systems running, smoke tubes will used to check through concrete cracks, floor joints and at the suction points and any leaks will be resmoke is no longer observed flowing through the opening). N/A	
12	Interview an appropriate occupant seeking comments and observations regarding the of the System. N/A	operation
	y Questions or Service needed to the SSDS call MITIGATION TECH at 1-800-637-9	2228

8. Conduct an inspection of all surfaces to which vacuum is applied.

Attachment B

Groundwater Sampling Logs





Location Activity SAMPL	n ID <u>MV</u> Time <u>101</u>			Samp	Sample ID ble Time <u>1</u>	:20		Date9/	Event # <u>01</u> 24/19
Initial Depth to Water 2.6 feet Measurement Point Well Diameter 2' Final Depth to Water 15 feet Well Depth 17.25 feet Well Integrity: Screen Length Pump Intake Depth Cap X									
Screen I	ength		10 feet	Pumi	n Intake De	nth	23 100	<u> </u>	Cap X
Total V	olume Pur	ged	gall	ons PID	Well Head	$\frac{0.0}{0.0}$			Casing X
[purge vol	ume (milliliter	rs per minute) x	time duration	(minutes) x	0.00026 gal/mi	lliliter]		_	Locked X
Volume of PURGE		ng – 2" diamet	er = 0.163 gall	ons per foot	of depth, 4" dia	ameter = 0.65		foot of depth	Collar <u>X</u>
Time	Depth to	Purge Rate	Temp.	pH (vmita)	Dissolved	Turbidity	Cond.	ORP	Commonto
12:15	Water (ft)	(ml/min)	(deg. C)	(units)	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments 4 gal bailed/dry
1:00									6 ½ gal bailed/dry
1:20	15		18.7	7.6	8.48	-52	10.90	56.8	o 72 gar ouried ary
1.20	10		10.7	7.0	0.10		10.50	00.0	
								1	
			Turbid, No						
]	Purge Wate	er Containe	rized:	Yes					
<u>EQUIP</u>	MENT DO	<u>CUMENTA</u>	<u>ATION</u>						
Type of	Pump: PV	C Bailer			<u></u>				
Type of	Tubing:								
Type of	Water Qua	ality Meter	·				Calibra	ated:	
Paramet	ter Vol	RAMETE	<u>RS</u> Sample Co	ollected				ume = 2.38	
VOC's		X 40 ml						<u>lumes= 7.1</u>	
Fe, Mn	1 x	250 ml						ourged= 6.	
							due to	well going	g ary
-									



Project Name Will Location ID MV Activity Time 100		Sample ID ble Time <u>1</u>		Job # 50185-02 Sampling Event # 01 Date 9/25/19				
SAMPLING NOTE Initial Depth to Wa Final Depth to Wa Screen Length Total Volume Purg [purge volume (millilitet Volume of Water in casi PURGE DATA	ater ter ged s per minute) >	9.31 feet 10 feet 9 gallo 4 time duration	Well Pumpons PID (minutes) x	0.00026 gal/mi	2pth	5 fee	<u>et</u> We 	ell Diameter 2'ell Integrity: Cap X Casing X Locked X Collar X
Depth to	Purge Rate	Temp.	рН	Dissolved	Turbidity	Cond.	ORP	
Time Water (ft) 11:25 9.31	(ml/min)	(deg. C) 21.3	(units) 8.82	O2 (mg/L)	(NTU) 689 AU	(mS/cm) 1.62	(mV) 88.5	Comments
Durge Ohea		Turkid No	Odor					
		Turbid, No						
EQUIPMENT DO Type of Pump: PV Type of Tubing: Type of Water Qu	CUMENTA C Bailer					Calibra	ated:	
VOC's 2	ARAMETE lumes X 40 ml 250 ml	RS Sample Co	llected		_1	total pi		



Project Name Will Location ID MV Activity Time 10:	V-13	Field Samp	Sample ID ble Time <u>1</u>	0 <u>MW-13</u> 1:57	Job # 50185-02 Sampling Event # 01 Date 9/24/19			
SAMPLING NOT	<u>ES</u>							
Initial Depth to Warinal Depth to Warinal Depth to Warinal Depth to Warinal Volume Purgurge volume (millilite Volume of Water in casi PURGE DATA	ged	6.91 feet 10 feet 3.75 gallo time duration	Well Pumpons PID (minutes) x	0.00026 gal/mi	2pth	35 fee	<u>et</u> We 	ell Diameter 2'ell Integrity: Cap X Casing X Locked X Collar X
Time Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
11.57 6.91		21.4	7.96	3.22	-52	1.32	19.6	
		Turbid, No						
Purge Wat EQUIPMENT DO Type of Pump: PV Type of Tubing: Type of Water Qu	CUMENTA C Bailer					Calibra	ated:	
VOC's 2	ARAMETE lumes X 40 ml 250 ml	RS Sample Co	llected		<u>LO</u>	_	NOTES blume= 1.23 columes= 3.6	•



Location	ID MV	kins RV- S V-JCL-02 0			Sample ID ble Time <u>1</u>				185-02 Event # <u>01</u> 24/19
	NG NOTI								
Initial Do	epth to Wa	ater	2.7 feet	Meas	surement Po	oint		- We	ell Diameter 2'
Final De	pth to Wa	ter	feet 10 feet 3.5 gall	Well	Depth	31.6	o2 fee	t We	ell Integrity:
Screen L	ength	1	10 feet	Pump	o Intake De	epth		=	Cap X
Total Vo	olume Purş	gea	3.5 gall time duration	ons PID	Well Head	<u>U.U</u>		_	Casing X Locked X
	Water in casi		er = 0.163 gallo	` ′	•	-	3 gallons per f	oot of depth	Collar X
	Depth to	Purge Rate	Temp.	pН	Dissolved	Turbidity	Cond.	ORP	_
Time	Water (ft)	(ml/min)	(deg. C)	(units)	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments
12:15	2.7	-	16.3	7.14	2.46	-52	4.07	83	
D	huras Obse		Turbid No	Odor					
			Turbid, No						
Р	urge wate	er Containe	rized:	Y es					
EQUIPM	IENT DO	<u>CUMENTA</u>	<u>ATION</u>						
Type of	Pump: <u>PV</u>	C Bailer							
Type of	Water Ou	ality Meter	•				Calibra	ited:	
JI			·						
ANALY	ΓICAL PA	RAMETE	RS			LO	CATION N	OTES	
Paramete		umes	Sample Co	llected			well volur		
VOC's		X 40 ml						mes = 2.25	gal
Fe, Mn		250 ml				<u>-</u>			
<u>. v, .v</u>	1 A								

Attachment C

Laboratory Analytical Reports





Lab Project ID: 194695

Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Sample Identifier: MW-06

 Lab Sample ID:
 194695-01
 Date Sampled:
 9/25/2019

 Matrix:
 Water
 Date Received:
 9/25/2019

Metals

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	Date Analyzed
Iron	13.5	mg/L		9/30/2019 16:53
Manganese	5.76	mg/L		9/27/2019 18:14

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date: 9/26/2019 **Data File:** 190930B

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Sample Identifier: MW-06

 Lab Sample ID:
 194695-01
 Date Sampled:
 9/25/2019

 Matrix:
 Water
 Date Received:
 9/25/2019

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		9/26/2019 17:37
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		9/26/2019 17:37
1,1,2-Trichloroethane	< 2.00	ug/L		9/26/2019 17:37
1,1-Dichloroethane	< 2.00	ug/L		9/26/2019 17:37
1,1-Dichloroethene	< 2.00	ug/L		9/26/2019 17:37
1,2,3-Trichlorobenzene	< 5.00	ug/L		9/26/2019 17:37
1,2,4-Trichlorobenzene	< 5.00	ug/L		9/26/2019 17:37
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		9/26/2019 17:37
1,2-Dibromoethane	< 2.00	ug/L		9/26/2019 17:37
1,2-Dichlorobenzene	< 2.00	ug/L		9/26/2019 17:37
1,2-Dichloroethane	< 2.00	ug/L		9/26/2019 17:37
1,2-Dichloropropane	< 2.00	ug/L		9/26/2019 17:37
1,3-Dichlorobenzene	< 2.00	ug/L		9/26/2019 17:37
1,4-Dichlorobenzene	< 2.00	ug/L		9/26/2019 17:37
1,4-Dioxane	< 20.0	ug/L		9/26/2019 17:37
2-Butanone	< 10.0	ug/L		9/26/2019 17:37
2-Hexanone	< 5.00	ug/L		9/26/2019 17:37
4-Methyl-2-pentanone	< 5.00	ug/L		9/26/2019 17:37
Acetone	< 10.0	ug/L		9/26/2019 17:37
Benzene	< 1.00	ug/L		9/26/2019 17:37
Bromochloromethane	< 5.00	ug/L		9/26/2019 17:37
Bromodichloromethane	< 2.00	ug/L		9/26/2019 17:37
Bromoform	< 5.00	ug/L		9/26/2019 17:37



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Sample Identifier:	MW-06					
Lab Sample ID:	194695-01			Date Sampled:	9/25/2019	
Matrix:	Water			Date Received:	9/25/2019	
Bromomethane		< 2.00	ug/L		9/26/2019	17:3
Carbon disulfide		< 2.00	ug/L		9/26/2019	17:3
Carbon Tetrachloride		< 2.00	ug/L		9/26/2019	17:3
Chlorobenzene		< 2.00	ug/L		9/26/2019	17:3
Chloroethane		< 2.00	ug/L		9/26/2019	17:3
Chloroform		< 2.00	ug/L		9/26/2019	17:3
Chloromethane		< 2.00	ug/L		9/26/2019	17:3
cis-1,2-Dichloroethene		< 2.00	ug/L		9/26/2019	17:3
cis-1,3-Dichloropropene		< 2.00	ug/L		9/26/2019	17:3
Cyclohexane		< 10.0	ug/L		9/26/2019	17:3
Dibromochloromethane		< 2.00	ug/L		9/26/2019	17:
Dichlorodifluoromethan	e	4.35	ug/L		9/26/2019	17:
Ethylbenzene		< 2.00	ug/L		9/26/2019	17:
Freon 113		< 2.00	ug/L		9/26/2019	17:
Isopropylbenzene		< 2.00	ug/L		9/26/2019	17:
m,p-Xylene		< 2.00	ug/L		9/26/2019	17:3
Methyl acetate		< 2.00	ug/L		9/26/2019	17:
Methyl tert-butyl Ether		< 2.00	ug/L		9/26/2019	17:
Methylcyclohexane		< 2.00	ug/L		9/26/2019	17:3
Methylene chloride		< 5.00	ug/L		9/26/2019	17:
o-Xylene		< 2.00	ug/L		9/26/2019	17:
Styrene		< 5.00	ug/L		9/26/2019	17:3
Tetrachloroethene		11.1	ug/L		9/26/2019	17:
Toluene		< 2.00	ug/L		9/26/2019	17:3
trans-1,2-Dichloroethen	e	< 2.00	ug/L		9/26/2019	17:3



9/26/2019

17:37

Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Toluene-D8

Sample Identifier:	MW-06						
Lab Sample ID:	194695-01			Dat	e Sampled:	9/25/2019	
Matrix:	Water			Dat	e Received:	9/25/2019	
trans-1,3-Dichloroprop	ene	< 2.00	ug/L			9/26/2019	17:37
Trichloroethene		1.97	ug/L		J	9/26/2019	17:37
Trichlorofluoromethan	e	< 2.00	ug/L			9/26/2019	17:37
Vinyl chloride		< 2.00	ug/L			9/26/2019	17:37
<u>Surrogate</u>		<u>Per</u>	cent Recovery	<u>Limits</u>	Outliers	Date Analy	<u>zed</u>
1,2-Dichloroethane-d4			114	73.4 - 131		9/26/2019	17:37
4-Bromofluorobenzene	2		77.4	57.2 - 129		9/26/2019	17:37
Pentafluorobenzene			92.2	87 - 112		9/26/2019	17:37

90.3

78.3 - 115

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x64799.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Sample Identifier: Trip Blank

Lab Sample ID: 194695-02 **Date Sampled:** 9/23/2019

Matrix: Water Date Received: 9/25/2019

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		9/26/2019 17:12
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		9/26/2019 17:12
1,1,2-Trichloroethane	< 2.00	ug/L		9/26/2019 17:12
1,1-Dichloroethane	< 2.00	ug/L		9/26/2019 17:12
1,1-Dichloroethene	< 2.00	ug/L		9/26/2019 17:12
1,2,3-Trichlorobenzene	< 5.00	ug/L		9/26/2019 17:12
1,2,4-Trichlorobenzene	< 5.00	ug/L		9/26/2019 17:12
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		9/26/2019 17:12
1,2-Dibromoethane	< 2.00	ug/L		9/26/2019 17:12
1,2-Dichlorobenzene	< 2.00	ug/L		9/26/2019 17:12
1,2-Dichloroethane	< 2.00	ug/L		9/26/2019 17:12
1,2-Dichloropropane	< 2.00	ug/L		9/26/2019 17:12
1,3-Dichlorobenzene	< 2.00	ug/L		9/26/2019 17:12
1,4-Dichlorobenzene	< 2.00	ug/L		9/26/2019 17:12
1,4-Dioxane	< 20.0	ug/L		9/26/2019 17:12
2-Butanone	< 10.0	ug/L		9/26/2019 17:12
2-Hexanone	< 5.00	ug/L		9/26/2019 17:12
4-Methyl-2-pentanone	< 5.00	ug/L		9/26/2019 17:12
Acetone	< 10.0	ug/L		9/26/2019 17:12
Benzene	< 1.00	ug/L		9/26/2019 17:12
Bromochloromethane	< 5.00	ug/L		9/26/2019 17:12
Bromodichloromethane	< 2.00	ug/L		9/26/2019 17:12
Bromoform	< 5.00	ug/L		9/26/2019 17:12



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Sample Identifier:	Trip Blank					
Lab Sample ID:	194695-02			Date Sampled:	9/23/2019	
Matrix:	Water			Date Received:	9/25/2019	
Bromomethane		< 2.00	ug/L		9/26/2019	17:12
Carbon disulfide		< 2.00	ug/L		9/26/2019	17:12
Carbon Tetrachloride		< 2.00	ug/L		9/26/2019	17:12
Chlorobenzene		< 2.00	ug/L		9/26/2019	17:12
Chloroethane		< 2.00	ug/L		9/26/2019	17:12
Chloroform		< 2.00	ug/L		9/26/2019	17:12
Chloromethane		< 2.00	ug/L		9/26/2019	17:12
cis-1,2-Dichloroethene		< 2.00	ug/L		9/26/2019	17:12
cis-1,3-Dichloropropene	!	< 2.00	ug/L		9/26/2019	17:12
Cyclohexane		< 10.0	ug/L		9/26/2019	17:12
Dibromochloromethane		< 2.00	ug/L		9/26/2019	17:12
Dichlorodifluoromethan	e	< 2.00	ug/L		9/26/2019	17:12
Ethylbenzene		< 2.00	ug/L		9/26/2019	17:12
Freon 113		< 2.00	ug/L		9/26/2019	17:12
Isopropylbenzene		< 2.00	ug/L		9/26/2019	17:12
m,p-Xylene		< 2.00	ug/L		9/26/2019	17:12
Methyl acetate		< 2.00	ug/L		9/26/2019	17:12
Methyl tert-butyl Ether		< 2.00	ug/L		9/26/2019	17:12
Methylcyclohexane		< 2.00	ug/L		9/26/2019	17:12
Methylene chloride		< 5.00	ug/L		9/26/2019	17:12
o-Xylene		< 2.00	ug/L		9/26/2019	17:12
Styrene		< 5.00	ug/L		9/26/2019	17:12
Tetrachloroethene		< 2.00	ug/L		9/26/2019	17:12
Toluene		< 2.00	ug/L		9/26/2019	17:12
trans-1,2-Dichloroethen	e	< 2.00	ug/L		9/26/2019	17:12



9/26/2019

17:12

Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Toluene-D8

Sample Identifier:	Trip Blank				
Lab Sample ID:	194695-02			Date Sampled:	9/23/2019
Matrix:	Water			Date Received:	9/25/2019
trans-1,3-Dichloroprop	ene	< 2.00	ug/L		9/26/2019 17:12
Trichloroethene		< 2.00	ug/L		9/26/2019 17:12

Trichlorofluoromethane < 2.00 ug/L 9/26/2019 17:12 Vinyl chloride < 2.00 ug/L 9/26/2019 17:12

Surrogate Percent Recovery Outliers Limits Date Analyzed 73.4 - 131 1,2-Dichloroethane-d4 113 9/26/2019 17:12 84.9 4-Bromofluorobenzene 57.2 - 129 9/26/2019 17:12 Pentafluorobenzene 96.1 87 - 112 9/26/2019 17:12

78.3 - 115

93.2

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x64798.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "J" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

CHAIN OF CUSTODY

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Chain of Custody Supplement

Client:	Lu Engineers	Completed by:	Glen Pezzulo
Lab Project ID:	194695	Date:	9/25/19
		tion Requirements 210/241/242/243/244	
Condition	NELAC compliance with the samp Yes	ole condition requirements No	upon receipt N/A
Container Type	X		
Comments		*	·
Transferred to method- compliant container	e ^x		
Headspace (<1 mL) Comments	X Vo A		
Preservation			
Comments	14		
Chlorine Absent (<0.10 ppm per test strip) Comments			<u>X</u>
Holding Time Comments			
Temperature			X metals
Comments	10°C ked started	n Field 9/25/	19 12:33
Compliant Sample Quantity/	Гуре		
Comments	*		



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Sample Identifier: MW-13

Lab Sample ID:194681-01Date Sampled:9/24/2019Matrix:WaterDate Received:9/24/2019

Metals

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	Date Analyzed
Iron	25.2	mg/L		9/26/2019 19:39
Manganese	1.35	mg/L		9/26/2019 19:39

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date:9/25/2019Data File:190926B



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Sample Identifier: MW-13

 Lab Sample ID:
 194681-01
 Date Sampled:
 9/24/2019

 Matrix:
 Water
 Date Received:
 9/24/2019

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 10.0	ug/L		9/27/2019 13:54
1,1,2,2-Tetrachloroethane	< 10.0	ug/L		9/27/2019 13:54
1,1,2-Trichloroethane	< 10.0	ug/L		9/27/2019 13:54
1,1-Dichloroethane	8.34	ug/L	J	9/27/2019 13:54
1,1-Dichloroethene	< 10.0	ug/L		9/27/2019 13:54
1,2,3-Trichlorobenzene	< 25.0	ug/L		9/27/2019 13:54
1,2,4-Trichlorobenzene	< 25.0	ug/L		9/27/2019 13:54
1,2-Dibromo-3-Chloropropane	< 50.0	ug/L		9/27/2019 13:54
1,2-Dibromoethane	< 10.0	ug/L		9/27/2019 13:54
1,2-Dichlorobenzene	< 10.0	ug/L		9/27/2019 13:54
1,2-Dichloroethane	< 10.0	ug/L		9/27/2019 13:54
1,2-Dichloropropane	< 10.0	ug/L		9/27/2019 13:54
1,3-Dichlorobenzene	< 10.0	ug/L		9/27/2019 13:54
1,4-Dichlorobenzene	< 10.0	ug/L		9/27/2019 13:54
1,4-Dioxane	< 100	ug/L		9/27/2019 13:54
2-Butanone	< 50.0	ug/L		9/27/2019 13:54
2-Hexanone	< 25.0	ug/L		9/27/2019 13:54
4-Methyl-2-pentanone	< 25.0	ug/L		9/27/2019 13:54
Acetone	< 50.0	ug/L		9/27/2019 13:54
Benzene	< 5.00	ug/L		9/27/2019 13:54
Bromochloromethane	< 25.0	ug/L		9/27/2019 13:54
Bromodichloromethane	< 10.0	ug/L		9/27/2019 13:54
Bromoform	< 25.0	ug/L		9/27/2019 13:54



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Sample Identifier:	MW-13					
Lab Sample ID:	194681-01			Date Sampled:	9/24/2019	
Matrix:	Water			Date Received:	9/24/2019	
Bromomethane		< 10.0	ug/L		9/27/2019	13:54
Carbon disulfide		< 10.0	ug/L		9/27/2019	13:5
Carbon Tetrachloride		< 10.0	ug/L		9/27/2019	13:5
Chlorobenzene		< 10.0	ug/L		9/27/2019	13:5
Chloroethane		< 10.0	ug/L		9/27/2019	13:5
Chloroform		< 10.0	ug/L		9/27/2019	13:5
Chloromethane		< 10.0	ug/L		9/27/2019	13:5
cis-1,2-Dichloroethene		399	ug/L		9/27/2019	13:5
cis-1,3-Dichloropropene	!	< 10.0	ug/L		9/27/2019	13:5
Cyclohexane		< 50.0	ug/L		9/27/2019	13:5
Dibromochloromethane		< 10.0	ug/L		9/27/2019	13:5
Dichlorodifluoromethan	e	5.25	ug/L	J	9/27/2019	13:5
Ethylbenzene		< 10.0	ug/L		9/27/2019	13:5
Freon 113		< 10.0	ug/L		9/27/2019	13:5
Isopropylbenzene		< 10.0	ug/L		9/27/2019	13:5
m,p-Xylene		< 10.0	ug/L		9/27/2019	13:5
Methyl acetate		< 10.0	ug/L		9/27/2019	13:5
Methyl tert-butyl Ether		< 10.0	ug/L		9/27/2019	13:5
Methylcyclohexane		< 10.0	ug/L		9/27/2019	13:5
Methylene chloride		< 25.0	ug/L		9/27/2019	13:5
o-Xylene		< 10.0	ug/L		9/27/2019	13:5
Styrene		< 25.0	ug/L		9/27/2019	13:5
Tetrachloroethene		< 10.0	ug/L		9/27/2019	13:5
Toluene		< 10.0	ug/L		9/27/2019	13:5
trans-1,2-Dichloroethen	e	< 10.0	ug/L		9/27/2019	13:5



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Sample Identifier:	MW-13				
Lab Sample ID:	194681-01			Date Sampled:	9/24/2019
Matrix:	Water			Date Received:	9/24/2019
trans-1,3-Dichloropro	pene	< 10.0	ug/L		9/27/2019 13:

iau ix.	water			Date Received.	9/24/2019	
trans-1,3-Dichl	loropropene	< 10.0	ug/L		9/27/2019	13:54
Trichloroethen	ie	< 10.0	ug/L		9/27/2019	13:54
Trichlorofluoro	omethane	< 10.0	ug/L		9/27/2019	13:54
Vinyl chloride		11.9	ug/L		9/27/2019	13:54

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	<u>vzed</u>
1,2-Dichloroethane-d4	111	73.4 - 131		9/27/2019	13:54
4-Bromofluorobenzene	84.3	57.2 - 129		9/27/2019	13:54
Pentafluorobenzene	97.9	87 - 112		9/27/2019	13:54
Toluene-D8	92.4	78.3 - 115		9/27/2019	13:54

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x64826.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Sample Identifier: MW JCL-02

 Lab Sample ID:
 194681-02
 Date Sampled:
 9/24/2019

 Matrix:
 Water
 Date Received:
 9/24/2019

<u>Metals</u>

 Analyte
 Result
 Units
 Qualifier
 Date Analyzed

 Iron
 40.0
 mg/L
 9/26/2019
 19:52

 Manganese
 0.838
 mg/L
 9/26/2019
 19:52

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date: 9/25/2019 **Data File:** 190926B



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Sample Identifier: MW JCL-02

Lab Sample ID: 194681-02 **Date Sampled:** 9/24/2019

Matrix: Water Date Received: 9/24/2019

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		9/26/2019 18:22
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		9/26/2019 18:22
1,1,2-Trichloroethane	< 2.00	ug/L		9/26/2019 18:22
1,1-Dichloroethane	< 2.00	ug/L		9/26/2019 18:22
1,1-Dichloroethene	< 2.00	ug/L		9/26/2019 18:22
1,2,3-Trichlorobenzene	< 5.00	ug/L		9/26/2019 18:22
1,2,4-Trichlorobenzene	< 5.00	ug/L		9/26/2019 18:22
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		9/26/2019 18:22
1,2-Dibromoethane	< 2.00	ug/L		9/26/2019 18:22
1,2-Dichlorobenzene	< 2.00	ug/L		9/26/2019 18:22
1,2-Dichloroethane	< 2.00	ug/L		9/26/2019 18:22
1,2-Dichloropropane	< 2.00	ug/L		9/26/2019 18:22
1,3-Dichlorobenzene	< 2.00	ug/L		9/26/2019 18:22
1,4-Dichlorobenzene	< 2.00	ug/L		9/26/2019 18:22
1,4-Dioxane	< 20.0	ug/L		9/26/2019 18:22
2-Butanone	< 10.0	ug/L		9/26/2019 18:22
2-Hexanone	< 5.00	ug/L		9/26/2019 18:22
4-Methyl-2-pentanone	< 5.00	ug/L		9/26/2019 18:22
Acetone	11.3	ug/L		9/26/2019 18:22
Benzene	1.79	ug/L		9/26/2019 18:22
Bromochloromethane	< 5.00	ug/L		9/26/2019 18:22
Bromodichloromethane	< 2.00	ug/L		9/26/2019 18:22
Bromoform	< 5.00	ug/L		9/26/2019 18:22



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Sample Identifier:	MW JCL-02					
Lab Sample ID:	194681-02			Date Sampled:	9/24/2019	
Matrix:	Water			Date Received:	9/24/2019	
Bromomethane		< 2.00	ug/L		9/26/2019	18:2
Carbon disulfide		1.44	ug/L	J	9/26/2019	18:2
Carbon Tetrachloride		< 2.00	ug/L		9/26/2019	18:2
Chlorobenzene		< 2.00	ug/L		9/26/2019	18:2
Chloroethane		< 2.00	ug/L		9/26/2019	18:2
Chloroform		< 2.00	ug/L		9/26/2019	18:2
Chloromethane		< 2.00	ug/L		9/26/2019	18:2
cis-1,2-Dichloroethene		127	ug/L		9/26/2019	18:2
cis-1,3-Dichloropropene		< 2.00	ug/L		9/26/2019	18:2
Cyclohexane		< 10.0	ug/L		9/26/2019	18:2
Dibromochloromethane		< 2.00	ug/L		9/26/2019	18:2
Dichlorodifluoromethan	ie	18.3	ug/L		9/26/2019	18:2
Ethylbenzene		< 2.00	ug/L		9/26/2019	18:2
Freon 113		< 2.00	ug/L		9/26/2019	18:2
Isopropylbenzene		< 2.00	ug/L		9/26/2019	18:2
m,p-Xylene		< 2.00	ug/L		9/26/2019	18:2
Methyl acetate		< 2.00	ug/L		9/26/2019	18:2
Methyl tert-butyl Ether		< 2.00	ug/L		9/26/2019	18:2
Methylcyclohexane		< 2.00	ug/L		9/26/2019	18:2
Methylene chloride		< 5.00	ug/L		9/26/2019	18:2
o-Xylene		< 2.00	ug/L		9/26/2019	18:2
Styrene		< 5.00	ug/L		9/26/2019	18:2
Tetrachloroethene		14.4	ug/L		9/26/2019	18:2
Toluene		< 2.00	ug/L		9/26/2019	18:2
trans-1,2-Dichloroethen	e	5.22	ug/L		9/26/2019	18:2



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Matrix:	Water	Date Received:	9/24/2019
Lab Sample ID:	194681-02	Date Sampled:	9/24/2019
Sample Identifier:	MW JCL-02		

			7/21/2019
trans-1,3-Dichloropropene	< 2.00	ug/L	9/26/2019 18:22
Trichloroethene	171	ug/L	9/26/2019 18:22
Trichlorofluoromethane	< 2.00	ug/L	9/26/2019 18:22
Vinyl chloride	< 2.00	ug/L	9/26/2019 18:22

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	vzed
1,2-Dichloroethane-d4	114	73.4 - 131		9/26/2019	18:22
4-Bromofluorobenzene	85.3	57.2 - 129		9/26/2019	18:22
Pentafluorobenzene	89.2	87 - 112		9/26/2019	18:22
Toluene-D8	94.6	78.3 - 115		9/26/2019	18:22

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x64801.D



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Sample Identifier: MW-03R

Lab Sample ID:194681-03Date Sampled:9/24/2019Matrix:WaterDate Received:9/24/2019

<u>Metals</u>

 Analyte
 Result
 Units
 Qualifier
 Date Analyzed

 Iron
 33.8
 mg/L
 9/26/2019
 19:57

 Manganese
 1.02
 mg/L
 9/26/2019
 19:57

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date:9/25/2019Data File:190926B



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Sample Identifier: MW-03R

 Lab Sample ID:
 194681-03
 Date Sampled:
 9/24/2019

 Matrix:
 Water
 Date Received:
 9/24/2019

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	<u>Qualifier</u>	Date Analyzed	
1,1,1-Trichloroethane	< 2.00	ug/L		9/26/2019 18:45	5
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		9/26/2019 18:45	5
1,1,2-Trichloroethane	< 2.00	ug/L		9/26/2019 18:45	5
1,1-Dichloroethane	< 2.00	ug/L		9/26/2019 18:45	5
1,1-Dichloroethene	< 2.00	ug/L		9/26/2019 18:45	5
1,2,3-Trichlorobenzene	< 5.00	ug/L		9/26/2019 18:45	5
1,2,4-Trichlorobenzene	< 5.00	ug/L		9/26/2019 18:45	5
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		9/26/2019 18:45	5
1,2-Dibromoethane	< 2.00	ug/L		9/26/2019 18:45	5
1,2-Dichlorobenzene	< 2.00	ug/L		9/26/2019 18:45	5
1,2-Dichloroethane	< 2.00	ug/L		9/26/2019 18:45	5
1,2-Dichloropropane	< 2.00	ug/L		9/26/2019 18:45	5
1,3-Dichlorobenzene	< 2.00	ug/L		9/26/2019 18:45	5
1,4-Dichlorobenzene	< 2.00	ug/L		9/26/2019 18:45	5
1,4-Dioxane	< 20.0	ug/L		9/26/2019 18:45	5
2-Butanone	< 10.0	ug/L		9/26/2019 18:45	5
2-Hexanone	< 5.00	ug/L		9/26/2019 18:45	5
4-Methyl-2-pentanone	< 5.00	ug/L		9/26/2019 18:45	5
Acetone	< 10.0	ug/L		9/26/2019 18:45	5
Benzene	0.621	ug/L	J	9/26/2019 18:45	5
Bromochloromethane	< 5.00	ug/L		9/26/2019 18:45	5
Bromodichloromethane	< 2.00	ug/L		9/26/2019 18:45	5
Bromoform	< 5.00	ug/L		9/26/2019 18:45	5



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Sample Identifier:	MW-03R					
Lab Sample ID:	194681-03			Date Sampled:	9/24/2019	
Matrix:	Water			Date Received:	9/24/2019	
Bromomethane		< 2.00	ug/L		9/26/2019	18:45
Carbon disulfide		< 2.00	ug/L		9/26/2019	18:45
Carbon Tetrachloride		< 2.00	ug/L		9/26/2019	18:45
Chlorobenzene		< 2.00	ug/L		9/26/2019	18:45
Chloroethane		< 2.00	ug/L		9/26/2019	18:45
Chloroform		< 2.00	ug/L		9/26/2019	18:45
Chloromethane		< 2.00	ug/L		9/26/2019	18:45
cis-1,2-Dichloroethene		< 2.00	ug/L		9/26/2019	18:45
cis-1,3-Dichloropropene	!	< 2.00	ug/L		9/26/2019	18:45
Cyclohexane		< 10.0	ug/L		9/26/2019	18:45
Dibromochloromethane		< 2.00	ug/L		9/26/2019	18:45
Dichlorodifluoromethan	e	5.11	ug/L		9/26/2019	18:45
Ethylbenzene		< 2.00	ug/L		9/26/2019	18:45
Freon 113		< 2.00	ug/L		9/26/2019	18:45
Isopropylbenzene		< 2.00	ug/L		9/26/2019	18:45
m,p-Xylene		< 2.00	ug/L		9/26/2019	18:45
Methyl acetate		< 2.00	ug/L		9/26/2019	18:45
Methyl tert-butyl Ether		< 2.00	ug/L		9/26/2019	18:45
Methylcyclohexane		< 2.00	ug/L		9/26/2019	18:45
Methylene chloride		< 5.00	ug/L		9/26/2019	18:45
o-Xylene		< 2.00	ug/L		9/26/2019	18:45
Styrene		< 5.00	ug/L		9/26/2019	18:45
Tetrachloroethene		< 2.00	ug/L		9/26/2019	18:45
Toluene		< 2.00	ug/L		9/26/2019	18:45
trans-1,2-Dichloroethen	e	< 2.00	ug/L		9/26/2019	18:45



Client: <u>Lu Engineers, Inc.</u>

Project Reference: Wilkins RV

Sample Identifier:	MW-03R				
Lab Sample ID:	194681-03			Date Sampled:	9/24/2019
Matrix:	Water			Date Received:	9/24/2019
trans-1.3-Dichloropro	pene	< 2.00	ug/L		9/26/2019 18:

174601			2400110011041
trans-1,3-Dichloropropene	< 2.00	ug/L	9/26/2019 18:45
Trichloroethene	< 2.00	ug/L	9/26/2019 18:45
Trichlorofluoromethane	< 2.00	ug/L	9/26/2019 18:45
Vinyl chloride	< 2.00	ug/L	9/26/2019 18:45

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	<u>zed</u>
1,2-Dichloroethane-d4	125	73.4 - 131		9/26/2019	18:45
4-Bromofluorobenzene	88.1	57.2 - 129		9/26/2019	18:45
Pentafluorobenzene	86.2	87 - 112	*	9/26/2019	18:45
Toluene-D8	94.6	78.3 - 115		9/26/2019	18:45

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x64802.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "J" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

CHAIN OF CUSTODY

Availability contingent upon lab apple Standard 5 day None Required 10 day Rush 3 day Rush 2 day Rush 1 day Date Needed Date Needed Date needed: Category A Category A Category B Category	DATE COLLECTED COLLECTED S S S S S S S S S S S S S S S S S S S	PROJECT REFERENCE	PARADIGM
Availability contingent upon lab approval; additional fees may apply. Availability contingent upon lab approval; additional fees may apply. None Required Batch QC Category A Category B Other Other Other Please indicate package needed: Descriptional fees may apply. None Required NYSDEC EDD Other EDD please indicate EDD needed:	SAMPLE IDENTIFIER A WW JCL-02 WWW-13 WW-13	Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	ADDRESS: 33 & STATE; PHONE: CLIENT: Lux & ncl in ec w REPORT TO: REPORT TO:
Sampled By Date/Time Received By Received By Received By Ciccl Started in Fill d 9/14 G 4:3 By signing this form, client agrees to Paradigm Terms and Conditions (reverse). By Seal N H, Samples delivered by Chart. GP 9/14 G Custod Seal N H, Samples delivered by Chart. GP 9/14 G See additional page for sample conditions.		WA - Water WG - Groundwater WW - Wastewater REQUESTED ANALYSIS	CI N STATE: ZIP: INVOICE TO: CLIENT: L & Z N STATE: ZIP: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: CLIENT: L & Z N STATE: ZIP: ZIP: L & Z N STATE: ZIP: ZIP
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Chain of Custody Supplement

Client:	Ly Eng	Completed by:	Molyail	
Lab Project ID:	194681	Date:	9/24/19	· · · · · · · · · · · · · · · · · · ·
* 30		ndition Requirements SLAP 210/241/242/243/244	· ·	
Condition	NELAC compliance with the sa Yes	úmple condition requirements No	upon receipt N/A	
Container Type	Ţ,			
Comment	ts			1
Transferred to method- compliant container				
Headspace (<1 mL) Comment	VOA-		met	
Preservation Comment	s			
781				
Chlorine Absent (<0.10 ppm per test strip) Comments	s			
		2		
Holding Time Comments				
Temperature Comments	() ciud ston	ted in field	TWO TO	
ompliant Sample Quantity,		C SIN JULI		
Comments	No bottle certs for	a motals	**************************************	
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Attachment D

IC/EC Certification Form



Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

- 1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.
- 2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.
- 3. If you <u>cannot</u> certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.
- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.



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



Si	Site Details te No. V00658	Box 1	
Si	te Name Churchville Ford, Inc.		
Cit Co Sit	te Address: 111 South Main Street Zip Code: 14428 ty/Town: Churchville bunty: Monroe te Acreage: 6.0 209 2009 Exporting Period: June 01, 2018 to June 01, 2019		
		YES	NO
1.	Is the information above correct?	X	
	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 tax map amendment during this Reporting Period?	e a	×
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	D	X
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issufor or at the property during this Reporting Period?	ed	X
	If you answered YES to questions 2 thru 4, include documentation or evide that documentation has been previously submitted with this certification for	nce orm.	
5.	Is the site currently undergoing development?		X
		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	
7.	Are all ICs/ECs in place and functioning as designed?	X	
	IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date beld DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continu	ow and e.	
A C	Corrective Measures Work Plan must be submitted along with this form to addre	ss these iss	sues.

SITE NO. V00658 Box 3

Description of Institutional Controls

Parcel

143.17-1-50

<u>Owner</u>

BLW Properties of Churchville, LLC.

Institutional Control

Ground Water Use Restriction

Landuse Restriction Site Management Plan

- 1. Site use is limited to Commercial and industrial uses.
- 2. Groundwater use is prohibited.
- 3. Compliance with a Site Management Plan is required.
- 4. Periodic certifications are required.
- 5. The Site and associated institutional controls apply to a 6-acre portion of a 16-acre parcel.

Box 4

Description of Engineering Controls

Parcel

Engineering Control

143.17-1-50

Cover System

- 1. Cover system consisting primarily of asphalt pavement and the building slab.
- 2. The Site and associated engineering controls apply to a 6-acre portion of a 16-acre parcel.

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В	ox	ð

	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 compete. 	n
	YES NO	
	X D	
2.	If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institution or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:	al
	(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 an the environment;	.d
	(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. V00658

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.

print name P.G. at 339	Fast Avenus: two Rochester NY, print business address 14604
am certifying as Owner's Representative	(Owner or Remedial Party
for the Site named in the Site Details Section of this	s form.
Signature of Owner, Remedial Party, or Designated	Representative Date

IC/EC CERTIFICATIONS

Professional Engineer Signature

Box 7

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.

print name print business address print business print business

Stamp

(Required for PE)

Signature of Professional Engineer, for the Owner or

Remedial Party, Rendering Certification

Enclosure 3 Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
 - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
 - B. Effectiveness of the Remedial Program Provide overall conclusions regarding;
 - 1. progress made during the reporting period toward meeting the remedial objectives for the site
 - 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
 - C. Compliance
 - 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
 - 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
 - D. Recommendations
 - 1. recommend whether any changes to the SMP are needed
 - 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
 - 3. recommend whether the requirements for discontinuing site management have been met.

II. Site Overview (one page or less)

- A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature extent of contamination prior to site remediation.
 - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness

Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

IV. IC/EC Plan Compliance Report (if applicable)

- A. IC/EC Requirements and Compliance
 - 1. Describe each control, its objective, and how performance of the control is evaluated.
 - 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
 - 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
 - 4. Conclusions and recommendations for changes.

B. IC/EC Certification

1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

V. Monitoring Plan Compliance Report (if applicable)

- A. Components of the Monitoring Plan (tabular presentations preferred) Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
- B. Summary of Monitoring Completed During Reporting Period Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
- C. Comparisons with Remedial Objectives Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
- D. Monitoring Deficiencies Describe any ways in which monitoring did not fully comply with the monitoring plan.
- E. Conclusions and Recommendations for Changes Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)

- A. Components of O&M Plan Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
- B. Summary of O&M Completed During Reporting Period Describe the O&M tasks actually completed during this PRR reporting period.
- C. Evaluation of Remedial Systems Based upon the results of the O&M activities completed, evaluated

- the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.
- D. O&M Deficiencies Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
- E. Conclusions and Recommendations for Improvements Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

- A. Compliance with SMP For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
 - 1. whether all requirements of each plan were met during the reporting period
 - 2. any requirements not met
 - 3. proposed plans and a schedule for coming into full compliance.
- B. Performance and Effectiveness of the Remedy Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
- C. Future PRR Submittals
 - 1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
 - 2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.