



Periodic Review Report

Prepared for:

Sonoco Products Company

North Second Street

Hartsville, South Carolina 29550

Greif, Inc. Facility

2122 Colvin Boulevard Tonawanda, New York

NYSDEC Site Number V00334

August 2021

Project No.: 0605504

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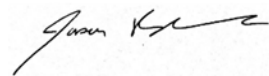
5 August 2021

Periodic Review Report

Greif, Inc. Facility



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Acronyms and Abbreviations

Name	Description
COPC	Compounds or Potential Concern
DNAPL	Dense Non-Aqueous Phase Liquid
EC	Engineering Control
EPA	Environmental Protection Agency
ERM	ERM Consulting & Engineering, Inc.
HVAC	Heating, Ventilation, and Air Conditioning
IA	Indoor Air
IC	Institutional Control
LNAPL	Light Non-Aqueous Phase Liquid
MNA	Monitored Natural Attenuation
MW	Monitoring Well
NAPL	Non-Aqueous Phase Liquid
NYSDEC	New York State Department of Environmental Conservation

NYSDOH	New York State Department of Health
O&M	Operations and Maintenance
OM&M	Operations, Maintenance, and Monitoring
PRR	Periodic Review Report
RAO	Remedial Action Objective
SCOs	Soil Cleanup Objectives
SMP	Site Management Plan
SSD	Sub-Slab Depressurization
SSDS	Sub-Slab Depressurization System
TCE	Trichloroethene
TOGS	Technical and Operational Guidance Series
USEPA	United States Environmental Protection Agency
VCA	Voluntary Cleanup Agreement
VMP	Vapor Monitoring Point
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

Sonoco Products Company (Sonoco, hereafter referred to as the Remedial Party) entered into a Voluntary Cleanup Agreement (VCA) with the New York State Department of Environmental Conservation (NYSDEC) in May 2001, to investigate and remediate the property located at 2122 Colvin Boulevard Tonawanda, Erie County, New York (the Site). The property was remediated for commercial use, and was used for the manufacture of fiber drums and associated products by Greif, Incorporated. Upon completion of the remediation, NYSDEC issued a Release and Covenant Not to Sue as of 16 March 2018. Greif, Incorporated sold the property to Midwest Storage Developers, LLC on 16 July 2021 and it is currently vacant.

Residual contamination is being addressed by Engineering Controls (ECs) pursuant to a Site Management Plan (SMP), which remains in effect. The SMP obligations are also reflected in Institutional Controls (ICs), including a Deed Restriction that has been duly recorded in accordance with ECL Article 71, Title 36.

The SMP requires the maintenance of the ECs, as well as the filing of Periodic Review Reports (PRRs) to document that the ICs and ECs remain in place and continue to be effective.

A summary of the results of the periodic monitoring described in this report are as follows:

- The annual inspection confirmed that the integrity of the Site cover system remains intact.
- Vacuum readings collected from the system piping and vacuum monitoring points (VMPs) in June 2021 are similar to the readings obtained upon system startup in 2013 and those collected afterwards. These data indicate the system is working within the original system specifications.
- Since start-up, the sub-slab depressurization system (SSDS) has been performing effectively and is protective of public health. If significant future modifications to the system are required, the Department will be contacted prior to modifications.

Semi-annual monitoring of the ECs shows that the system is operating as designed and in a consistent manner. In summary, the ICs and ECs remain in place and effective. The submission of the next PRR will be in August 2022.

1. SITE OVERVIEW

Sonoco entered into the VCA with the NYSDEC to remediate the Site. The VCA required Sonoco to investigate and remediate contaminated media at the Site. A figure showing the Site location and boundaries of this 11.636-acre Site is provided in Figure 1 and Figure 2. This Periodic Review Report (PRR) is required as a site management element of the remedial program for the Site.

Sonoco successfully completed the remedial work required by NYSDEC, which included:

- A. Excavation of grossly-contaminated media and soil exceeding Commercial Soil Cleanup Objectives (SCOs);
- B. Recovery of dense non-aqueous phase liquid (DNAPL) from around and beneath the former varnish pit;
- C. Construction and maintenance of a soil cover system consisting of the building slab, stone, and hard pavement to prevent human exposure to remaining contaminated soil/fill at the Site;
- D. Installation of a SSDS to prevent the migration of volatile organic compounds (VOCs) from below the building slab into indoor air;
- E. Recovery of light non-aqueous phase liquid (LNAPL) in the vicinity of monitoring well MW-23;
- F. Monitoring the natural attenuation of groundwater;
- G. Execution and recording of a Deed Restriction to restrict land and groundwater use and prevent future exposure to any contamination remaining at the Site; and
- H. Development and implementation of a SMP for long-term management of remaining contamination as required by the Deed Restriction, which includes plans for: (1) ICs and ECs; (2) monitoring; (3) O&M; and (4) reporting.

After the successful completion of this work, NYSDEC issued a Release and Covenant Not to Sue as of 16 March 2018.

Remaining contamination is being addressed by ECs pursuant to an SMP, which remains in effect. The SMP obligations are also reflected in ICs, including an Environmental Easement (EE) that has been duly recorded in accordance with ECL Article 71, Title 36.

The SMP requires the maintenance of the ECs, as well as the filing of PRRs to document that the ICs and ECs remain in place and continue to be effective. The SMP will be revised to reflect the current monitoring requirements approved by the NYSDEC per the Site Management Periodic Review Response Letter (November 2019).

2. EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

The following remedial action objectives (RAOs) were achieved by the groundwater and soil remedies.

Groundwater

RAOs for Public Health Protection

- Prevent exposure to affected ground water that poses a risk to public health and the environment given the intended use of the Site.

RAOs for Environmental Protection

- Prevent or minimize further migration of the contaminant plume (plume containment); and
- Prevent or minimize further migration of contaminants from source materials to groundwater (source control).

The ICs for groundwater use at the Site remain intact, prohibiting its use. Groundwater monitoring is currently performed every tenth quarter with the next event in in the 2nd quarter of 2023 to monitor VOC concentrations and the remedy of monitored natural attenuation (MNA).

Soil

RAOs for Public Health Protection

- Prevent ingestion, direct contact with, and/or inhalation of soil that poses a risk to public health and the environment given the intended use of the Site;
- Prevent inhalation of or exposure from compounds of potential concern (COPC) volatilizing from soil that poses a risk to public health and the environment given the intended use of the Site; and
- Prevent the potential for vapor intrusion into indoor air.

Sub-slab soil vapor is continually removed from beneath the building slab through the SSDS. Nine soil vapor extraction (suction) points penetrate the slab throughout the facility, where piping runs upwards to a central manifold in the mezzanine. From the manifold, the vapor is piped to the blower and then to a discharge point approximately 15 feet above the roof. There are two additional suction points in the boiler room (SP-03 and SP-04), where the piping runs to independent blowers that discharge to a point five feet above roof. The mezzanine SSDS has an automated remote monitoring system (telemetry) that was recently updated in February 2021 and now includes remote monitoring of SP-03 and SP-04. No SSDS downtime was recorded in this period.

3. INSTITUTIONAL CONTROLS AND ENGINEERING CONTROLS COMPLIANCE REPORT

The required Institutional & Engineering Controls Certification Form has been completed and signed by the Volunteer and by ERM Consulting & Engineering, Inc.'s (ERM) engineer-of-record (Appendix A). ERM conducted a Site-wide annual inspection on 28 June 2021. The results of the inspection are documented in the Inspection Form (Appendix B) and a photographic log (Appendix C). A summary of the status of the ICs and ECs is provided in the following sections.

3.1 Institutional Controls

A series of ICs is required by the SMP to: (1) implement, maintain and monitor EC systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to Commercial or Industrial uses only. Adherence to these ICs on the Site is required by the Deed Restriction and will be implemented under the SMP. These ICs are:

- Compliance with the Deed Restriction and the SMP by the Grantor and the Grantor's successors and assigns;
- All ECs must be operated and maintained as specified in the SMP;
- All ECs on the Site must be inspected at a frequency and in a manner defined in the SMP.
- Groundwater, soil vapor, and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to Site management must be reported at the frequency and in a manner defined in the SMP;

ICs identified in the Deed Restriction may not be discontinued without an amendment to or extinguishment of the Deed Restriction.

The Site has a series of ICs in the form of Site restrictions. Site restrictions that apply are:

- The property may only be used for commercial or industrial use provided that the long-term ECs and ICs included in the SMP are employed.
- The property may not be used for a higher level of use, such as unrestricted, residential, or restricted residential use without additional remediation and amendment of the Deed Restriction, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for the intended use;
- The potential for vapor intrusion must be evaluated for any buildings developed within the deed-restricted area, and any potential impacts that are identified must be monitored or mitigated;
- Vegetable gardens and farming on the property are prohibited;
- The Site owner or remedial party will submit to the NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Site 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. The NYSDEC retains the right to access the Site 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 the NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

Appendix A contains this signed certification.

In summary, the ICs remain in place and effective.

3.2 Engineering Controls

The Site has several ECs to protect public health and the environment. The subsections below describe the status of each EC.

3.2.1 Site Cover System

Exposure to remaining contamination in soil/fill at the Site is prevented by a soil cover system. This cover system is comprised of a minimum of 12 inches of clean soil, asphalt pavement, concrete-covered sidewalks, and/or concrete building slabs. A map showing the areal extent of these cover types is provided as Figure 3.

3.2.2 Sub-Slab Depressurization System

A SSDS was installed in the Site building to prevent exposure to potential soil vapor intrusion from contaminated soil and groundwater that exists beneath the building slab. The full-scale system has been operational since January 2013. Procedures for operating and maintaining the SSDS are documented in the O&M Plan (Section 4 of the SMP). Procedures for monitoring the system are included in the Monitoring Plan (Section 3 of the SMP). The Monitoring Plan also addresses severe condition inspections in the event that a severe condition, which may affect controls at the Site, occurs.

The goal of the full-scale SSDS is to maintain negative pressure across the portion of building's footprint that requires mitigation per the Decision Matrices. Currently, the SSDS is designed to maintain a negative pressure (i.e., vacuum) beneath the slab when the building is sealed and exhaust fans are operating. If measureable vacuum is obtained during such conditions, the SSDS will be considered to be effectively influencing that area.

Vacuum response measurements collected post-January 2013 through June 2021 inspections indicate that the system is meeting its design objectives. A map detailing the location of the SSDS components and sampling points is provided as Figure 4A and 4B.

4. MONITORING PLAN COMPLIANCE REPORT

4.1 Components of the Monitoring Plan

The following table summarizes the current elements of the monitoring program:

Monitoring Program	Frequency*	Environmental Matrix	Parameter or Analyses
SSDS	Semi-annually	Soil Vapor	Vacuum
NAPL thickness	Semi-annually	Groundwater	Water and NAPL level measurements
Groundwater	Every tenth quarter	Groundwater	Site-specific VOCs, groundwater field parameters
Soil cover system	Annual	Soil	Visual inspection; ensure integrity per the SMP requirements
Soil Vapor/indoor air at VAC-09	Annual	Soil Vapor/indoor air	Site-specific VOCs via EPA Method TO-15
SSDS exhaust (see details in Section 4.3 of the SMP)	Annual	Soil Vapor	Site-specific VOCs via EPA Method TO-15

* The frequency of events will be conducted as specified until otherwise approved by the NYSDEC and the NYSDOH. The frequencies shown herein were modified by NYSDEC in November 2019.

Operations Logs are provided in Appendix D.

4.2 Summary of Monitoring Completed

4.2.1 Site Cover System

An annual site inspection was performed to monitor the condition of the Site Cover System. The annual inspection identified surficial floor cracks in areas previously covered by operation equipment but overall confirmed that the integrity of the Site cover system remains intact. A copy of the inspection form is provided as Appendix B.

4.2.2 Sub-Slab Depressurization System

During this reporting period, semi-annual inspections have occurred to confirm that the SSDS is operating properly, and monitoring logs are compiled to record system parameters to assure the system is working effectively.

No major system changes were made in this period and SSDS effluent sampling was performed on 09 March 2021 in accordance with the approved SMP. Additionally, the DAR-1 assessment was performed using the most recent SSD exhaust and volume discharge rates and concluded that continued operation

of the SSDS without emission controls is acceptable. A summary of SSDS concentrations is presented in Table 1 and DAR-1 calculations are presented in Appendix F.

Vacuum measurements were collected semi-annually during this period from the system piping at the mezzanine blower unit and three piping manifolds. The results are summarized in the table below:

Mezzanine/Boiler Room Blower Inlet & Manifold Vacuum Measurements

	1/24/2013	12/18/2020	6/28/2021
Mezzanine Blower Inlet	-19	-18	-18
MAN-1	-3.55	-3.5	-4
MAN-2	-3.56	-3.7	-4
MAN-3	-3.35	-3.3	-4
SP-03	-0.81	-0.8	-0.725
SP-04	-1.94	-1.8	-1.864

*A negative pressure designates a vacuum.

Pressure readings collected from the system piping at the inlets to blowers and each manifold in June 2021 are similar to the readings obtained upon the modified system startup in January 2013 and those collected in December 2020. This indicates the system is working within the original system specifications. Historical SSDS data is presented in Table 2.

SSDS Influence Measurements

This reporting period’s results indicate similar vacuum response compared to the prior readings as shown in Figures 4A and 4B.

These vacuum measurements demonstrate that a consistent sub-slab vacuum was obtained in the majority of the building. Vacuum communication was observed during the all events this period on the central western side of the building at VAC-01, VAC-02, VAC-03 and VAC-07, in the former varnish pit area. Vacuum influence was not observed at VAC-11, VAC-16, VAC-19, VAC-20, VAC-32, VAC-34, VAC-37, VAC-41, VAC-54, VAC-56, and VAC-60 during the December 2020 monitoring, but a vacuum was observed at these points during the June 2021 event. Historical vacuum monitoring trends are presented in Figure 5.

No sub-slab intrusive work was conducted during this reporting period that would have disturbed or compromised the cover system.

Since start-up, the SSDS and remote monitoring telemetry has been performing effectively. If significant modifications to the system appear to be required, the NYSDEC will be contacted to discuss prior to performing the modifications.

4.2.3 Groundwater Monitoring

Per the 15 November 2019 NYSDEC response letter for the 2019 PRR, groundwater monitoring is to be performed every tenth quarter, ERM completed the groundwater monitoring event on 28 September through 29 November 2020. Groundwater monitoring network is presented in Figure 7 with shallow and intermediate groundwater contours are presented in Figure 8A and 8B.

ERM completed groundwater monitoring was performed in conformance with the SMP. Appendix E provides Data Usability Summary Reports. ERM will submit the validated analytical results to NYSDEC in a New York State-compliant Electronic Data Deliverable. A summary of VOC concentrations in groundwater from the 2020 monitoring event is included in Table 3.

During the 2020 monitoring event, ERM measured and recorded geochemical parameters on low flow sampling forms which can be found in Appendix G. All purge water generated was stored in a 55-gallon drum for eventual off-Site disposal as a hazardous waste. Waste documents are presented in Appendix H.

4.2.4 Indoor Air and Sub-Slab Vapor Monitoring

ERM completed annual sub-slab soil vapor and indoor air monitoring for 2020-2021 monitoring period on 9 March 2021 at VAC-09 to evaluate indoor air quality in an area with historically poor SSDS communication per the SMP. Figure 8 shows sample locations. A summary of VOC concentrations in soil gas and indoor/outdoor air is provided in Table 4.

4.2.5 NAPL Thickness and Recovery

On a semi-annual basis, the thickness of the DNAPL and LNAPL was measured in the following wells (see Figure 7 for locations):

- RW-1;
- RW-2;
- RW-4;
- RW-6;
- VMP-2;
- VMP-5;
- MW-20; and
- MW-23.

Historical NAPL thicknesses in wells is presented in Table 5. NAPL detected was recovered to the extent practicable at each event and stored in a 55-gallon drum and disposed -off- Site as a hazardous waste in December 2020 and July 2021. Waste documents are presented in Appendix G.

4.2.6 SSDS Telemetry Upgrade

Per the previously submitted 2020 PRR Section 5.2 entitled “Conclusions and Recommendations for Change”, a telemetry system upgrade for the mezzanine blower was completed in February 2021 as well as installing new telemetry for SP-03 and SP-04. After the modifications were completed, the system was re-started and is currently operating as intended.

4.2.7 Sale of the Facility

On 18 December 2020 Greif, Inc. ceased operations as documents in the change of use form submitted to the NYSDEC on 28 December 2020. The property and facility were then sold to Midwest Storage Developers LLC 16 July 2021 as documented by the change of use form submitted to the NYSDEC 9 July 2021. The sale of the property is not documented in the EC/IC certification as the sale occurred outside of the 6 July 2020 through 6 July 2021 reporting period.

4.3 Comparison with Remedial Objectives

Groundwater

Section 2 outlines the RAOs for groundwater, and Table 3 compares the groundwater monitoring results to NYSDEC's Technical and Operational Guidance Series (TOGS) Memorandum Number 1.1.1 (NYSDEC, 1998). As shown in Table 3, VOC concentrations in groundwater exceeded RAOs at some monitoring well locations, particularly monitoring wells inside the building in close proximity to the Former Varnish Pit Area. Figure 9 shows VOC concentration trend plots for monitoring wells sampled as part of the SMP to monitor the Site selected remedy of MNA. Overall, VOC concentrations in groundwater are stable or decreasing in the majority of monitoring wells. VOC concentrations for 1,1,1 – TCA at MW-20 are attributed to its proximity to the Former Varnish Pit Area where small quantities (less than 0.2 ft.) NAPL is recovered on a semi-annual basis as discussed in Section 4.2.5. Paired with the NAPL recovery, the remedial program of MNA for the Site has been effective at reducing VOC concentrations in groundwater.

Soil Vapor

Section 2.4 discusses RAOs for soil vapor; Table 4 show sub-slab soil vapor and indoor air data, respectively, at VAC-09. 1,1,1-trichloroethane (TCA), 1,1-dichloroethane, 1,1-dichloroethene, and trichloroethene (TCE) in soil vapor are at concentrations above the NYSDOH decision matrix thresholds (May 2017) at VAC-09. Of those compounds 1,1-dichloroethane and 1,1-dichloroethene were not detected in indoor air at concentrations above decision matrix thresholds: this indicates that the area of VAC-09 is preventing impacted soil vapors from migrating to indoor air and therefore no expansion of the SSDS is required.

1,1,1-TCA and TCE were detected in the IA sample, but below the NYSDOH decision matrix stage 1 threshold of 3 and 0.2 micrograms per cubic meter respectively and at a concentration four to six orders of magnitude below that found in the sub-slab. Carbon tetrachloride was also detected in the IA sample at VAC-09, but was also present in the outdoor ambient air sample at a similar concentration indicating that this is a background condition.

The SSDS continues to function as designed and is protective of public health. DAR-1 analysis indicates the system can continue to operate without emission controls.

4.4 Summary of Monitoring Deficiencies

The operational logs were completed in full compliance with the SMP. The system was inspected Semi-annually during this reporting period as approved by NYSDEC.

4.5 Conclusions and Recommendations for Change

The data collected during this reporting period indicates that the SSDS and monitoring program is functioning as designed and are meeting the RAOs for the Site.

The SMP monitoring program has been in place since January 2013 and data collected over this period supports the conclusion that the selected remedy continues to be effective.

The SSDS vacuum and influence data from January 2013 to June 2021 indicates that there is consistent SSDS vacuum and communication throughout the facility.

Monitoring of NAPL thicknesses has shown that NAPL is typically only present in measurable quantities in MW-20, MW-23, and RW-6. When NAPL is present in these wells, the quantity is minimal (less than 0.2 feet in thickness).

Groundwater sampling in 2020 continued to demonstrate VOC concentrations are decreasing and that the remedial program of MNA and NAPL product recovery at the Site is effective.

It was noted that the annual inspection was performed after operating equipment from Grief was removed from the facility and cracks in the floor were able to be observed. However, based upon system vacuum readings and supported by subsequent indoor air concentrations, the cracks appear to be surficial in nature and not impact the integrity of the cover system. It is recommended that the current site owner coordinate future building use and improvements with the Remedial Party to maintain the integrity of the cover system.

5. OPERATION AND MAINTENANCE PLAN COMPLIANCE REPORT

Routine maintenance and inspection was conducted to ensure that the SSD System is operating properly until the NYSDEC and the NYSDOH have determined no need for the system. On a monthly basis, the operator confirmed that the main blower is operating properly by remotely accessing the telemetry system.

Qualified building personnel confirmed operation of the boiler room blowers on a quarterly basis up until December 2020 when facility operations ceased. Remote monitoring was installed in February of 2021.

On a semi-annual basis, the operator visited the Site and performed the following activities.

- Collect measurements of sub-slab vacuum at all suction points (SP-01 through SP-11), all vacuum monitoring points (VAC-01 through VAC-62), and vacuum monitoring points for the Former Varnish Pit (PG-102 and PG-103);
- Collect operating data following the Treatment System Data Sheet (Appendix K of the SMP) and
- Inspect boiler room fans and ensure their operation.

On an annual basis, the following was performed:

- Conduct a visual inspection of the complete system.
- Inspect blower and inline fans for bearing failures or signs of other abnormal operations, and repair or replace if required.
- Inspect the discharge location of the vent pipes to ensure that no air intake or operable window has been located nearby.
- Determine, through discussions with building management, if any Heating, Ventilation, and Air Conditioning (HVAC) system modifications occurred that might affect the performance of the SSD System.
- Inspect the floor slab and foundation walls for evidence of cracks and/or holes, and repair of cracks and/or holes, if required.
- Inspect the integrity of the riser pipe and repair the riser pipe, if required.

These items are noted on the Site-Wide Inspection Form (Appendix F of the SMP).

5.1 O&M Deficiencies

The operational logs were completed in full compliance with the SMP. Inspections of the SSDS were performed and data collected indicated that the systems were operating as designed throughout the course of the reporting period.

SSDS System telemetry was checked on a monthly basis. However, some months the telemetry required a system restart and telemetry checks could not be recorded. A new telemetry was installed in February 2021 to the mezzanine SSDS, SP-03, and SP-04 and is performing as designed.

5.2 Conclusions and Recommendations for Change

The SSDS performed as designed during this reporting period. The SMP OM&M program has been in place since January 2013 and data collected over that period supports that the selected remedy is effective and O&M data has been consistent.

As a result of changes to the monitoring well network, NYSDEC approved changes in monitoring frequencies. In addition to the telemetry improvements, the SMP will be updated accordingly to reflect these changes and new ownership.

6. OVERALL PERIODIC REVIEW REPORT CONCLUSIONS AND RECOMMENDATIONS

A change in ownership of the Site occurred shortly after this reporting period and the use of the Site remains solely commercial or industrial in compliance with the Environmental Easement. Farming or vegetable gardens were not observed at the Site. Groundwater underlying the Site is reported by the Site owner as not being used in any manner and evidence of groundwater use was not observed at the Site. There has been no disturbance of the Site cover system during this reporting period.

The SSDS has performed as designed during this reporting period and meets the RAOs for the Site.

Since 2013, quarterly and annual monitoring of the ECs shows that the system is operating as designed. Continued monitoring at reduced levels and routine O&M measures as suggested assure the safe and effective operation of these ECs.

As Midwest Storage Developers LLC recently purchased the property 16 July 2021, Sonoco will continue to communicate with relevant parties to facilitate compliance with the SMP throughout this process.

A summary of ongoing action items is identified below:

- Continue implementing the SMP;
- Revise SMP to reflect current monitoring requirements and new ownership;
- Repair MW-22 well cover; and
- Submit next PRR in August 2022.

7. REFERENCES

ERM, 2016. Site Management Plan, Greif, Inc. Facility, 2122 Colvin Boulevard, Town of Tonawanda, Erie County, New York. NYSDEC VCP Number V00334-9, ERM, June 2016.

NYSDEC, 1997. Ambient Air Quality Impact Screening Analyses, Guidelines for Control of Toxic Ambient Air Contaminants, Division of Air Resources (DAR-1), Albany, November 12, 1997.

NYSDOH, 2017. Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Bureau of Environmental Exposure Investigation, Troy, May 2017

NYSDEC,. Technical & Operational Guidance Series (TOGS).

TABLES

Table 1
Summary of Treatment System Sampling Results March 2021
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9

Analyte	Location ID	SP-03	SP-04	SP-507
	Sample Date	3/8/2021	3/8/2021	3/8/2021
	Sample Type	N	N	N
	Unit			
1,1,1-Trichloroethane	µg/m3	1.69	< 1.09	2,620
1,1,2,2-Tetrachloroethane	µg/m3	< 1.37	< 1.37	< 8.58
1,1,2-trichloro-1,2,2-trifluoroethane (Freon)	µg/m3	< 1.53	< 1.53	< 9.58
1,1,2-Trichloroethane	µg/m3	< 1.09	< 1.09	< 6.82
1,1-Dichloroethane	µg/m3	< 0.809	< 0.809	60.7
1,1-Dichloroethene	µg/m3	< 0.793	< 0.793	240
1,2,4-Trichlorobenzene	µg/m3	< 1.48	< 1.48	< 9.28
1,2,4-Trimethylbenzene	µg/m3	< 0.983	< 0.983	< 6.15
1,2-dichloro-1,1,2,2-tetrafluoroethane (Freon)	µg/m3	< 1.40	< 1.40	< 8.74
1,2-Dichlorobenzene	µg/m3	< 1.20	< 1.20	< 7.52
1,2-Dichloroethane	µg/m3	< 0.809	< 0.809	< 5.06
1,2-Dichloropropane	µg/m3	< 0.924	< 0.924	< 5.78
1,3,5-Trimethylbenzene	µg/m3	< 0.983	< 0.983	< 6.15
1,3-Butadiene	µg/m3	< 0.442	< 0.442	< 2.77
1,3-Dichlorobenzene	µg/m3	< 1.20	< 1.20	< 7.52
1,4-Dichlorobenzene	µg/m3	< 1.20	< 1.20	< 7.52
1,4-Dioxane	µg/m3	< 0.721	< 0.721	9.59
2,2,4-Trimethylpentane	µg/m3	< 0.934	< 0.934	< 5.84
2-Butanone	µg/m3	1.65	< 1.47	< 9.20
2-Hexanone	µg/m3	< 0.820	< 0.820	< 5.12
4-Ethyltoluene	µg/m3	< 0.983	< 0.983	< 6.15
4-Methyl-2-pentanone	µg/m3	< 2.05	< 2.05	< 12.8
Acetone	µg/m3	3.09	< 2.38	< 14.8
Allyl chloride	µg/m3	< 0.626	< 0.626	< 3.91
Benzene	µg/m3	< 0.639	< 0.639	< 3.99
Benzyl chloride	µg/m3	< 1.04	< 1.04	< 6.47
Bromodichloromethane	µg/m3	< 1.34	< 1.34	< 8.37
Bromoform	µg/m3	< 2.07	< 2.07	< 12.9
Bromomethane	µg/m3	< 0.777	< 0.777	< 4.85
Carbon disulfide	µg/m3	< 0.623	< 0.623	< 3.89
Carbon tetrachloride	µg/m3	< 1.26	< 1.26	< 7.86
Chlorobenzene	µg/m3	< 0.921	< 0.921	< 5.76
Chloroethane	µg/m3	< 0.528	< 0.528	< 3.30
Chloroform	µg/m3	< 0.977	< 0.977	< 6.10
Chloromethane	µg/m3	0.779	0.502	< 2.58
cis-1,2-Dichloroethene	µg/m3	< 0.793	< 0.793	152
cis-1,3-Dichloropropene	µg/m3	< 0.908	< 0.908	< 5.67
Cyclohexane	µg/m3	< 0.688	< 0.688	< 4.30
Dibromochloromethane	µg/m3	< 1.70	< 1.70	< 10.6
Dichlorodifluoromethane (Freon 12)	µg/m3	1.85	1.74	< 6.18
Ethanol	µg/m3	< 9.42	< 9.42	< 58.8
Ethyl acetate	µg/m3	< 1.80	< 1.80	< 11.2
Ethylbenzene	µg/m3	< 0.869	< 0.869	< 5.43
Ethylene dibromide	µg/m3	< 1.54	< 1.54	< 9.61
Heptane	µg/m3	< 0.820	< 0.820	< 5.12
Hexachlorobutadiene	µg/m3	< 2.13	< 2.13	< 13.3
Isopropyl alcohol	µg/m3	< 1.23	< 1.23	< 7.67
m,p-Xylenes	µg/m3	< 1.74	< 1.74	< 10.9
Methyl tert-butyl ether	µg/m3	< 0.721	< 0.721	< 4.51
Methylene chloride	µg/m3	< 1.74	< 1.74	< 10.8
n-Hexane	µg/m3	< 0.705	< 0.705	< 4.41
o-Xylene	µg/m3	< 0.869	< 0.869	< 5.43
Styrene	µg/m3	< 0.852	< 0.852	< 5.32
tert-Butyl alcohol	µg/m3	< 1.52	< 1.52	< 9.46
Tetrachloroethene	µg/m3	< 1.36	< 1.36	< 8.48
Tetrahydrofuran	µg/m3	< 1.47	< 1.47	< 9.20
Toluene	µg/m3	1.11	< 0.754	< 4.71
trans-1,2-Dichloroethene	µg/m3	< 0.793	< 0.793	< 4.96
trans-1,3-Dichloropropene	µg/m3	< 0.908	< 0.908	< 5.67
Trichloroethene	µg/m3	< 1.07	< 1.07	1,420
Trichlorofluoromethane (Freon 11)	µg/m3	< 1.12	< 1.12	< 7.02
Vinyl bromide	µg/m3	< 0.874	< 0.874	< 5.47
Vinyl chloride	µg/m3	< 0.511	< 0.511	< 3.20

Notes:

< = Compound not detected at concentrations above the laboratory reporting detection limit. The laboratory reporting detection limit is shown.
N = Normal Environmental Sample
µg/m3 = micrograms per cubic meter
SP-507 = Main SSSS Effluent Sample

Table 2
Summary of Historical SSSD Data
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9

Location Units	Header Vacuum			Header Air Flow			Effluent			
	MAN-1 " H ₂ O	MAN-2 " H ₂ O	MAN-3 " H ₂ O	MAN-1 cfm	MAN-2 cfm	MAN-3 cfm	Pressure " H ₂ O	Temp °F	PID ppm	Flow cfm
Date										
1/24/2013	3.55	3.6	3.35	297.92	162.68	370.44	0.789	118	0.0	417.48
2/22/2013	3.4	3.4	3.3	252.84	147.00	299.88	0.794	120	0.0	295.96
3/25/2013	3	3.2	3.1	241.08	148.96	319.48	0.67	118	0.0	386.12
5/3/2013	5	4	3.7	239.12	137.20	299.88	0.75	121	0.0	366.52
7/31/2013	5	5	5	278.32	193.06	362.60	1.228	111	0.1	464.52
9/25/2013	4.9	4.9	4.7	282.24	170.52	399.84	0.727	109	0.1	509.60
11/20/2013	5	5	4.5	282.24	142.10	278.32	0.9	110	1.2	427.28
7/7/2014	5.5	5.5	5.5	254.80	176.40	343.00	1.11	119	0.4	397.88
10/22/2014	4.75	4.8	4.55	268.52	69.58	374.36	1.07	106	0.2	466.48
3/27/2015	5.5	5.5	5	282.24	76.44	382.20	1.5	104	0.8	544.88
6/10/2015	6.1	6.1	5.6	290.08	199.92	411.60	1.5	110	0.8	537.04
9/25/2015	6	6.5	6	272.44	194.04	384.16	1.047	109	0.4	552.72
12/11/2015	4.9	4.6	4.4	260.68	156.80	354.76	1.02	102	0.7	572.32
3/31/2016	5	5	4.5	262.64	159.74	393.96	0.98	104	0.4	537.04
6/2/2016	5	5	4.7	261.83	166.49	398.14	1.12	110	0.3	533.94
9/26/2016	4.7	4.7	4.5	243.04	159.74	450.80	1.2	104	0.7	511.56
12/28/2016	4.5	4.5	4.5	395.92	117.60	444.92	1.078	107	1.4	480.20
3/31/2017	4.6	4.6	4.4	266.56	144.06	450.80	1.2	108	1.9	464.52
6/15/2017	5.5	5.5	5	278.32	137.20	601.72	1.5	112	0.4	444.92
8/22/2017	5.5	5.5	5.1	254.80	160.72	419.44	1.4	115	0.6	429.24
12/18/2017	4.1	4.3	4.4	268.52	173.46	460.60	1.3	102	0.4	503.72
3/29/2018	4.6	4.6	4.35	256.76	150.92	413.56	1.037	96	0.1	521.36
6/22/2018	5.5	5.5	5	245.00	75.85	431.20	1.2	112	2.6	509.60
9/19/2018	5.5	5.5	5	239.12	161.70	452.76	1.5	112	0.5	517.44
12/13/2018	4.5	4.5	4.3	272.44	121.52	392.00	1.3	110	0.8	501.76
3/25/2019	5	4.8	4.9	264.60	101.92	229.32	2.1	105.4	0.4	366.52
6/28/2019	5	5.5	5	241.08	81.93	397.88	1.8	115	1.0	535.08
9/13/2019	5	5	5	80.75	110.74	111.72	1.3	109	1.4	354.76
12/30/2019	4.4	4.4	4.2	62.72	81.34	115.64	1.0	110	--	215.60
6/30/2020	5	5	5	321.44	96.04	615.44	0.798	119	0.4	454.72
12/18/2020	3.5	3.7	3.3	58.408	71.344	123.48	1.1	91.8	0.3	174.44
6/28/2021	4	4	4	161.7	79.576	174.44	1.2	119	0.6	513.52

Location Key

MAN-1 = Suction Pits 01, 02, interior former varnish pit, and horizontal suction points through former varnish pit's north, west, and south walls.

MAN-2 = Suction Pits 05 and 11.

MAN-3 = Suction Pits 06, 07, 08, 09, and 10

Notes:

Vacuum and pressure data is reported in inches of water.

Air flow data is based on measured air velocity and is reported in cubic feet per minute.

Temperature data is reported in degrees fahrenheit.

Average flow rates for SP-03 and SP-04 are presented in DAR-1 calculations.

Table 3
Summary of Groundwater Sampling Results September/October 2020
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9

Analyte	NY TOGS1.1.1 CLASS GA 1998 2004	Location ID	APW-3	MW-12	MW-13	MW-14	MW-14	MW-18	MW-19	MW-20	MW-22	MW-24	MW-25	MW-26	MW-27	
		Sample Date	9/28/2020	9/29/2020	9/29/2020	9/29/2020	9/29/2020	10/27/2020	9/28/2020	9/29/2020	9/29/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020
		Sample Type Unit	N	N	N	N	FD	N	N	N	N	N	N	N	N	N
1,1,1-Trichloroethane	5	µg/L	1,400	69	6,600	< 500	< 620	28	< 2.5	660,000	< 2.5	< 6.2	< 2.5	< 2.5	1.9 J	
1,1,2-Trichloroethane	1	µg/L	< 15	< 15	< 380	< 300	< 380	< 1.5	< 1.5	< 7,500	< 1.5	< 3.8	< 1.5	< 1.5	< 1.5	
1,1-Dichloroethane	5	µg/L	800	710	4,000	1,900	1,400	24	< 2.5	15,000	37	2.6 J	3.1	8.1	33	
1,1-Dichloroethene	5	µg/L	660	180	3,800	880	490	3.2	< 0.50	8,800	1.5	1.6	< 0.50	0.48 J	3.8	
1,2,4-Trimethylbenzene	5	µg/L	< 25	< 25	< 620	< 500	< 620	--	< 2.5	< 12,000	< 2.5	< 6.2	< 2.5	< 2.5	< 2.5	
1,2-Dichloroethane	0.6	µg/L	1.3 J	2.1 J	41 J	< 100	< 120	< 0.50	< 0.50	< 2,500	< 0.50	< 1.2	< 0.50	< 0.50	< 0.50	
1,2-Dichloroethene	NS	µg/L	16 J	880	4,500	760	500 J	--	< 2.5	< 12,000	18	240	4.7	< 2.5	1.2 J	
2-Butanone	50	µg/L	< 50	< 50	< 1,200	< 1,000	< 1,200	< 5.0	< 5.0	< 25,000	< 5.0	< 12	< 5.0	< 5.0	< 5.0	
4-Methyl-2-pentanone	NS	µg/L	< 50	< 50	< 1,200	< 1,000	< 1,200	< 5.0	< 5.0	< 25,000	< 5.0	< 12	< 5.0	< 5.0	< 5.0	
Acetone	50	µg/L	< 50	< 50	< 1,200	< 1,000	< 1,200	< 5.0	< 5.0	< 25,000	< 5.0	< 12	< 5.0	< 5.0	< 5.0	
Benzene	1	µg/L	< 5.0	< 5.0	< 120	< 100	< 120	< 0.50	< 0.50	< 2,500	< 0.50	2.9	0.33 J	< 0.50	< 0.50	
Chloroethane	5	µg/L	< 25	< 25	< 620	< 500	< 620	2.6	< 2.5	< 12,000	< 2.5	< 6.2	< 2.5	< 2.5	< 2.5	
Chloroform	7	µg/L	< 25	< 25	< 620	< 500	< 620	< 2.5	< 2.5	< 12,000	< 2.5	< 6.2	< 2.5	< 2.5	< 2.5	
cis-1,2-Dichloroethene	5	µg/L	16 J	850	4,500	760	500 J	3.1	< 2.5	< 12,000	18	240	4.7	< 2.5	1.2 J	
Ethylbenzene	5	µg/L	< 25	< 25	< 620	< 500	< 620	< 2.5	< 2.5	< 12,000	< 2.5	< 6.2	< 2.5	< 2.5	< 2.5	
m,p-Xylenes	5	µg/L	< 25	< 25	< 620	< 500	< 620	< 2.5	< 2.5	< 12,000	< 2.5	< 6.2	< 2.5	< 2.5	< 2.5	
Methylene chloride	5	µg/L	< 25	< 25	< 620	< 500	< 620	< 2.5	< 2.5	< 12,000	< 2.5	< 6.2	< 2.5	< 2.5	< 2.5	
o-Xylene	5	µg/L	< 25	< 25	< 620	< 500	< 620	< 2.5	< 2.5	< 12,000	< 2.5	< 6.2	< 2.5	< 2.5	< 2.5	
Tetrachloroethene	5	µg/L	< 5.0	< 5.0	< 120	< 100	< 120	< 0.50	< 0.50	< 2,500	< 0.50	< 1.2	< 0.50	< 0.50	< 0.50	
Toluene	5	µg/L	< 25	< 25	< 620	< 500	< 620	< 2.5	< 2.5	< 12,000	< 2.5	< 6.2	< 2.5	< 2.5	< 2.5	
trans-1,2-Dichloroethene	5	µg/L	< 25	25	< 620	< 500	< 620	< 2.5	< 2.5	< 12,000	< 2.5	< 6.2	< 2.5	< 2.5	< 2.5	
Trichloroethene	5	µg/L	< 5.0	150	26,000	25,000	28,000	2.4	< 0.50	150,000	6.8	360	< 0.50	< 0.50	6.4	
Vinyl chloride	2	µg/L	30	71	98 J	< 200	< 250	0.61	< 1.0	< 5,000	0.65 J	83	6.1	< 1.0	< 1.0	
Xylene, Total	5	µg/L	< 25	< 25	< 620	< 500	< 620	< 2.5	< 2.5	< 12,000	< 2.5	< 6.2	< 2.5	< 2.5	< 2.5	
Dissolved Gases	Ethane	NS	µg/L	5.06	0.96	0.854	< 0.500	< 0.500	< 0.500	< 0.500	11.9	< 0.500	49.9	3.18	< 0.500	< 0.500
	Ethene	NS	µg/L	6.33	2.04	13.2	0.822	0.944	< 0.500	< 0.500	1.93	< 0.500	15.5	< 0.500	< 0.500	< 0.500
	Methane	NS	µg/L	1,220	41.8	274	4.34	3.03	284	4.86	9.39	12.2	363	299	929	< 2.00
General Chemistry	Dissolved Organic Carbon	NS	mg/L	4.5	2.8	5.9	2.2	2.1	4	1.5	28	1.9	8.7	1.5	2.1	3.2
	Dissolved Solids, Total	NS	mg/L	740	1,100	1,300	620	600	1,000	600	1,500	1,300	1,100	4,400	1,700	670
	Sulfate	250	mg/L	74.8	275	98.4	71.9	68.1	--	67.4	470	590	408	2,440	1,150	96.6

Notes:
< = Compound not detected at concentrations above the laboratory reporting detection limit. The laboratory reporting detection limit is shown.
J = The analyte was positively identified; associated numerical value is the approximate concentration of the analyte in the sample.
-- = Not analyzed
NS = No Standard
N = Normal Environmental Sample
FD = Field Duplicate Sample
mg/L = milligrams per liter
µg/L = micrograms per liter
Bolded and Shaded results indicate exceedance of NY TOGS 1.1.1 standard

Table 4
Summary of Soil Vapor and Indoor/Ambient Air Results March 2021
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9

Analyte	Location ID	AA-SW	IA-VAC-09	IA-VAC-09	SSV-VAC-09
	Sample Date	3/9/2021	3/9/2021	3/9/2021	3/9/2021
	Sample Type	N	N	FD	N
	Unit				
1,1,1-Trichloroethane	µg/m3	< 0.109	0.627	0.551	16,400
1,1,2,2-Tetrachloroethane	µg/m3	< 1.37	< 1.37	< 1.37	< 52.2
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	µg/m3	< 1.53	< 1.53	< 1.53	< 58.3
1,1,2-Trichloroethane	µg/m3	< 1.09	< 1.09	< 1.09	< 41.5
1,1-Dichloroethane	µg/m3	< 0.809	< 0.809	< 0.809	1,810
1,1-Dichloroethene	µg/m3	< 0.079	< 0.079	< 0.079	1,530
1,2,4-Trichlorobenzene	µg/m3	< 1.48	< 1.48	< 1.48	< 56.4
1,2,4-Trimethylbenzene	µg/m3	< 0.983	< 0.983	< 0.983	< 37.4
1,2-dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	µg/m3	< 1.40	< 1.40	< 1.40	< 53.1
1,2-Dichlorobenzene	µg/m3	< 1.20	< 1.20	< 1.20	< 45.7
1,2-Dichloroethane	µg/m3	< 0.809	< 0.809	< 0.809	< 30.8
1,2-Dichloropropane	µg/m3	< 0.924	< 0.924	< 0.924	< 35.1
1,3,5-Trimethylbenzene	µg/m3	< 0.983	< 0.983	< 0.983	< 37.4
1,3-Butadiene	µg/m3	< 0.442	< 0.442	< 0.442	< 16.8
1,3-Dichlorobenzene	µg/m3	< 1.20	< 1.20	< 1.20	< 45.7
1,4-Dichlorobenzene	µg/m3	< 1.20	< 1.20	< 1.20	< 45.7
1,4-Dioxane	µg/m3	< 0.721	< 0.721	< 0.721	< 27.4
2,2,4-Trimethylpentane	µg/m3	< 0.934	< 0.934	< 0.934	< 35.5
2-Butanone	µg/m3	< 1.47	< 1.47	2.66	< 56.0
2-Hexanone	µg/m3	< 0.820	< 0.820	< 0.820	< 31.1
4-Ethyltoluene	µg/m3	< 0.983	< 0.983	< 0.983	< 37.4
4-Methyl-2-pentanone	µg/m3	< 2.05	< 2.05	< 2.05	< 77.9
Acetone	µg/m3	4.44	5.08	4.35	< 90.3
Allyl chloride	µg/m3	< 0.626	< 0.626	< 0.626	< 23.8
Benzene	µg/m3	< 0.639	0.655	0.642	< 24.3
Benzyl chloride	µg/m3	< 1.04	< 1.04	< 1.04	< 39.4
Bromodichloromethane	µg/m3	< 1.34	< 1.34	< 1.34	< 50.9
Bromoform	µg/m3	< 2.07	< 2.07	< 2.07	< 78.6
Bromomethane	µg/m3	< 0.777	< 0.777	< 0.777	< 29.5
Carbon disulfide	µg/m3	< 0.623	< 0.623	< 0.623	< 23.7
Carbon tetrachloride	µg/m3	0.459	0.459	0.478	< 47.8
Chlorobenzene	µg/m3	< 0.921	< 0.921	< 0.921	< 35.0
Chloroethane	µg/m3	< 0.528	< 0.528	< 0.528	< 20.1
Chloroform	µg/m3	< 0.977	< 0.977	< 0.977	< 37.1
Chloromethane	µg/m3	1.33	1.29	1.28	< 15.7
cis-1,2-Dichloroethene	µg/m3	< 0.079	< 0.079	< 0.079	< 30.1
cis-1,3-Dichloropropene	µg/m3	< 0.908	< 0.908	< 0.908	< 34.5
Cyclohexane	µg/m3	< 0.688	< 0.688	< 0.688	38.6
Dibromochloromethane	µg/m3	< 1.70	< 1.70	< 1.70	< 64.7
Dichlorodifluoromethane (Freon 12)	µg/m3	2.71	2.66	2.66	< 37.6
Ethanol	µg/m3	13.6	< 9.42	< 9.42	< 358
Ethyl acetate	µg/m3	< 1.80	< 1.80	< 1.80	< 68.5
Ethylbenzene	µg/m3	< 0.869	< 0.869	< 0.869	< 33.0
Ethylene dibromide	µg/m3	< 1.54	< 1.54	< 1.54	< 58.4
Heptane	µg/m3	< 0.820	< 0.820	< 0.820	102
Hexachlorobutadiene	µg/m3	< 2.13	< 2.13	< 2.13	< 81.1
Isopropyl alcohol	µg/m3	< 1.23	< 1.23	< 1.23	< 46.7
m,p-Xylenes	µg/m3	< 1.74	< 1.74	< 1.74	< 66.0
Methyl tert-butyl ether	µg/m3	< 0.721	< 0.721	< 0.721	< 27.4
Methylene chloride	µg/m3	< 1.74	< 1.74	< 1.74	< 66.0
n-Hexane	µg/m3	< 0.705	< 0.705	< 0.705	38.1
o-Xylene	µg/m3	< 0.869	< 0.869	< 0.869	< 33.0
Styrene	µg/m3	< 0.852	< 0.852	< 0.852	< 32.4
tert-Butyl alcohol	µg/m3	< 1.52	< 1.52	< 1.52	< 57.6
Tetrachloroethene	µg/m3	< 0.136	< 0.136	< 0.136	< 51.5
Tetrahydrofuran	µg/m3	< 1.47	< 1.47	< 1.47	< 56.0
Toluene	µg/m3	0.757	1.10	< 0.754	78.0
trans-1,2-Dichloroethene	µg/m3	< 0.793	< 0.793	< 0.793	< 30.1
trans-1,3-Dichloropropene	µg/m3	< 0.908	< 0.908	< 0.908	< 34.5
Trichloroethene	µg/m3	< 0.107	0.113	0.107	12,600
Trichlorofluoromethane (Freon 11)	µg/m3	1.40	1.40	1.37	< 42.7
Vinyl bromide	µg/m3	< 0.874	< 0.874	< 0.874	< 33.2
Vinyl chloride	µg/m3	< 0.051	< 0.051	< 0.051	< 19.4

Notes:

< = Compound not detected at concentrations above the laboratory reporting detection limit. The laboratory reporting detection limit is shown.
N = Normal Environmental Sample
FD = Field Duplicate Sample
µg/m3 = micrograms per cubic meter

Table 5
Summary of Historical Non-Aqueous Phase Liquid Thicknesses in Wells
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9

WELL	RW-1 (ft.) (DNAPL)	RW-2 (ft.) (DNAPL)	RW-4 (ft.) (DNAPL)	RW-5 (ft.) (LNAPL)	RW-6 (ft.) (DNAPL)	VMP-2 (ft.) (DNAPL)	VMP-5 (ft.) (DNAPL)	MW-20 (ft.) (DNAPL)	MW-23 (ft.) (LNAPL)
Date									
19-May-08	0.00	0.00	0.00	0.00	NI	0.00	HS	0.09	0.14
30-May-08	0.00	0.16	0.00	0.00	NI	0.00	HS	0.03	0.14
16-Jun-08	0.00	0.14	0.00	0.02	NI	0.00	0.02	0.07	0.13
25-Jun-08	0.00	0.16	0.00	0.02	NI	0.00	HS	0.07	0.26
3-Jul-08	0.00	0.16	0.00	0.02	NI	0.00	HS	0.09	0.18
23-Jul-08	0.00	0.16	0.00	0.02	NI	0.00	HS	0.10	0.09
6-Aug-08	0.03	0.16	0.00	0.04	NI	0.00	HS	0.11	0.09
19-Aug-08	0.03	0.16	0.00	0.04	NI	0.00	HS	0.13	0.11
21-Nov-08	HS	0.11	0.00	0.00	NI	0.00	HS	0.22	0.29
17-Dec-08	HS	0.11	0.00	0.00	NI	0.00	HS	0.24	0.29
14-Jan-09	0.00	0.00	0.00	0.00	NI	0.00	0.00	HS	0.13
26-Feb-09	0.00	0.00	0.00	0.00	NI	0.00	0.00	0.01	0.24
12-Mar-09	0.00	0.00	0.00	0.00	NI	0.00	0.00	0.00	0.09
22-Apr-09	0.00	0.00	0.00	0.00	NI	0.00	0.00	0.00	0.11
13-May-09	0.00	0.00	0.00	0.00	NI	0.00	0.00	0.00	0.09
25-Jun-09	NM	0.00	NM	0.00	NI	0.00	0.00	NM	0.12
17-Jul-09	NM	0.00	NM	0.00	NI	0.00	0.00	NM	0.11
27-Aug-09	0.00	0.00	0.00	0.00	NI	0.00	NM	NM	0.09
25-Sep-09	0.00	0.00	0.00	0.00	NM	0.00	NM	0.04	0.11
16-Oct-09	NM	0.00	0.00	0.00	NM	0.00	NM	NM	0.11
19-Nov-09	NM	0.00	NM	NM	NM	0.00	NM	NM	0.21
17-Dec-09	0.00	0.00	NM	NM	NM	0.00	0.00	0.01	0.23
14-Jan-10	0.00	0.00	0.00	NM	NM	0.00	0.00	0.01	0.21
17-Feb-10	0.00	0.00	NM	NM	NM	0.00	0.00	0.01	0.17
18-Mar-10	0.00	0.00	0.00	0.00	NM	0.00	0.00	0.01	0.09
13-Apr-10	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.01	0.12
18-May-10	0.00	0.00	0.00	0.00	0.53	0.00	NM	0.01	0.08
15-Jun-10	0.00	0.00	0.00	NM	0.01*	0.00	0.00	0.01	0.07
14-Jul-10	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.07
13-Aug-10	0.00	NM	0.00	NM	0.08	0.00	0.00	HS	0.10
14-Sep-10	0.00	NM	0.00	NM	0.04	0.00	0.00	NM	0.06
14-Oct-10	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.01	0.08
22-Nov-10	0.00	0.00	NM	0.00	0.04	0.00	0.00	0.01	0.14
15-Dec-10	0.00	0.00	0.00	NM	0.01	0.00	NM	0.01	0.09
18-Jan-11	0.00	0.00	0.00	NM	HS	0.00	NM	0.02	0.09
21-Feb-11	NM	0.00	0.00	0.00	0.03	0.00	0.00	0.03	0.04
11-Mar-11	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.04	0.03
21-Apr-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
24-May-11	0.00	0.00	0.00	NM	0.15	0.30	0.00	0.10	0.10
21-June-11	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.03	0.08
21-July-11	0.00	0.00	0.00	NM	HS	0.00	0.00	0.01	0.06
29-Aug-11	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	HS
26-Sept-11	0.00	NM	0.00	0.00	0.10	0.00	NM	0.04	HS

Table 5
Summary of Historical Non-Aqueous Phase Liquid Thicknesses in Wells
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9

WELL	RW-1 (ft.) (DNAPL)	RW-2 (ft.) (DNAPL)	RW-4 (ft.) (DNAPL)	RW-5 (ft.) (LNAPL)	RW-6 (ft.) (DNAPL)	VMP-2 (ft.) (DNAPL)	VMP-5 (ft.) (DNAPL)	MW-20 (ft.) (DNAPL)	MW-23 (ft.) (LNAPL)
Date									
28-Oct-11	0.00	0.00	NM	0.00	0.03	0.00	0.00	0.02	HS
18-Nov-11	0.00	0.00	NM	NM	HS	0.00	0.00	0.01	0.04
22-Dec-11	0.00	0.00	NM	NM	0.03	0.00	0.00	0.02	0.06
20-Jan-12	0.00	0.00	0.00	0.00	HS	0.00	0.00	0.02	HS
21-Feb-12	0.00	0.00	0.00	0.00	HS	0.00	0.00	0.03	HS
16-Mar-12	0.00	0.00	0.00	0.00	HS	0.00	0.00	HS	0.15
20-Apr-12	0.00	0.00	NM	NM	HS	0.00	0.00	0.02	0.02
17-May-12	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.01	0.03
20-Jun-12	0.00	0.00	0.00	0.00	HS	0.00	0.00	0.01	0.04
20-Jul-12	NM	0.00	NM	0.00	HS	0.00	0.00	NM	0.02
21-Aug-12	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.12	0.19
14-Sept-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09
17-Oct-12	0.00	0.00	0.00	0.00	0.11	0.00	NM	0.14	0.09
20-Nov-12	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.02	HS
19-Dec-12	0.00	0.00	NM	0.00	HS	0.00	0.00	0.03	0.06
24-Jan-13	0.00	0.00	0.00	0.00	HS	0.00	0.00	0.03	0.09
22-Feb-13	NM	NM	NM	NM	NM	NM	NM	NM	NM
25-Mar-13	0.00	0.00	NM	NM	0.04	0.00	0.00	0.04	HS
3-May-13	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.02	0.00
31-Jul-13	0.00	0.00	NM	NM	HS	0.00	0.00	0.04	0.03
25-Sept-13	0.00	0.00	0.00	0.00	HS	0.00	0.00	0.06	HS
20-Nov-13	0.00	0.00	0.00	NM	0.09	0.00	0.00	0.00	0.12
7-Jul-14	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.08	0.12
22-Oct-14	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.03	0.06
27-Mar-15	0.00	0.00	0.00	NM	0.04	0.00	0.00	0.12	0.12
10-June-15	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.13	0.12
25-Sept-15	0.00	0.00	NM	NM	0.02	0.00	0.00	0.02	0.05
11-Dec-15	0.00	0.00	NM	NM	0.16	0.00	0.00	0.03	0.12
31-Mar-16	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.02	0.10
2-June-16	0.00	0.00	NM	NM	0.02	0.00	0.00	0.02	0.11
26-Sept-16	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.03	0.06
28-Dec-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.15
31-Mar-17	0.00	0.00	NM	0.00	0.04	0.00	0.00	0.02	0.10
15-Jun-17	0.00	0.00	NM	0.00	0.04	0.00	0.00	0.01	0.05
22-Aug-17	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.02	0.07
18-Dec-17	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.02	0.06
29-Mar-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.15
23-Jun-18	0.00	NM	NM	NM	0.03	0.00	0.00	0.01	0.10
19-Sept -18	0.00	0.00	0.00	0.00	HS	0.00	0.00	0.02	0.09
13-Dec-18	0.00	0.00	0.00	0.00	0.04	0.00	0.00	HS	0.07
29-Mar-19	0.00	0.00	0.00	0.00	HS	0.00	0.00	0.00	NM
27-Mar-19	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	NM
27-Jun-19	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	NM
13-Sep-19	0.00	0.00	0.00	0.00	HS	0.00	0.00	HS	0.00
29-Dec-19	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
30-Jun-20	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.32
18-Dec-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28-Jun-21	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.08

Notes:

All values are reported in feet as measured with an electronic interface probe.

HS - heavy sheen but no measureable thickness.

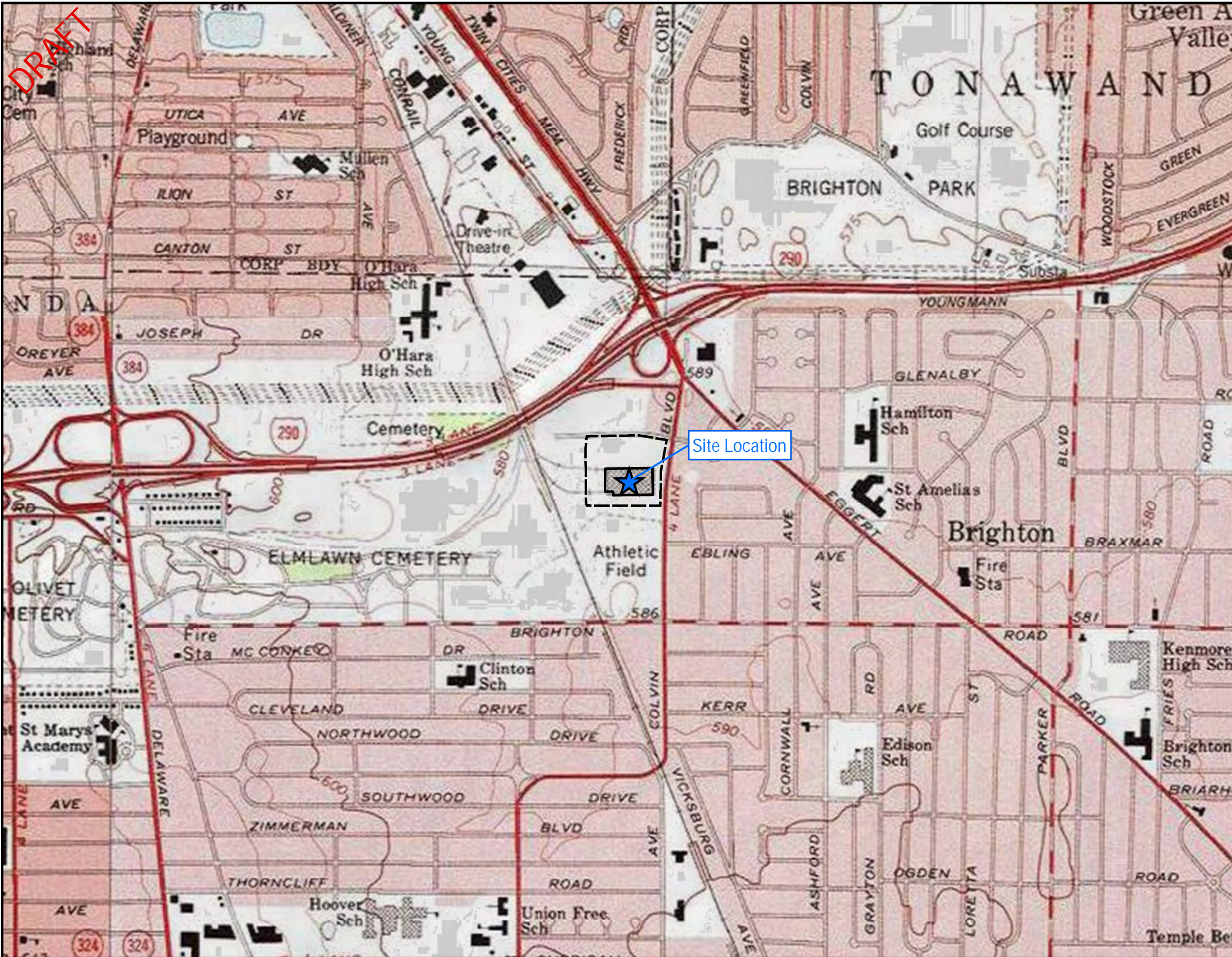
NM - not measured

NI - not installed as of this date.

* - Product level after ERM initiated DNAPL recovery test

FIGURES

DRAFT



Legend

- Building Outline
- Tax Parcel Boundary

NOTES:

1. Tax parcel boundary is approximate in extent and obtained from Eerie County, NY 2017.

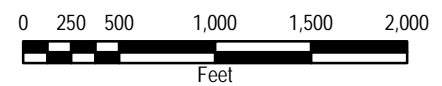
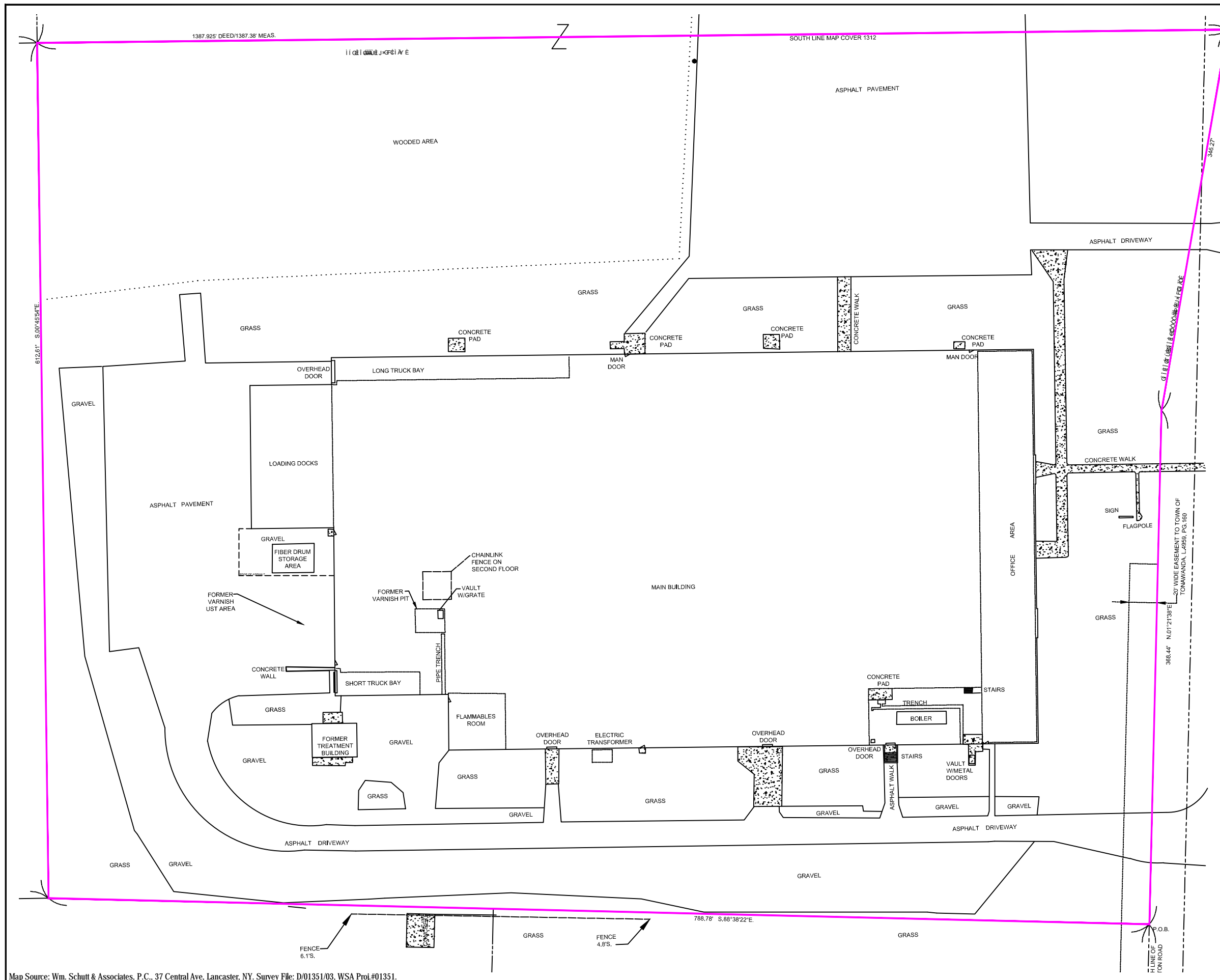


Figure 1
Site Location Map
Sonoco Products Company
Tonawanda, NY

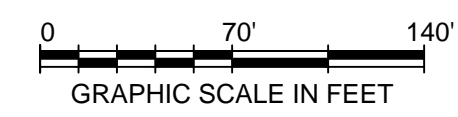




LEGEND

— Deed Restriction Boundary

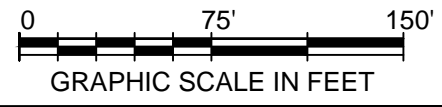
■ Concrete Pad



TITLE FIGURE 2 - SITE LAYOUT & BOUNDARIES GREIF FACILITY-TONAWANDA, NEW YORK NYSDEC VCP NUMBER V00334-9			
PREPARED FOR SONOCO PRODUCTS COMPANY			
Environmental Resources Management		FIGURE 1	
DRAWN BY EMF	SCALE GRAPHIC	DATE 14 JANUARY 2015	JOB NO. 0194591.03

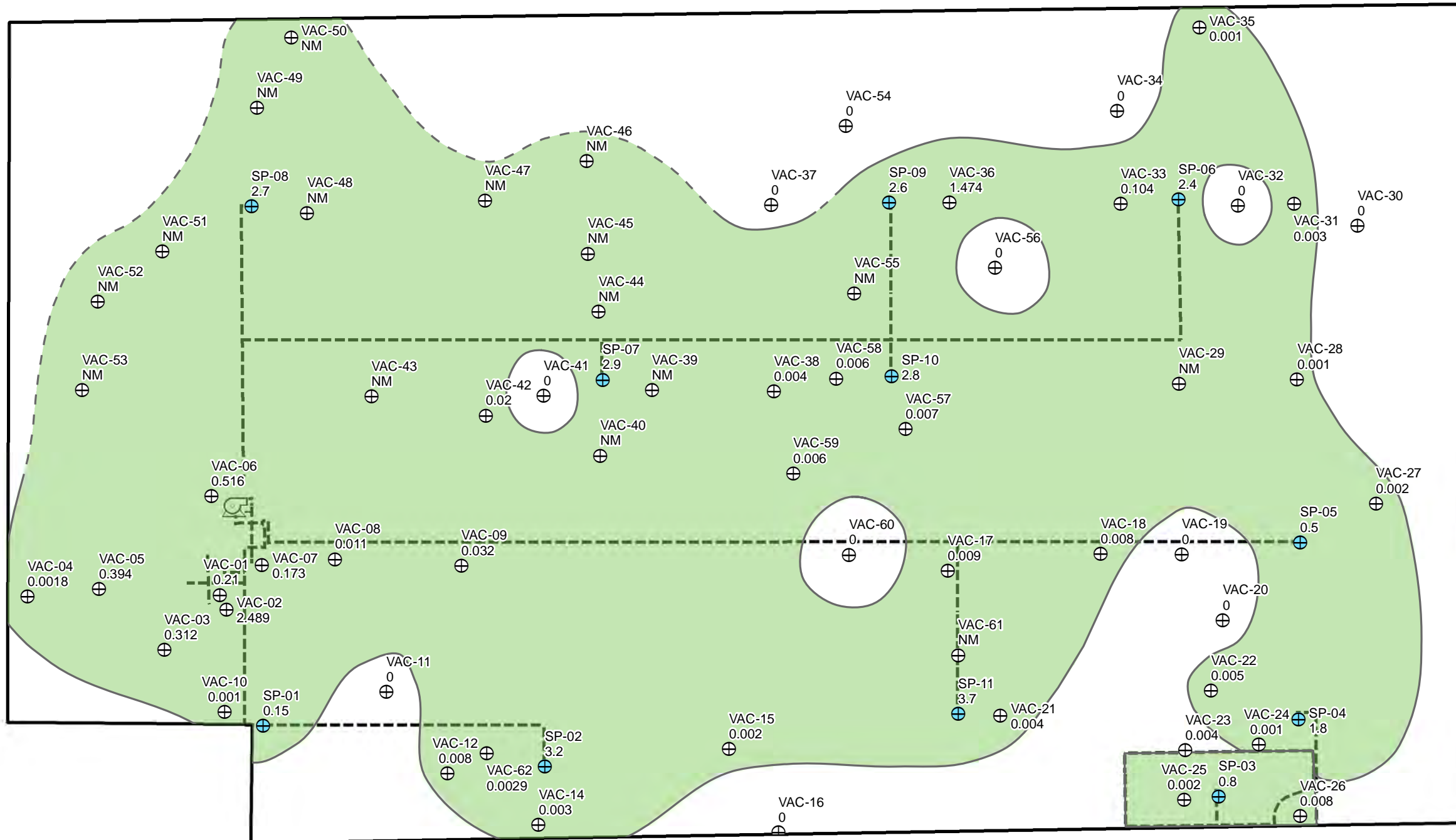


- LEGEND**
- Property Line and Deed Restriction Boundary
 - Soil Cover System - Building Slab
 - Concrete Pad
 - Estimated Lateral Extent of Soil Exhibiting Signs of NAPL, Heavy Odor, Sheen, and/or Significantly Elevated PID Readings
 - Soil Cover System in GB-10/Formal Drum Storage UST Area. Area Shown Represents Estimated Extent of Remaining Soil Above Unrestricted use SCOs.
 - Soil Cover System in Former Varnish UST Area. Area Shown Represents Estimated Extent of Remaining Soil Above Unrestricted use SCOs.



TITLE			
FIGURE 3 - LOCATION OF COVER SYSTEM TYPES GREIF FACILITY-TONAWANDA, NEW YORK NYSDEC VCP NUMBER V00334-9			
PREPARED FOR SONOCO PRODUCTS COMPANY			
Environmental Resources Management		FIGURE 3	
DRAWN BY	SCALE	DATE	JOB NO.
EMF	GRAPHIC	21 MARCH 2014	0194591.03

Map Source: Wm. Schutt & Associates, P.C., 37 Central Ave, Lancaster, NY. Survey File: D/01351/03, WSA Proj.#01351.



Legend

- Vertical Suction Point
- Vacuum Monitoring Point
- Modeled Vacuum Extent Boundary
- Inferred Vacuum Extent Boundary
- Estimated Extent of Sub-Floor Vacuum
- Building Outline
- SSD Piping
- Pump Location

NOTES:

1. Vacuum strength is reported in inches of water.
2. Measurements were collected on 12/18/2020.
3. NM = not measured.
4. Estimated extent of vacuum was modeled using topo-to-raster methods in ArcGIS 10.5.

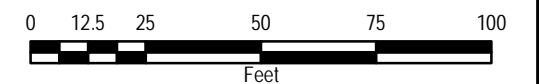
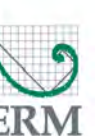
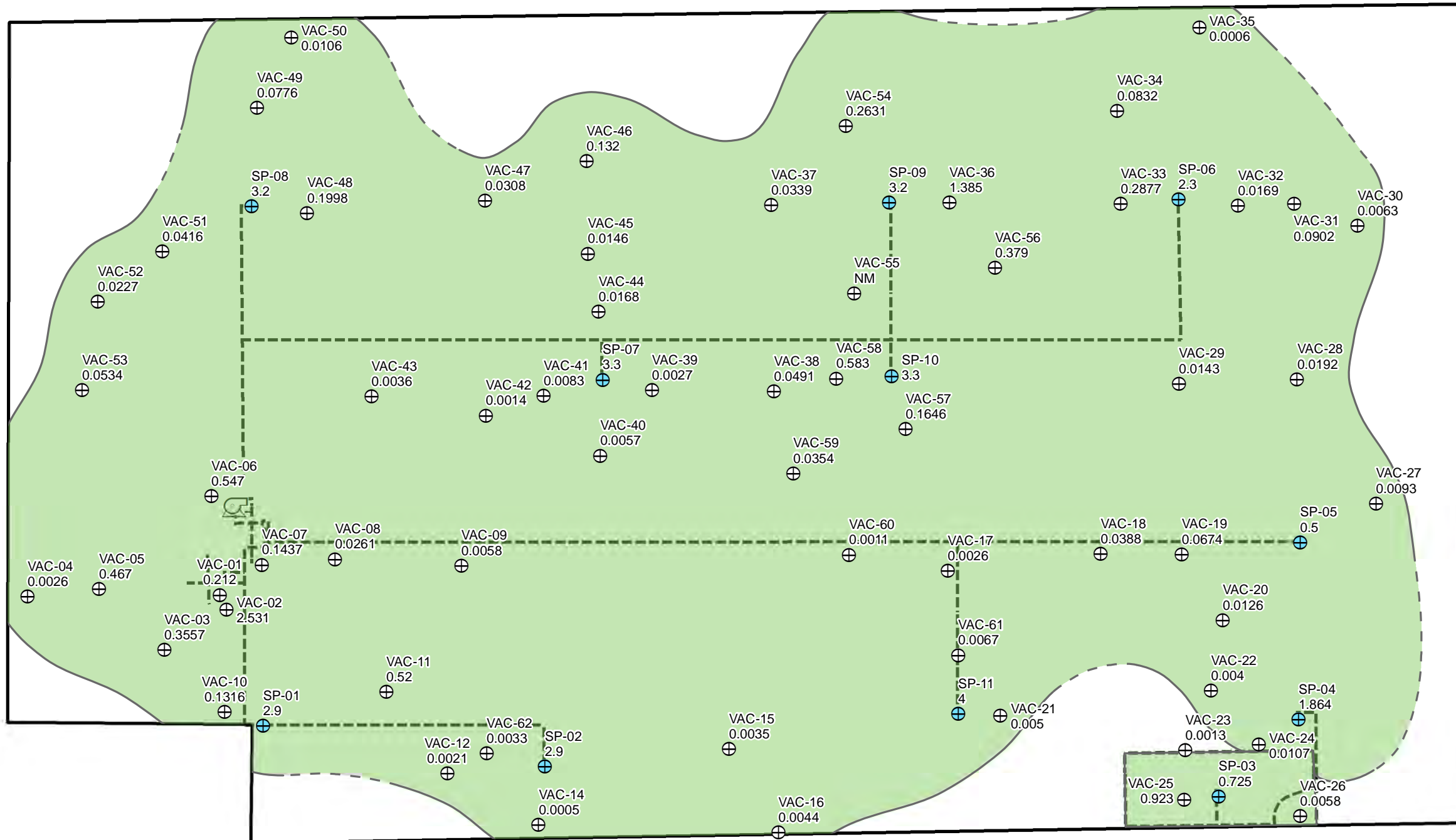


Figure 4A
 December 2020 Subsurface
 Vacuum Distribution
 Sonoco Products Company
 Tonawanda, NY





Legend

- Vertical Suction Point
- Vacuum Monitoring Point
- Modeled Vacuum Extent Boundary
- Inferred Vacuum Extent Boundary
- Estimated Extent of Sub-Floor Vacuum
- Building Outline
- SSD Piping
- Pump Location

NOTES:

1. Vacuum strength is reported in inches of water.
2. Measurements were collected on 6/28/2021.
3. NM = not measured.
4. Estimated extent of vacuum was modeled using topo-to-raster methods in ArcGIS 10.5.

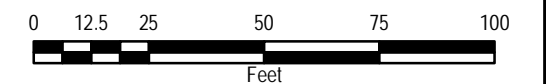


Figure 4B
 June 2021 Subsurface Vacuum
 Distribution
 Sonoco Products Company
 Tonawanda, NY

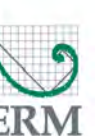


Figure 5
 Historical Vacuum Monitoring Data
 Greif Facility – Tonawanda, NY NYDEC VCP Number V00334-9

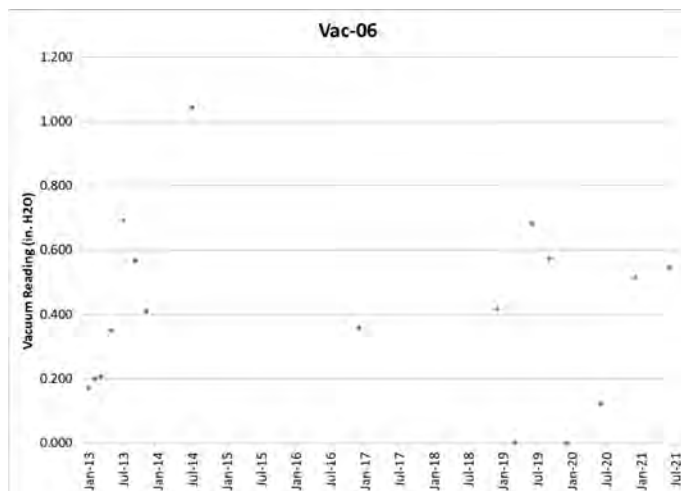
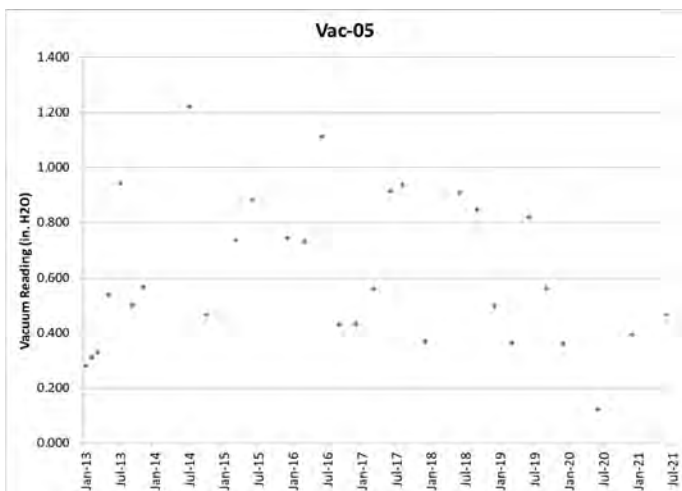
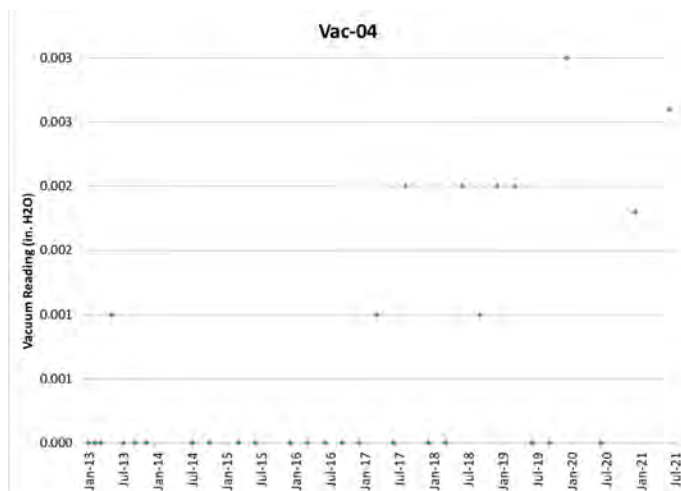
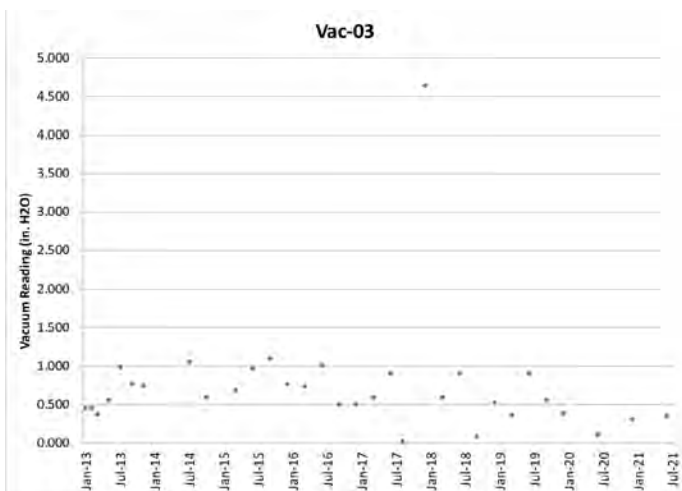
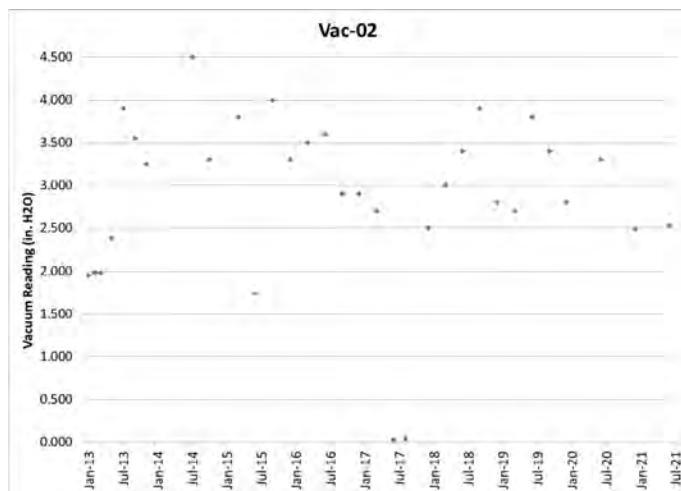
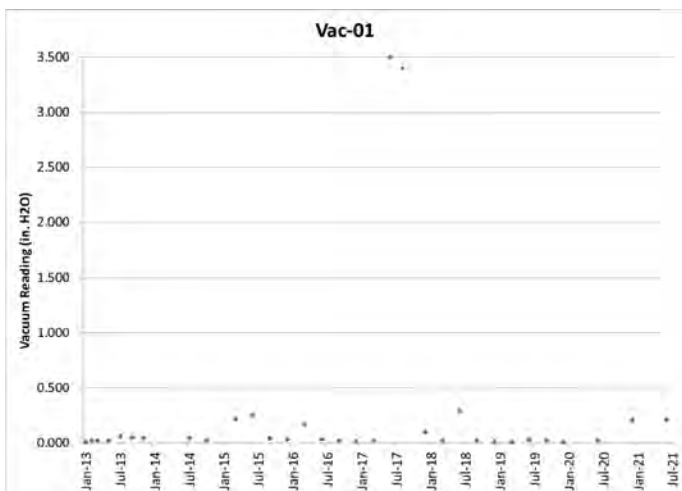


Figure 5
 Historical Vacuum Monitoring Data
 Greif Facility – Tonawanda, NY NYDEC VCP Number V00334-9

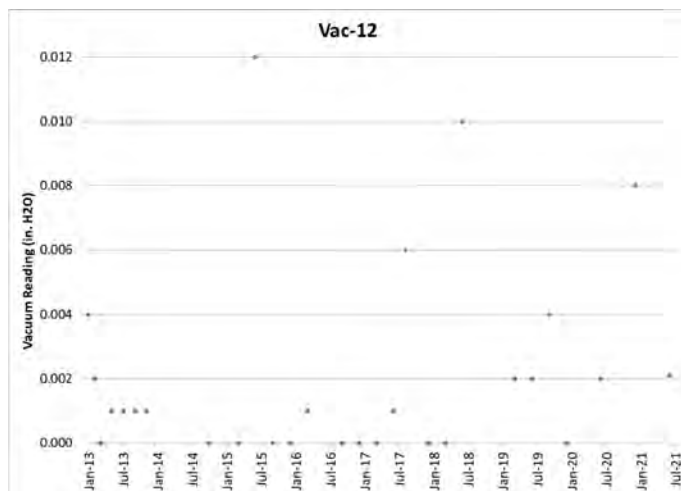
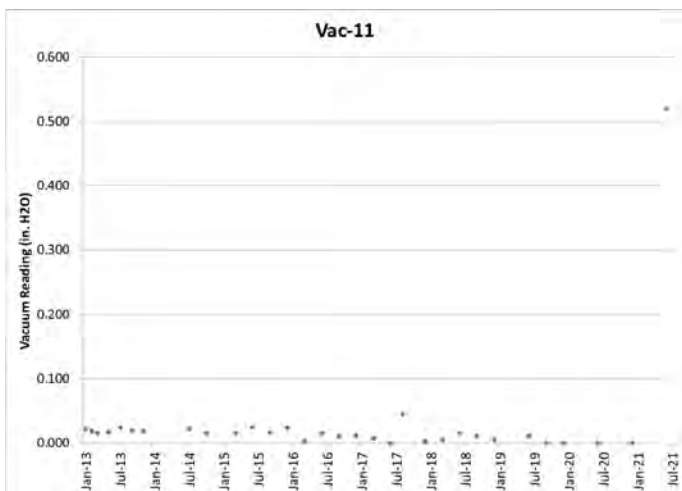
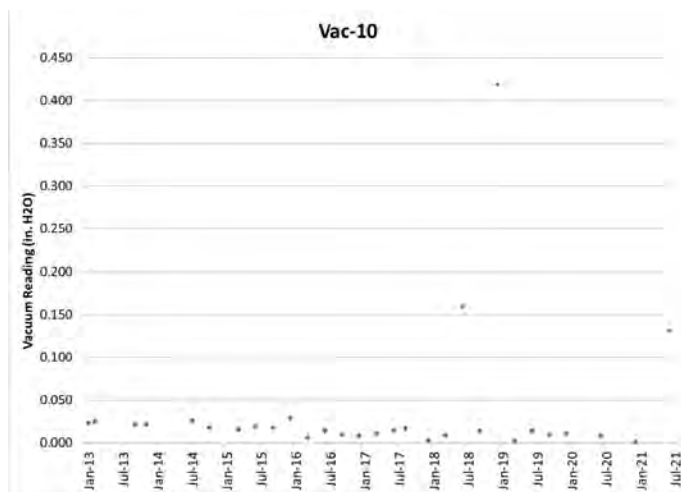
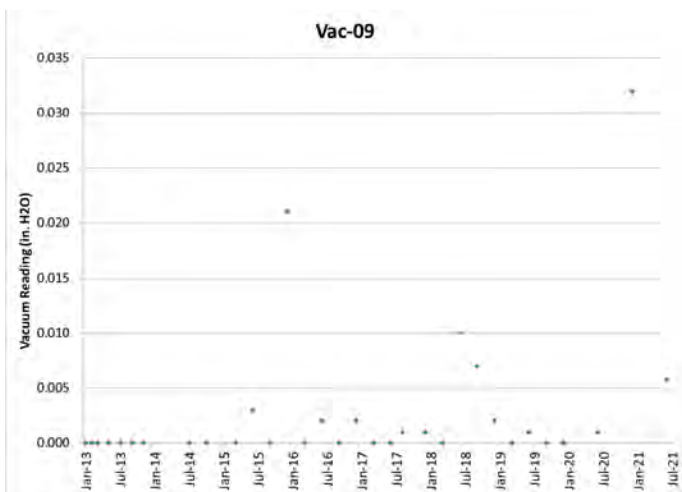
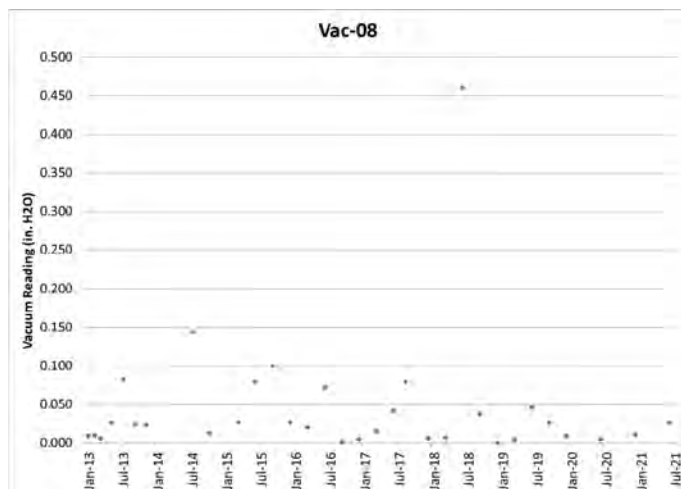
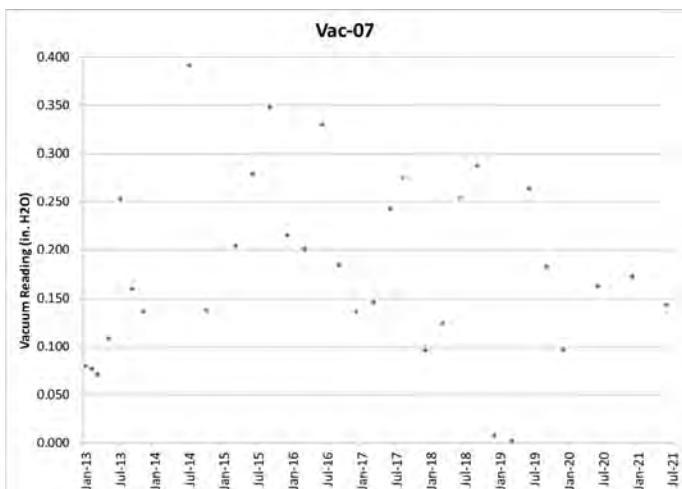


Figure 5
 Historical Vacuum Monitoring Data
 Greif Facility – Tonawanda, NY NYDEC VCP Number V00334-9

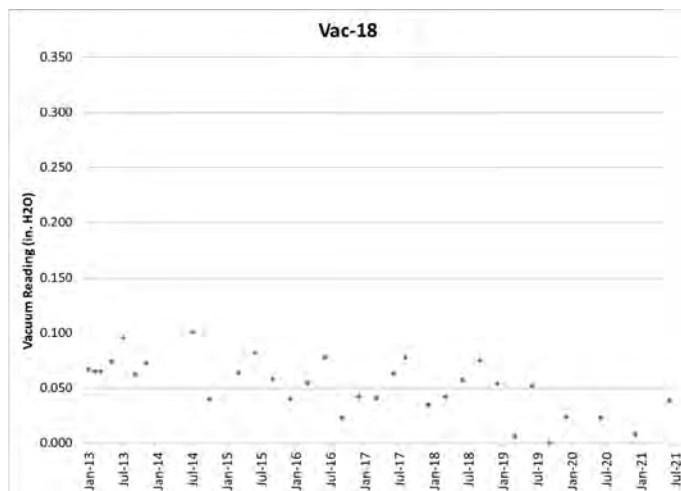
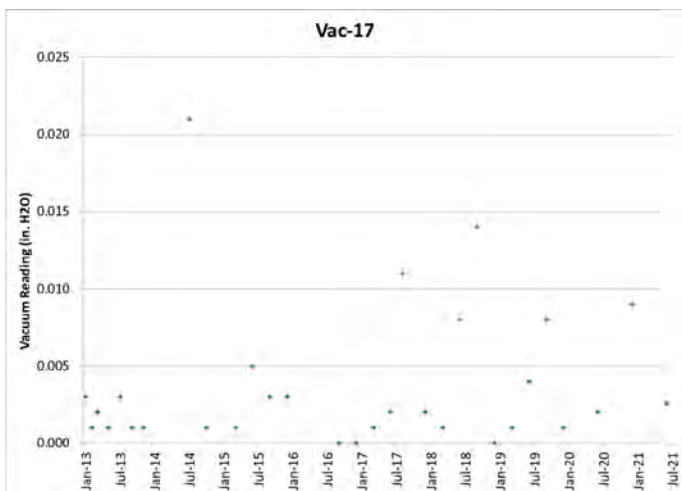
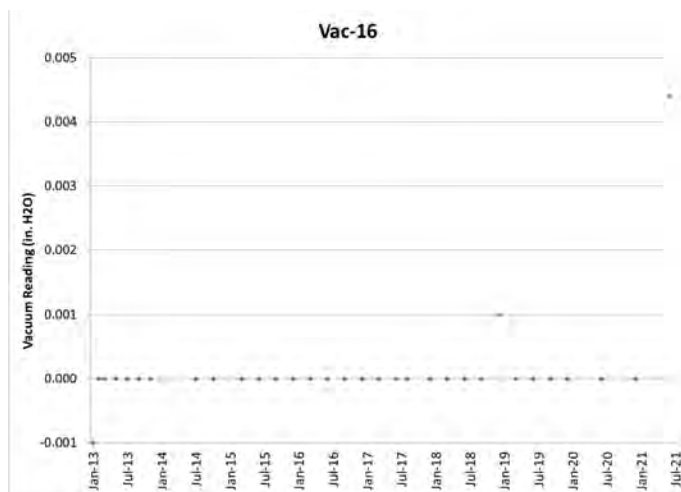
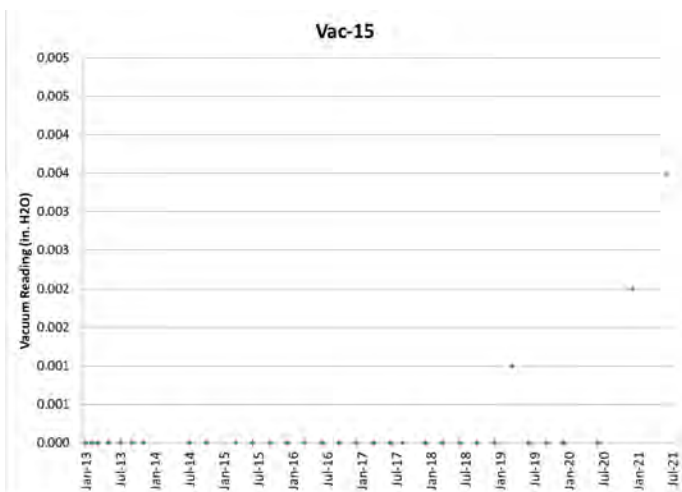
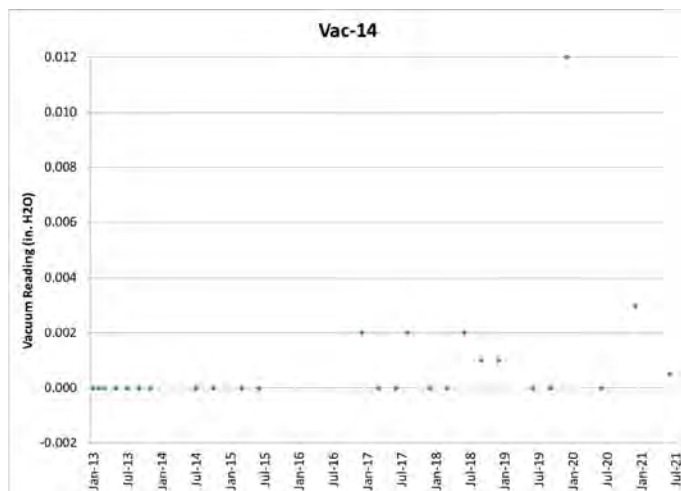
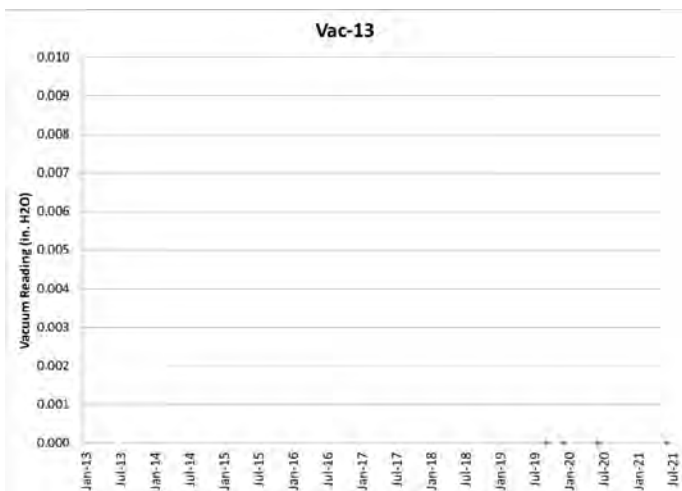


Figure 5
 Historical Vacuum Monitoring Data
 Greif Facility – Tonawanda, NY NYDEC VCP Number V00334-9

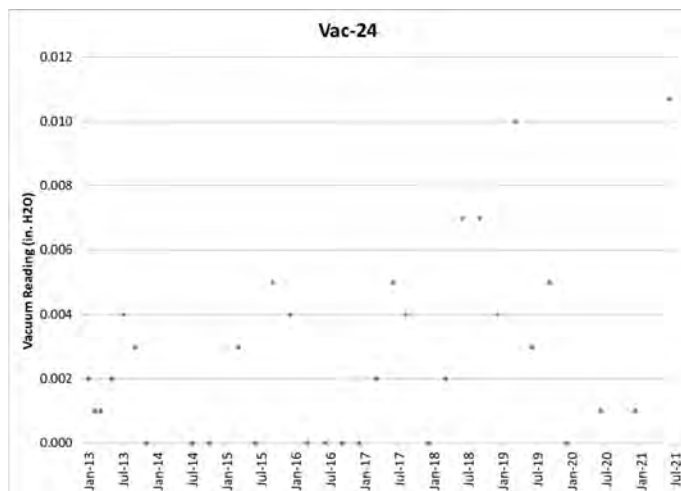
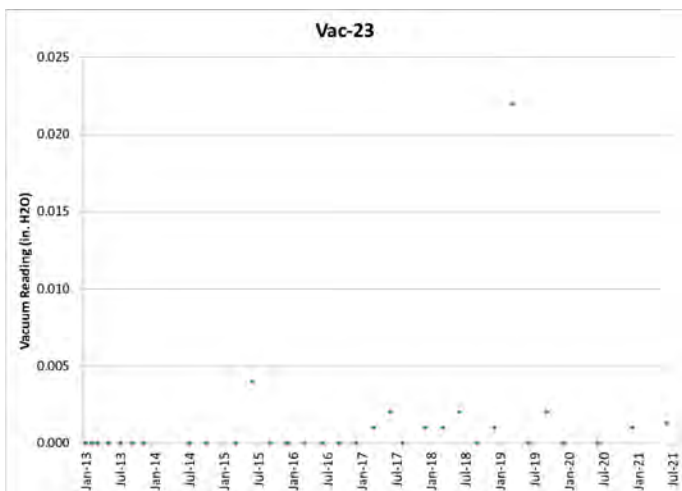
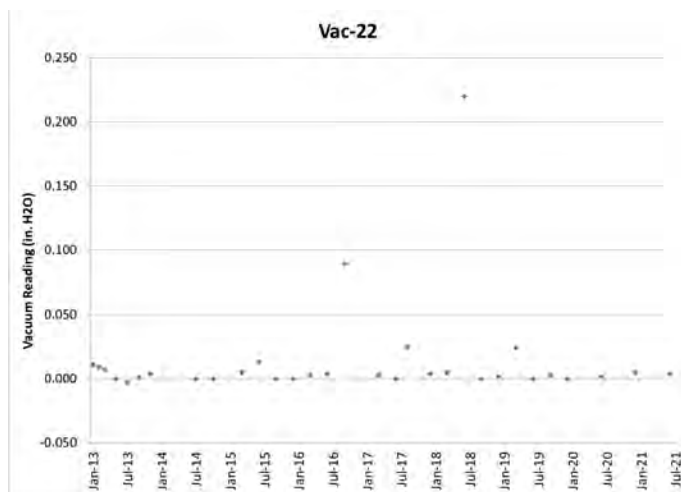
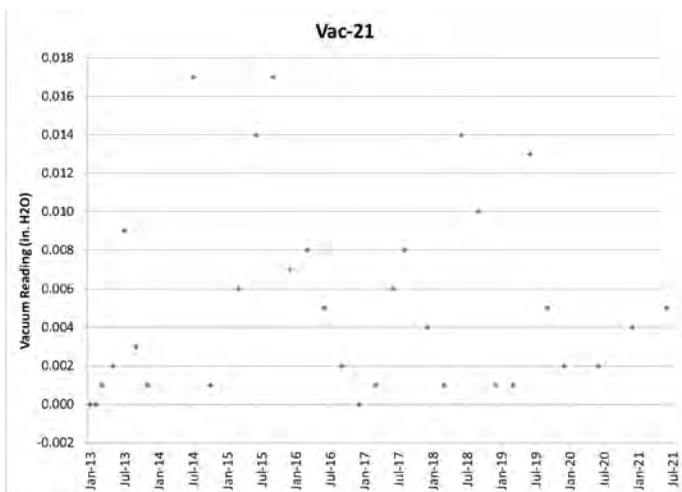
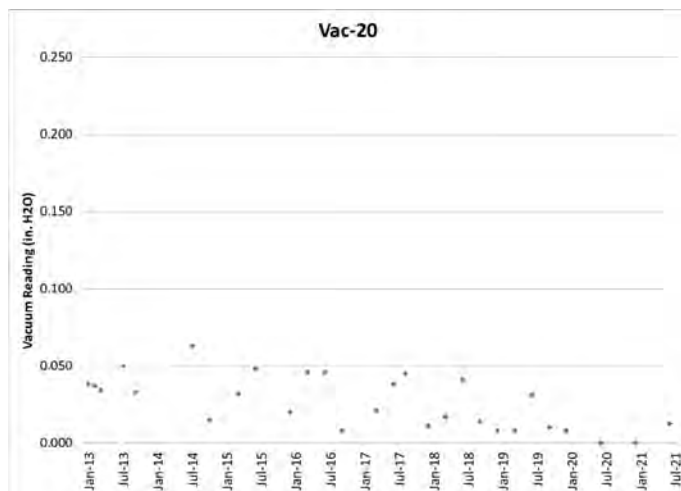
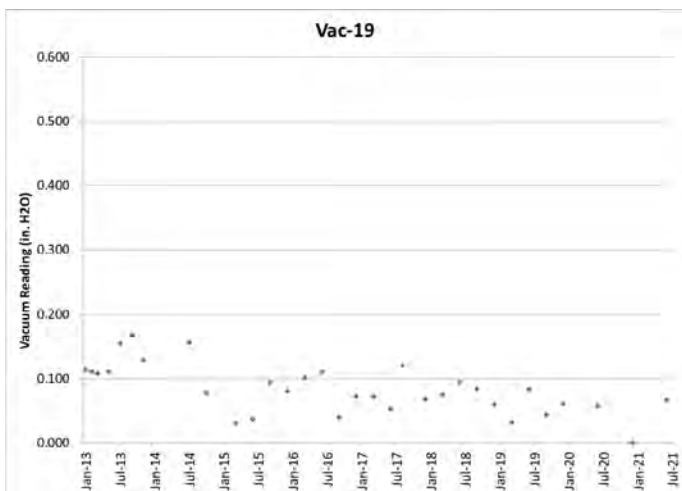


Figure 5
 Historical Vacuum Monitoring Data
 Greif Facility – Tonawanda, NY NYDEC VCP Number V00334-9

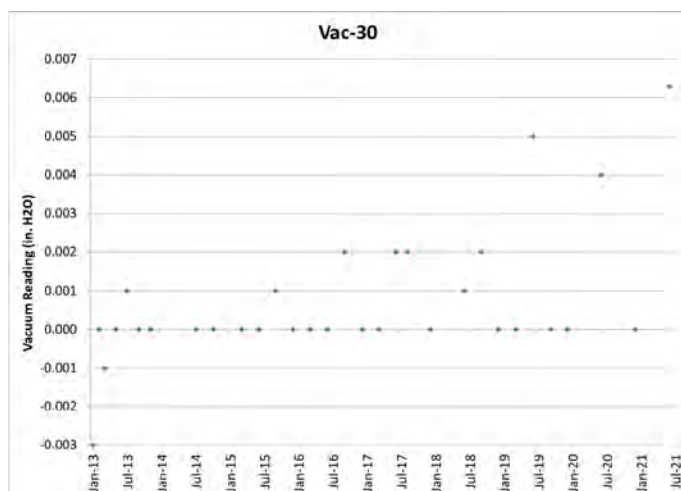
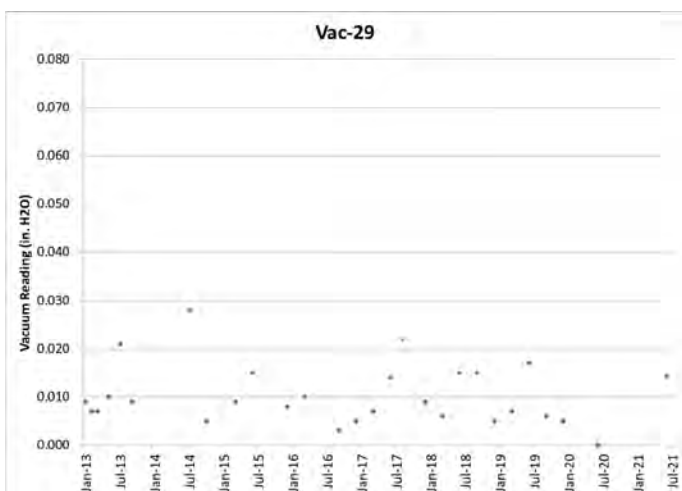
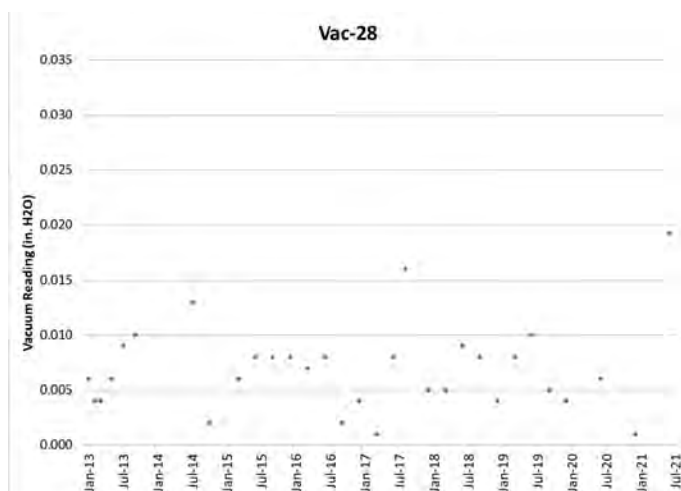
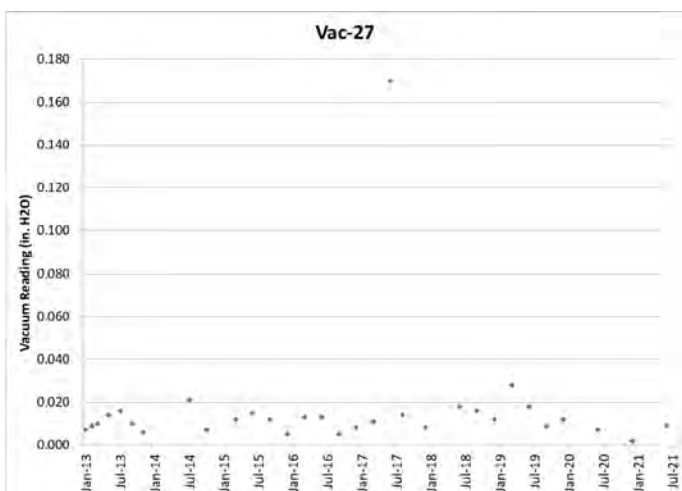
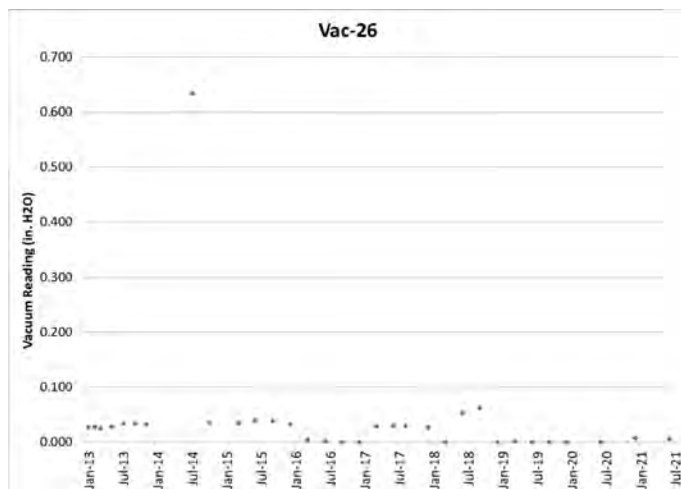
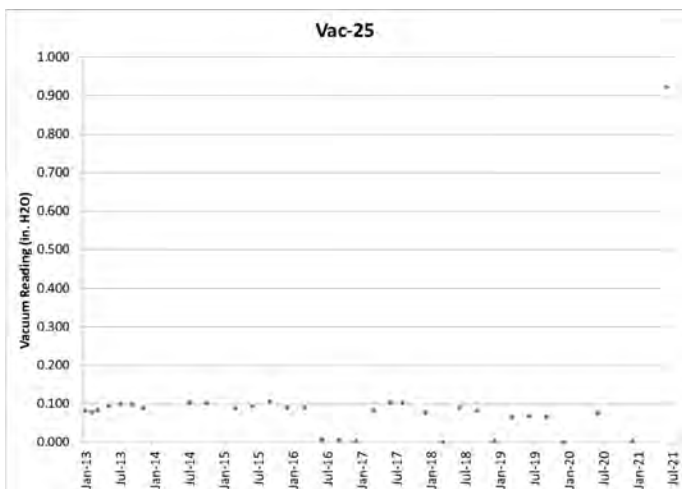


Figure 5
 Historical Vacuum Monitoring Data
 Greif Facility – Tonawanda, NY NYDEC VCP Number V00334-9

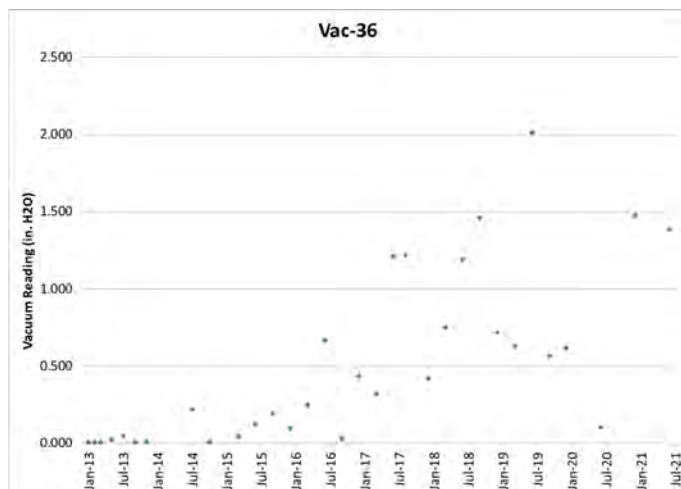
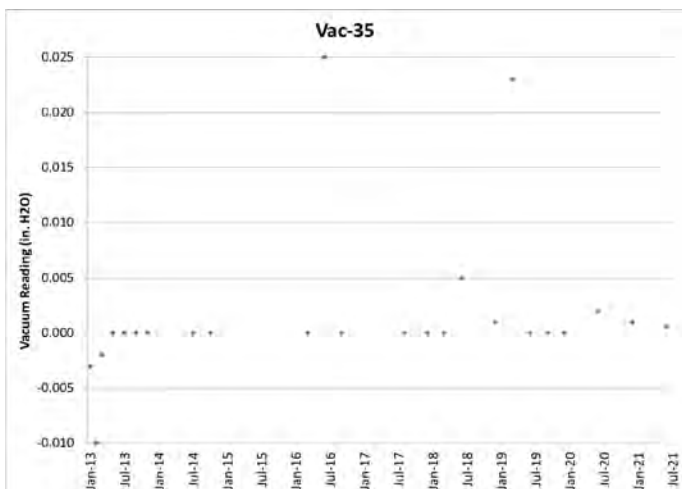
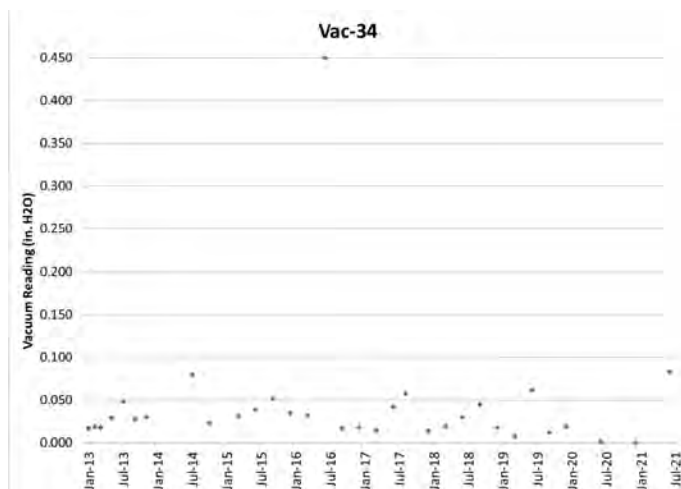
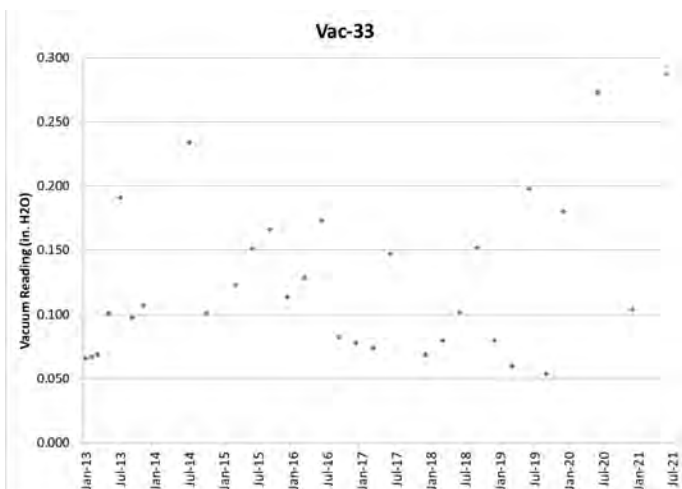
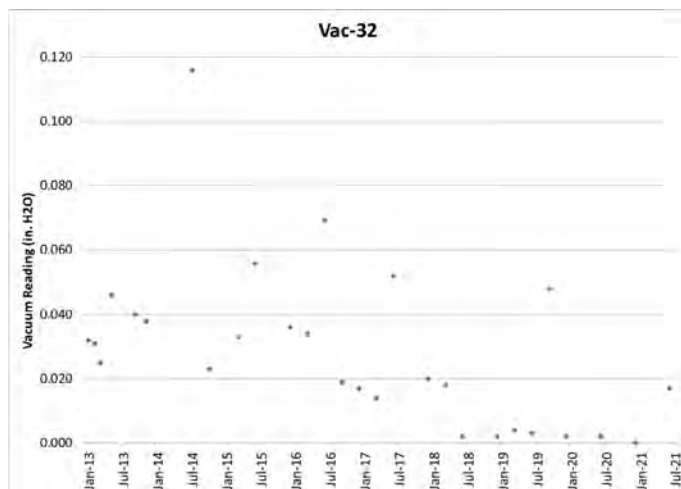
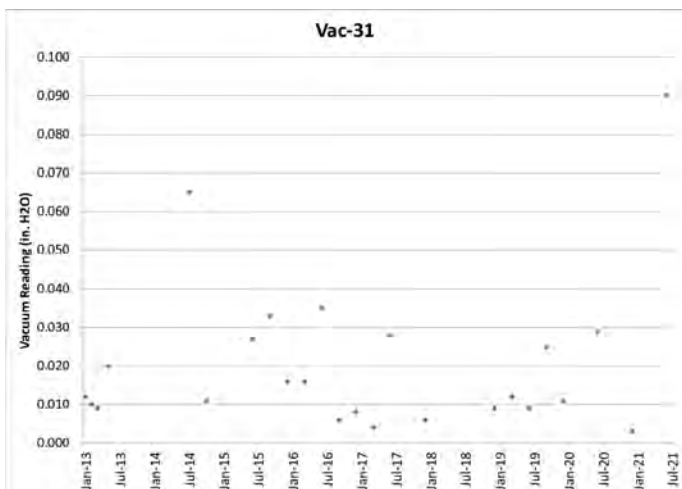


Figure 5
 Historical Vacuum Monitoring Data
 Greif Facility – Tonawanda, NY NYDEC VCP Number V00334-9

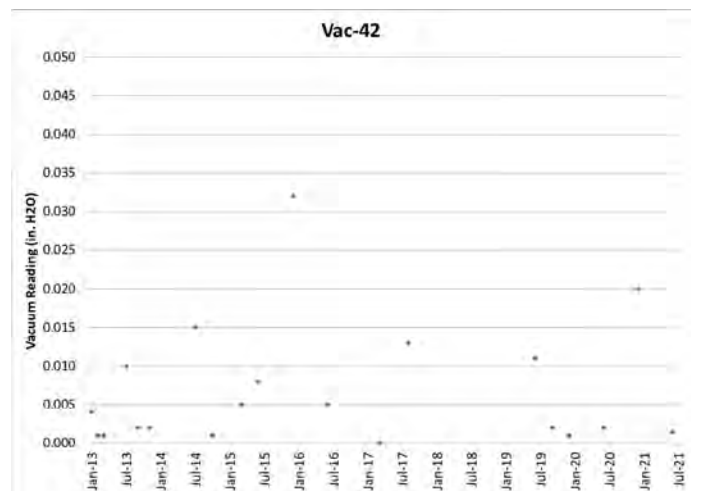
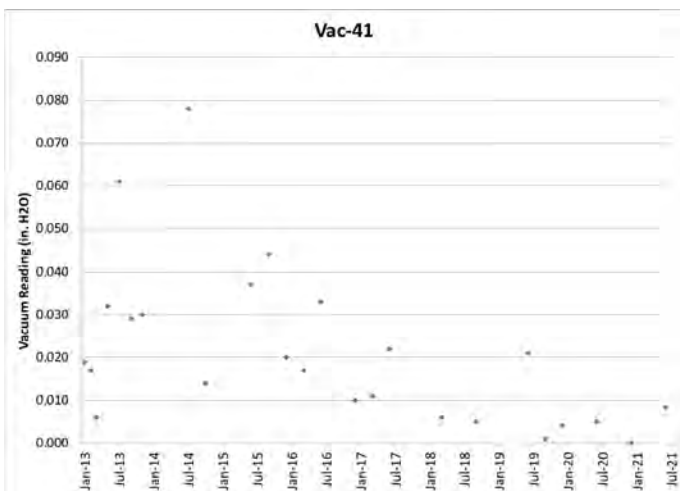
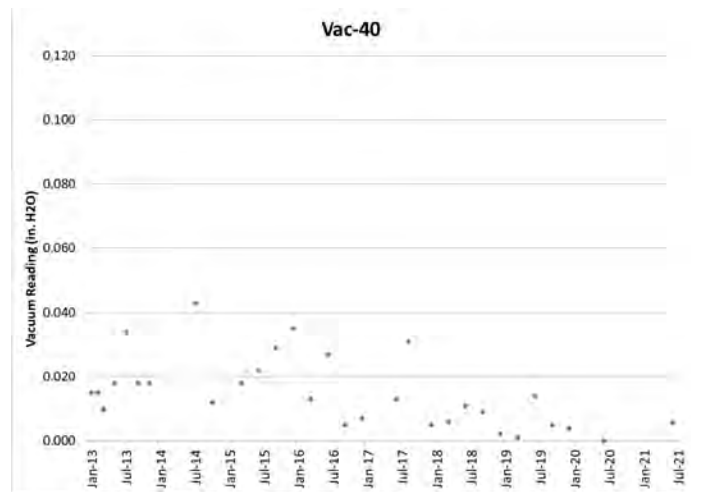
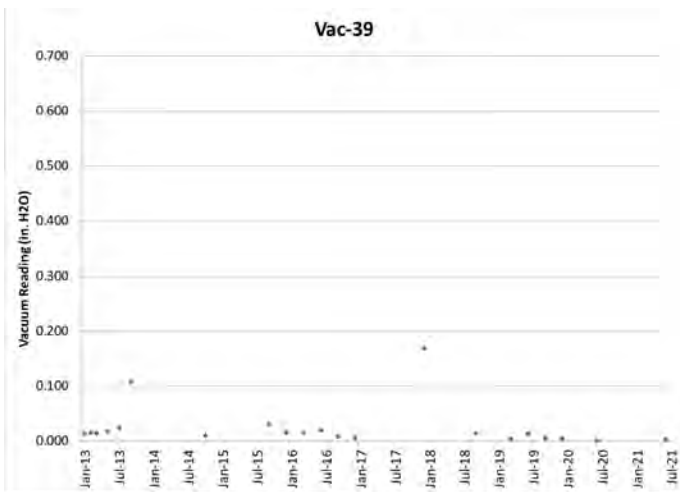
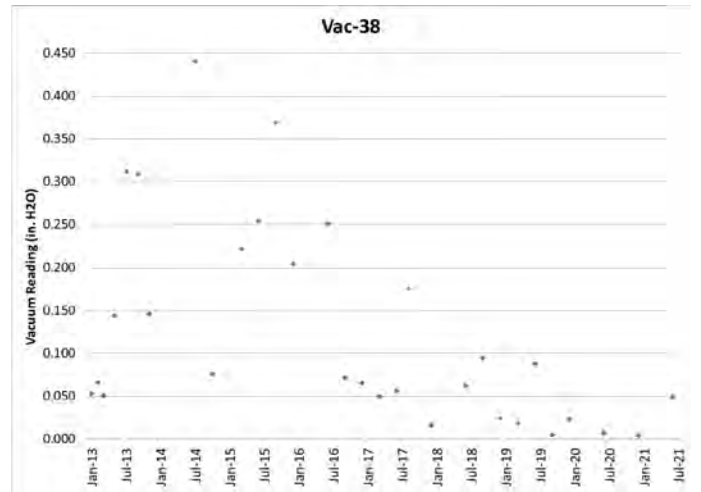
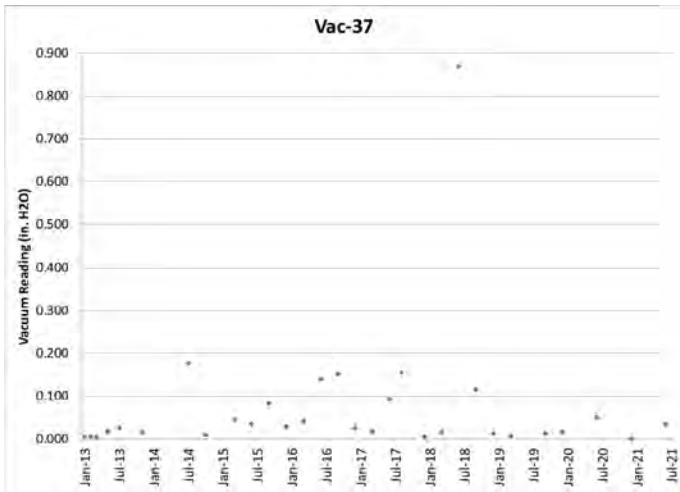


Figure 5
 Historical Vacuum Monitoring Data
 Greif Facility – Tonawanda, NY NYDEC VCP Number V00334-9

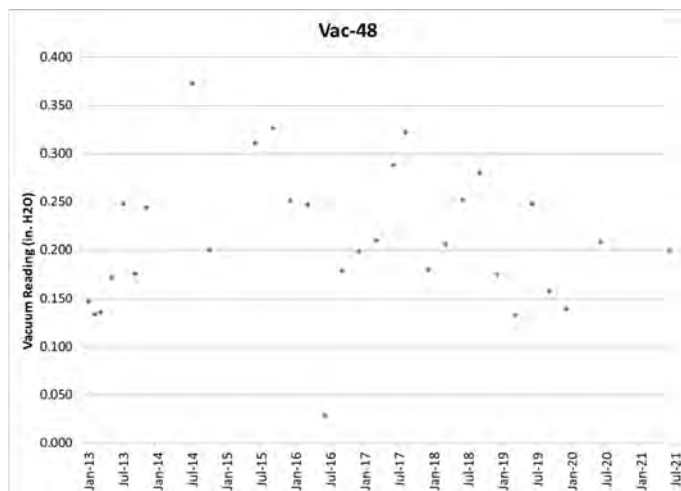
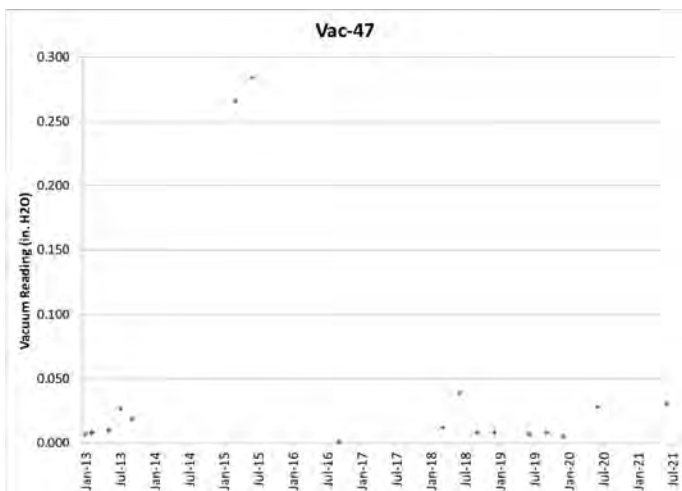
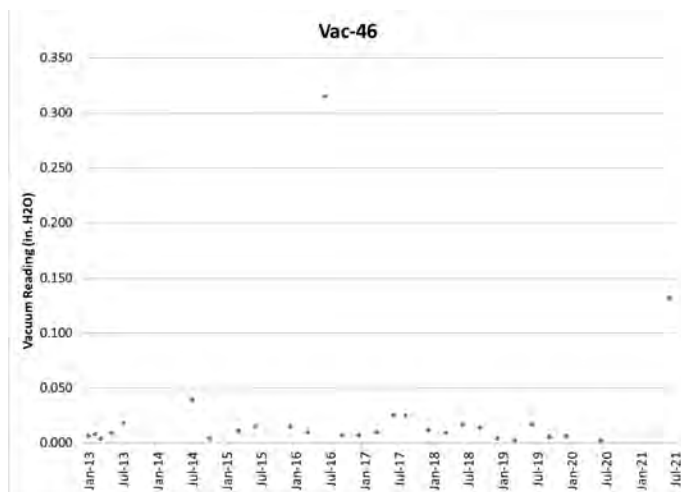
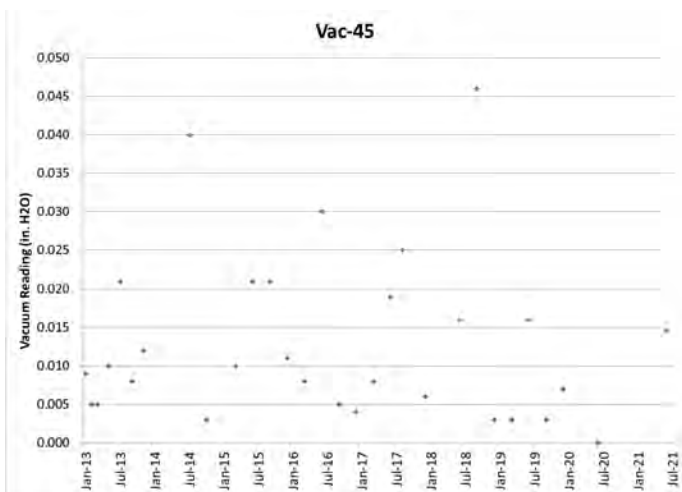
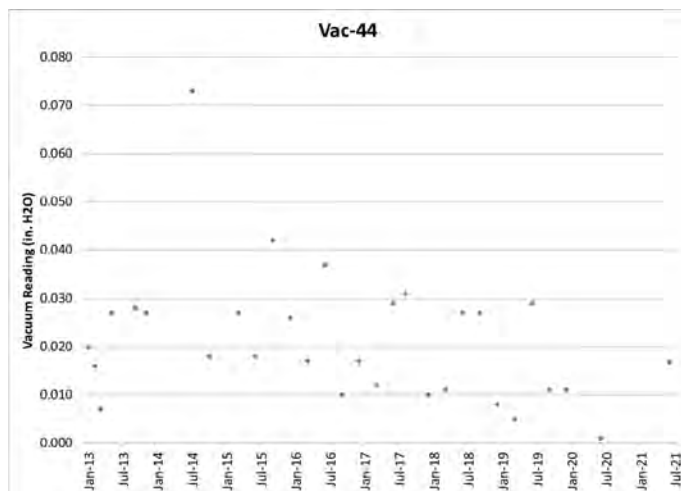
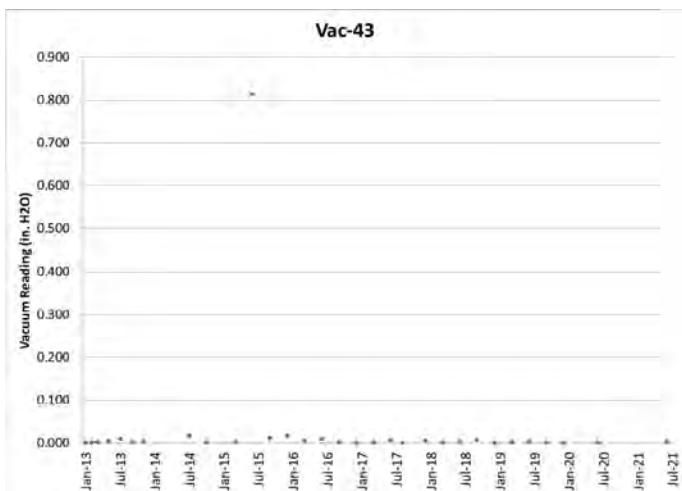


Figure 5
 Historical Vacuum Monitoring Data
 Greif Facility – Tonawanda, NY NYDEC VCP Number V00334-9

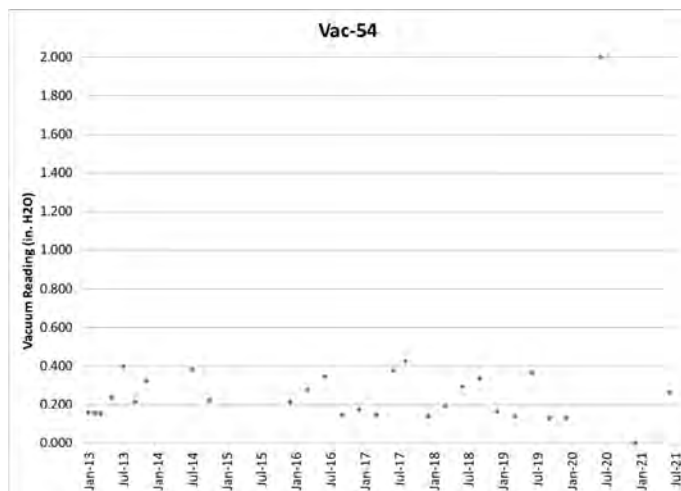
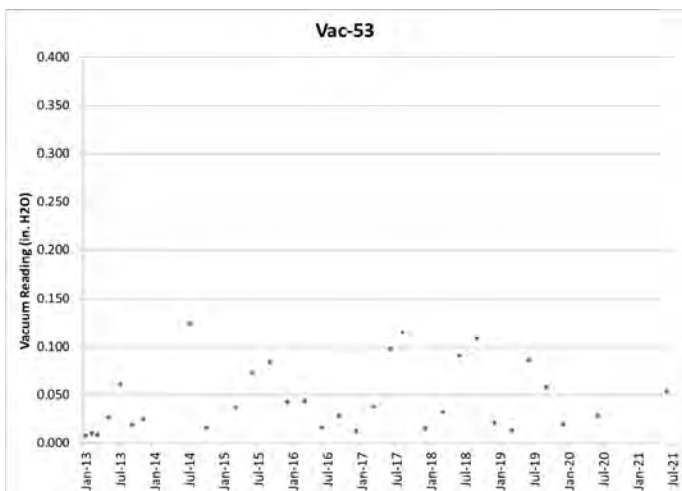
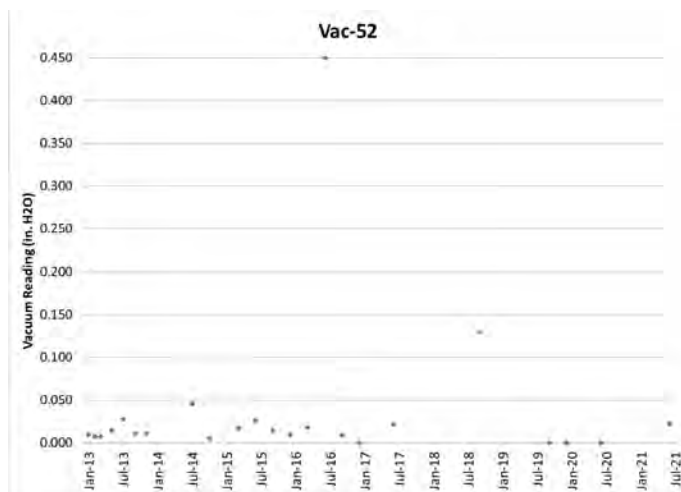
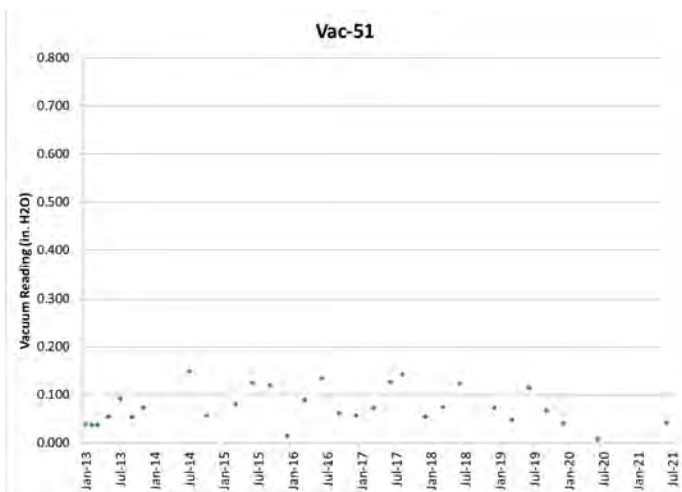
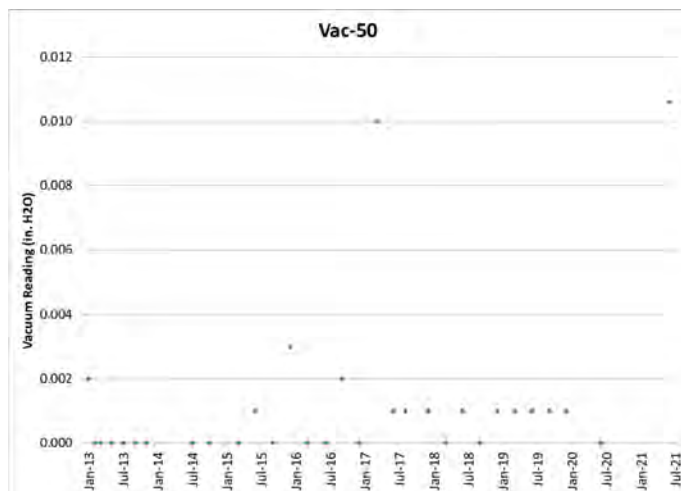
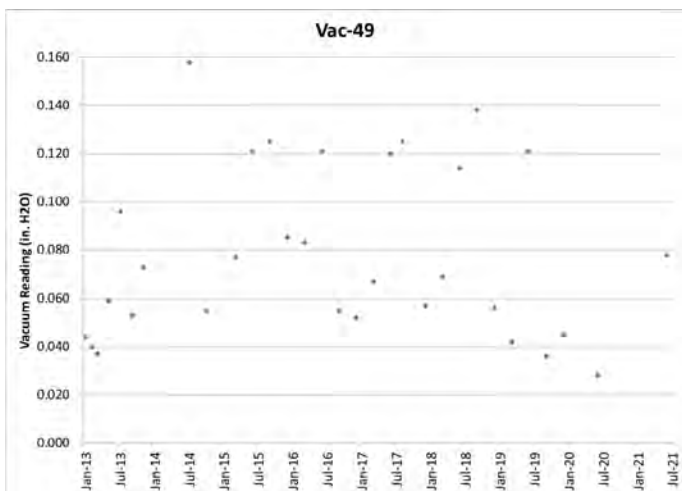


Figure 5
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 Greif Facility – Tonawanda, NY NYDEC VCP Number V00334-9

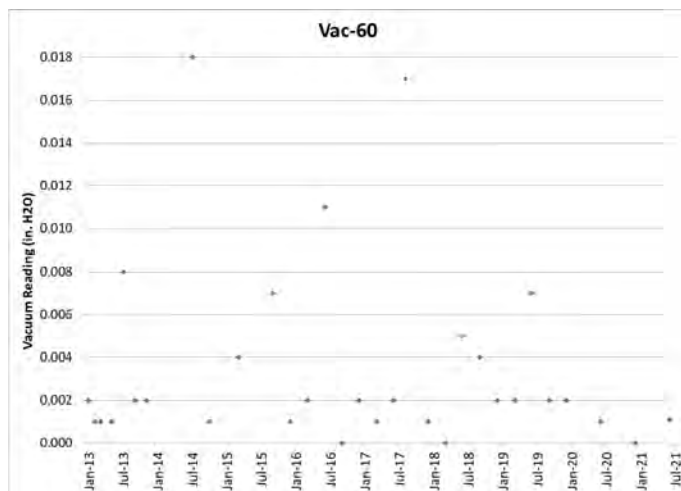
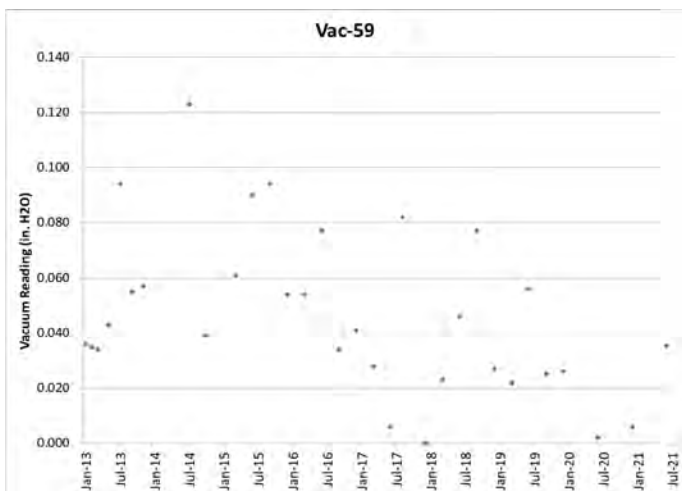
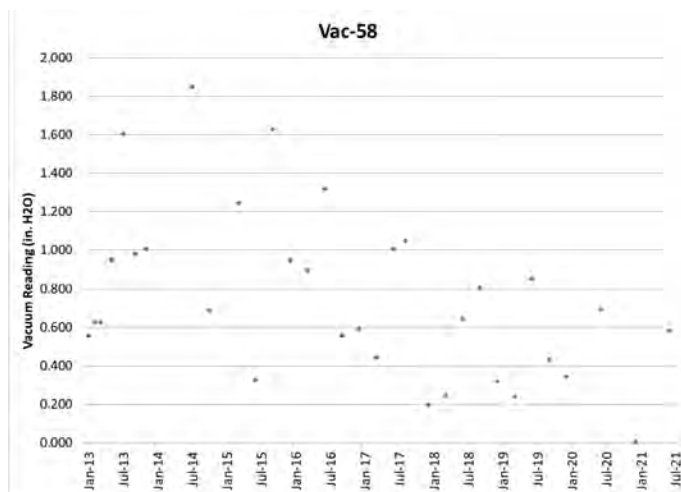
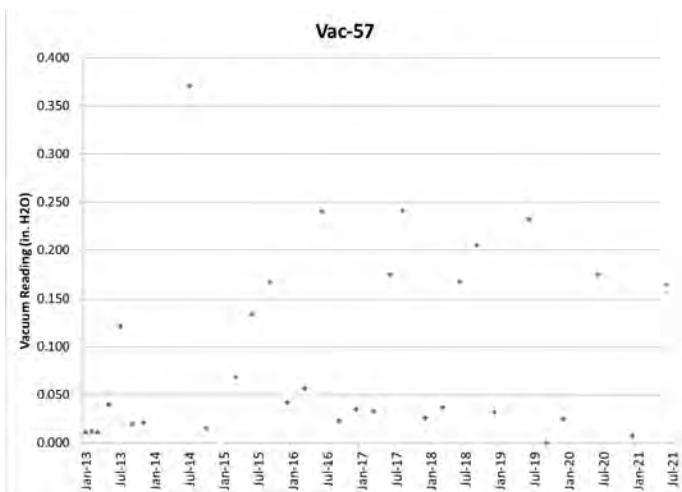
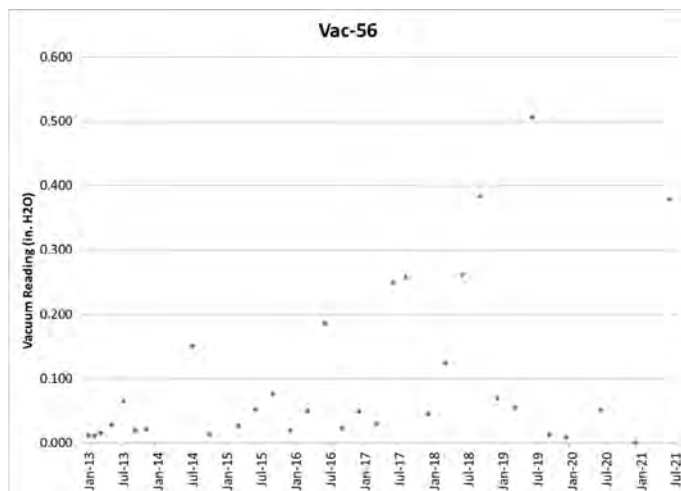
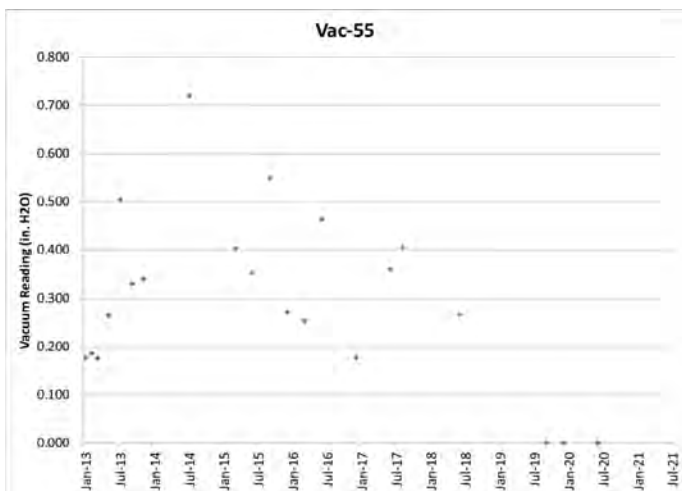
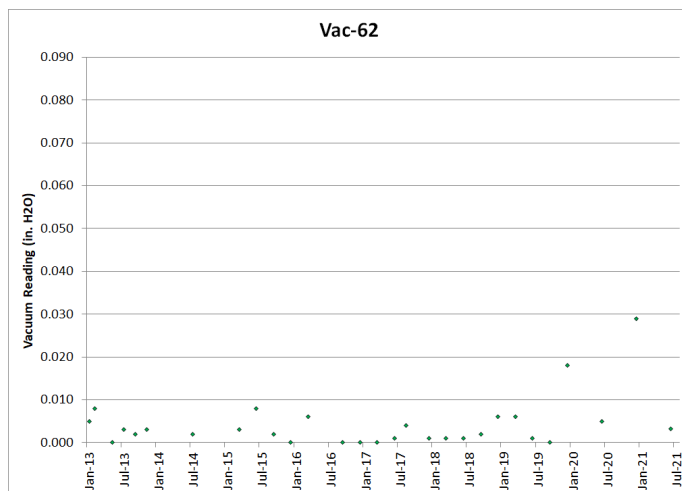
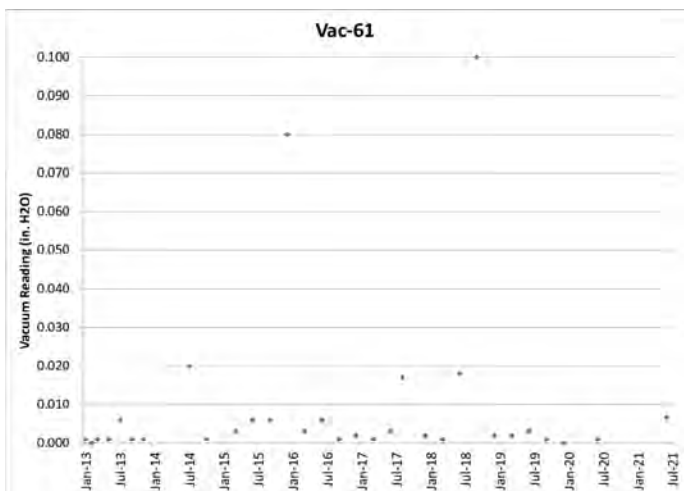
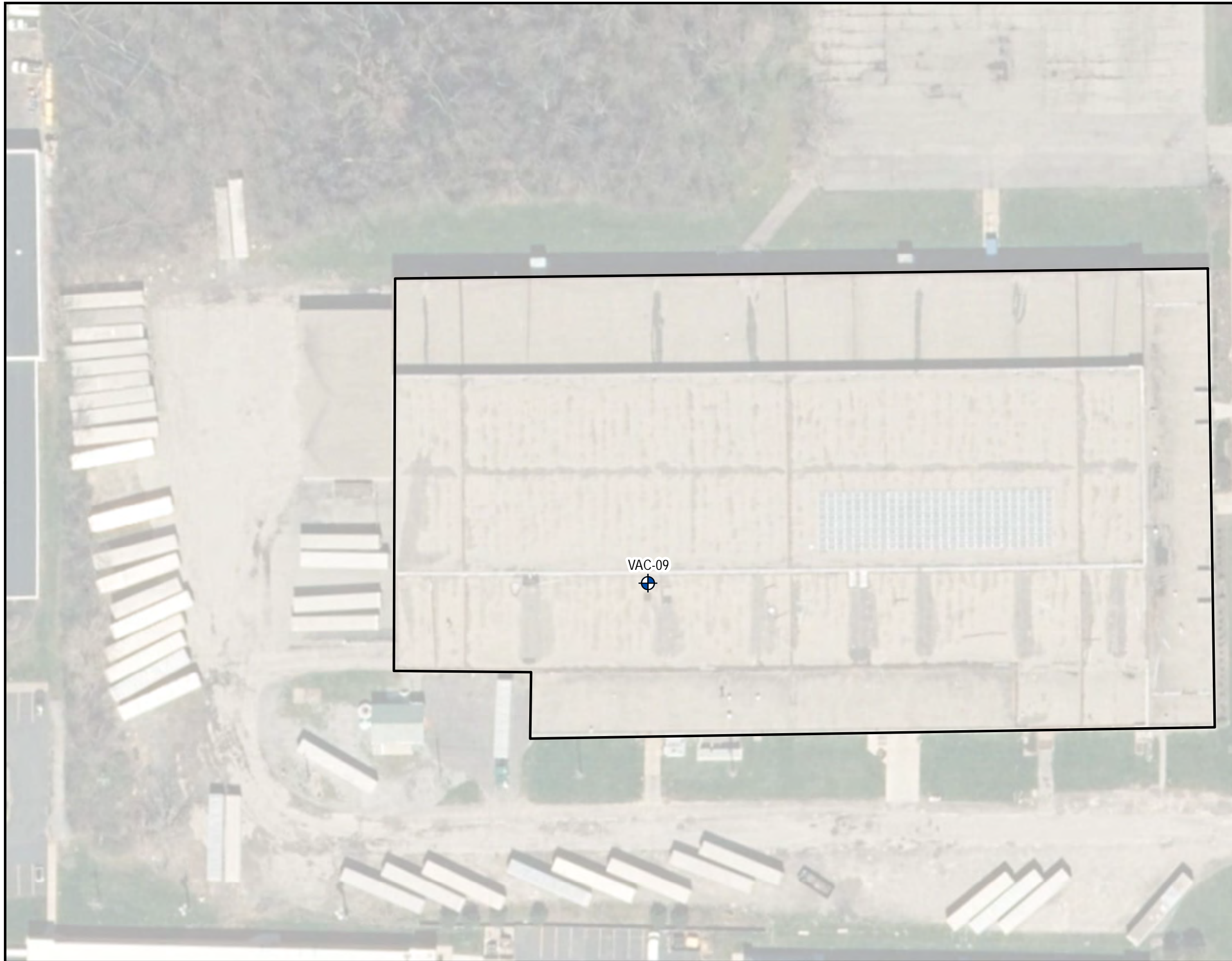




Figure 5
 Historical Vacuum Monitoring Data
 Greif Facility – Tonawanda, NY NYDEC VCP Number V00334-9





Legend

-  Sampled Vacuum Monitoring Point Location
-  Building Outline

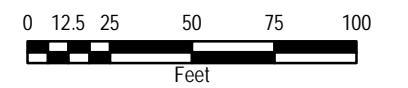
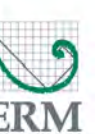
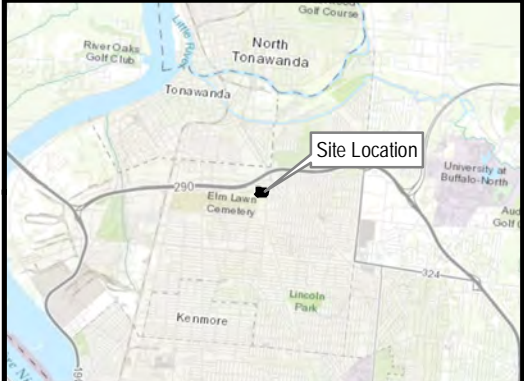
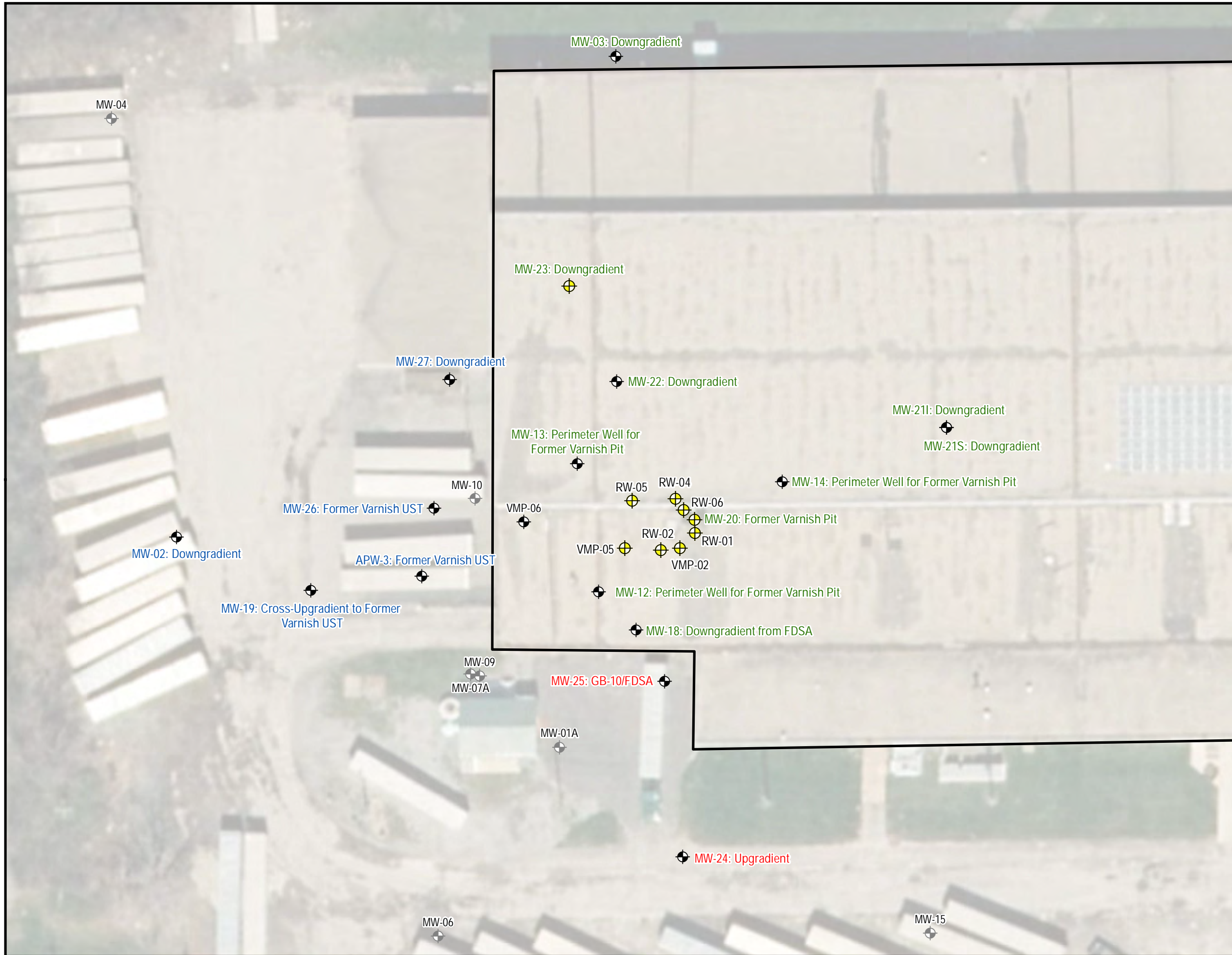


Figure 6
Vapor Intrusion Sampling Locations
March 2021
Sonoco Products Company
Tonawanda, NY





Legend

- Monitoring Well / Vapor Monitoring Point
- Monitoring Well/Vapor Monitoring Point for O&M
- Abandoned Monitoring Well
- Building Outline

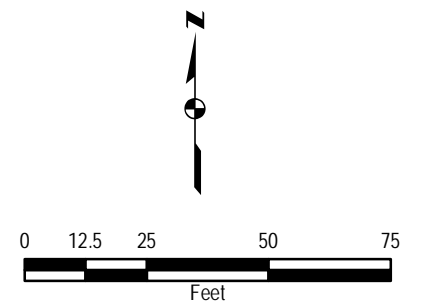


Figure 7
 Groundwater Monitoring Well Network
 Sonoco Products Company
 Tonawanda, NY
 NYSDEC VCP Site No. V00334-9





- Legend**
- Monitoring Well Location
 - 572.45' Groundwater Elevation (ft)
 - Shallow Groundwater Contour
 - Shallow Groundwater Contour (Inferred)
 - Estimated Direction of Groundwater Flow
 - Building Outline

- NOTES:**
1. Groundwater elevation is measured in feet from the elevation of top of casing.
 2. Measurements were collected on 9/29/2020.
 3. Estimated extent of groundwater contours was modeled using topo-to-raster methods in ArcGIS 10.4.

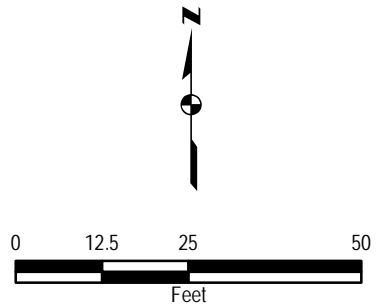

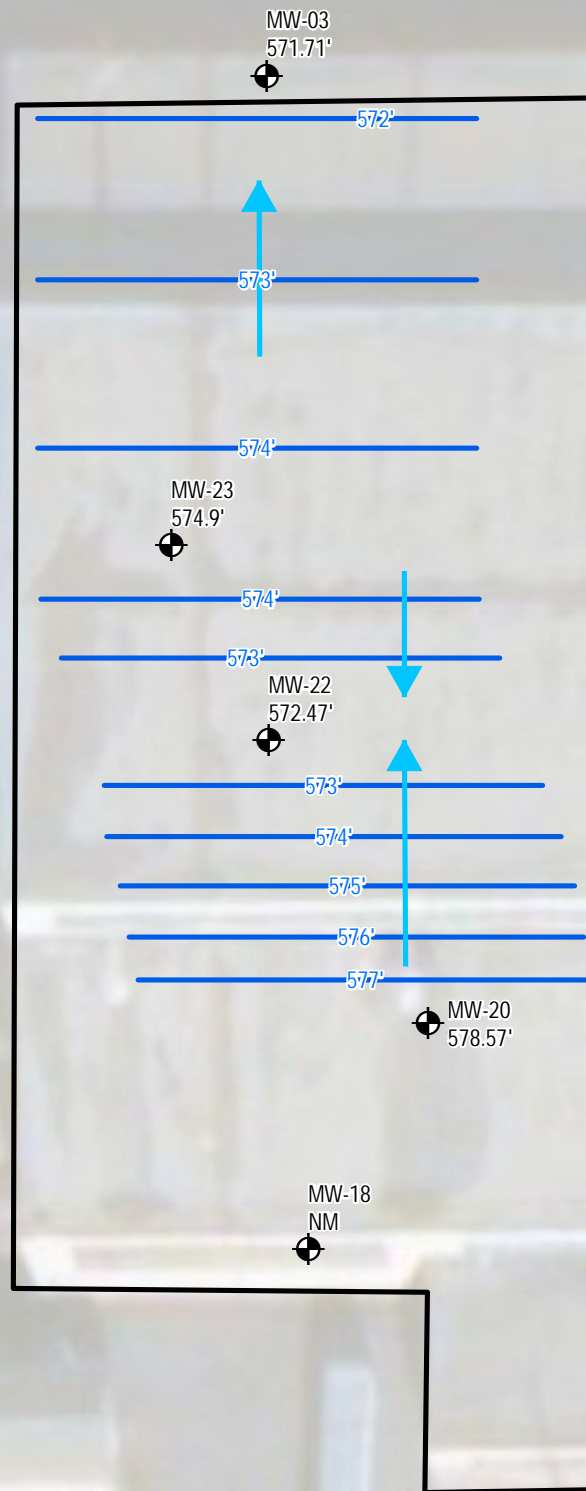


Figure 8A
 Shallow Groundwater Contour Map
 29 September 2020
 Sonoco Products Company
 Tonawanda, NY
 NYSDEC VCP Site No. V00334-9



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Legend

- Monitoring Well Location
- 572.45' Groundwater Elevation (ft)
- Intermediate Groundwater Contour
- Estimated Direction of Groundwater Flow
- Building Outline

NOTES:

1. Groundwater elevation is measured in feet (ft) from the elevation of top of casing.
2. Measurements were collected on 9/29/2020.
3. NM = not measured
4. Estimated extent of groundwater contours was modeled using topo-to-raster methods in ArcGIS 10.4.

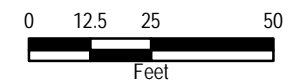


Figure 8B
 Intermediate Groundwater Contour Map
 29 September 2020
 Sonoco Products Company
 Tonawanda, NY
 NYSDEC VCP Site No. V00334-9



Figure 9
 Historical Concentrations for VOCs in Monitoring Wells
 Greif Facility - Tonawanda, NY
 NYSDEC VCP Number V00334-9

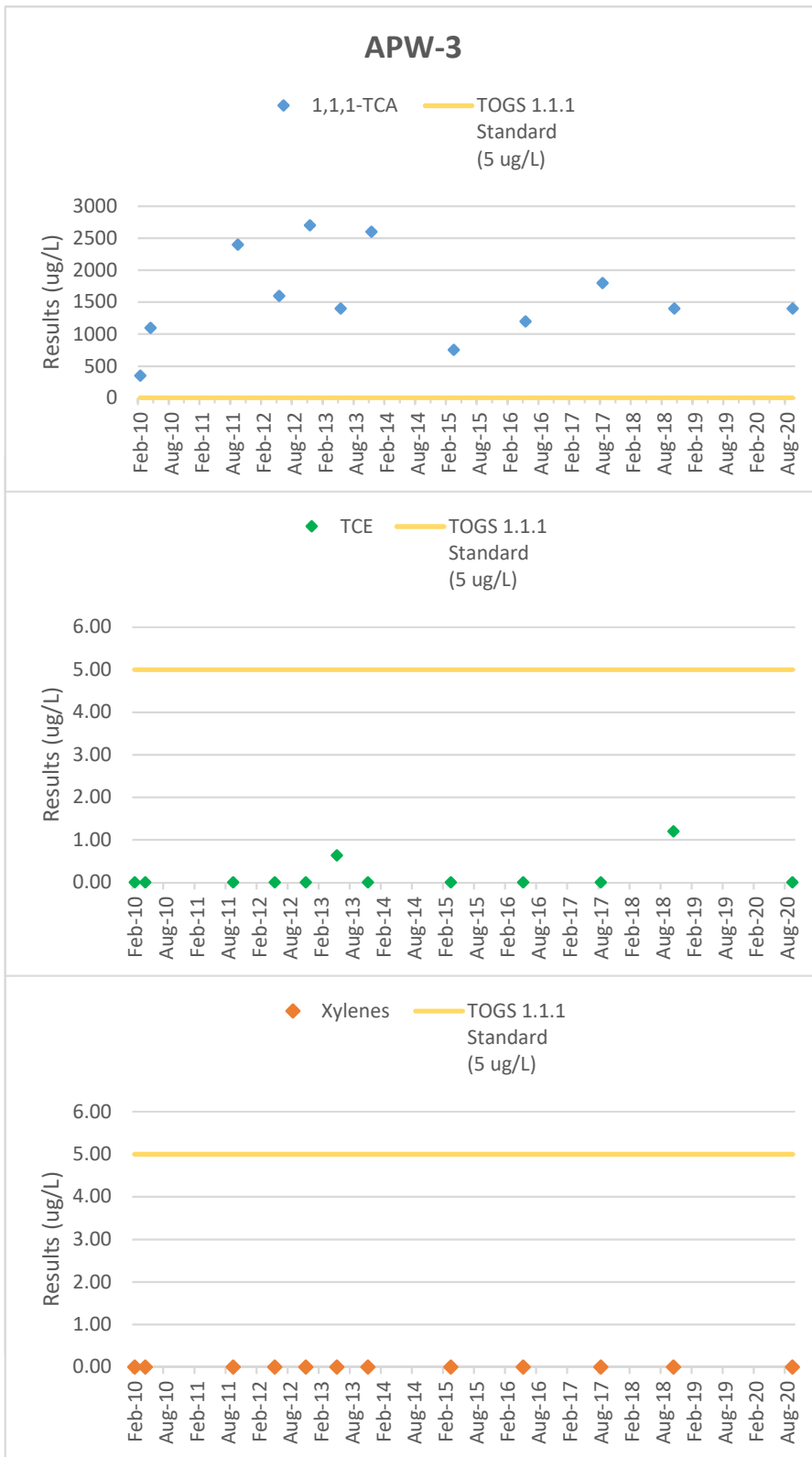


Figure 9
 Historical Concentrations for VOCs in Monitoring Wells
 Greif Facility - Tonawanda, NY
 NYSDEC VCP Number V00334-9

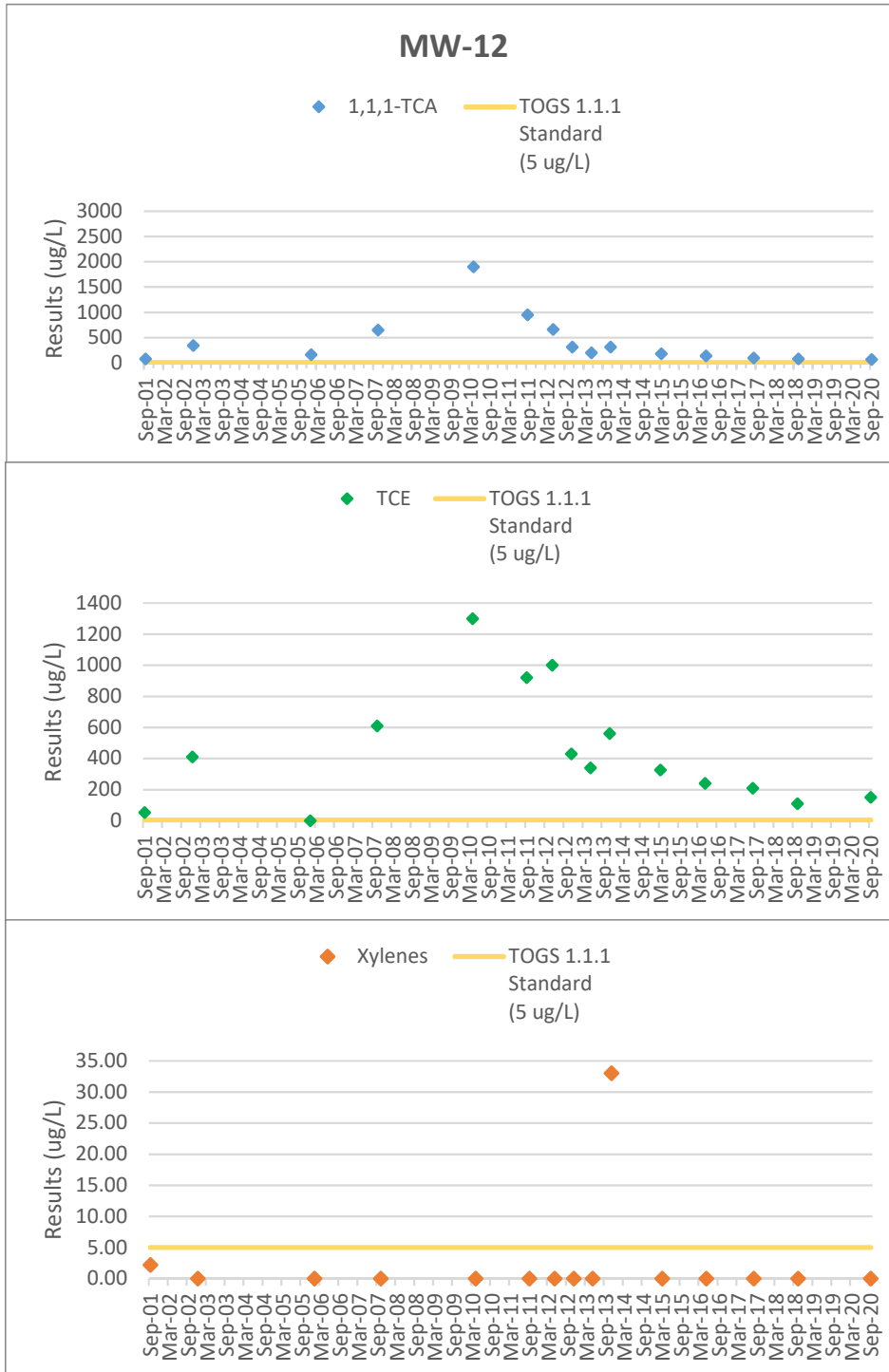


Figure 9
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 Greif Facility - Tonawanda, NY
 NYSDEC VCP Number V00334-9

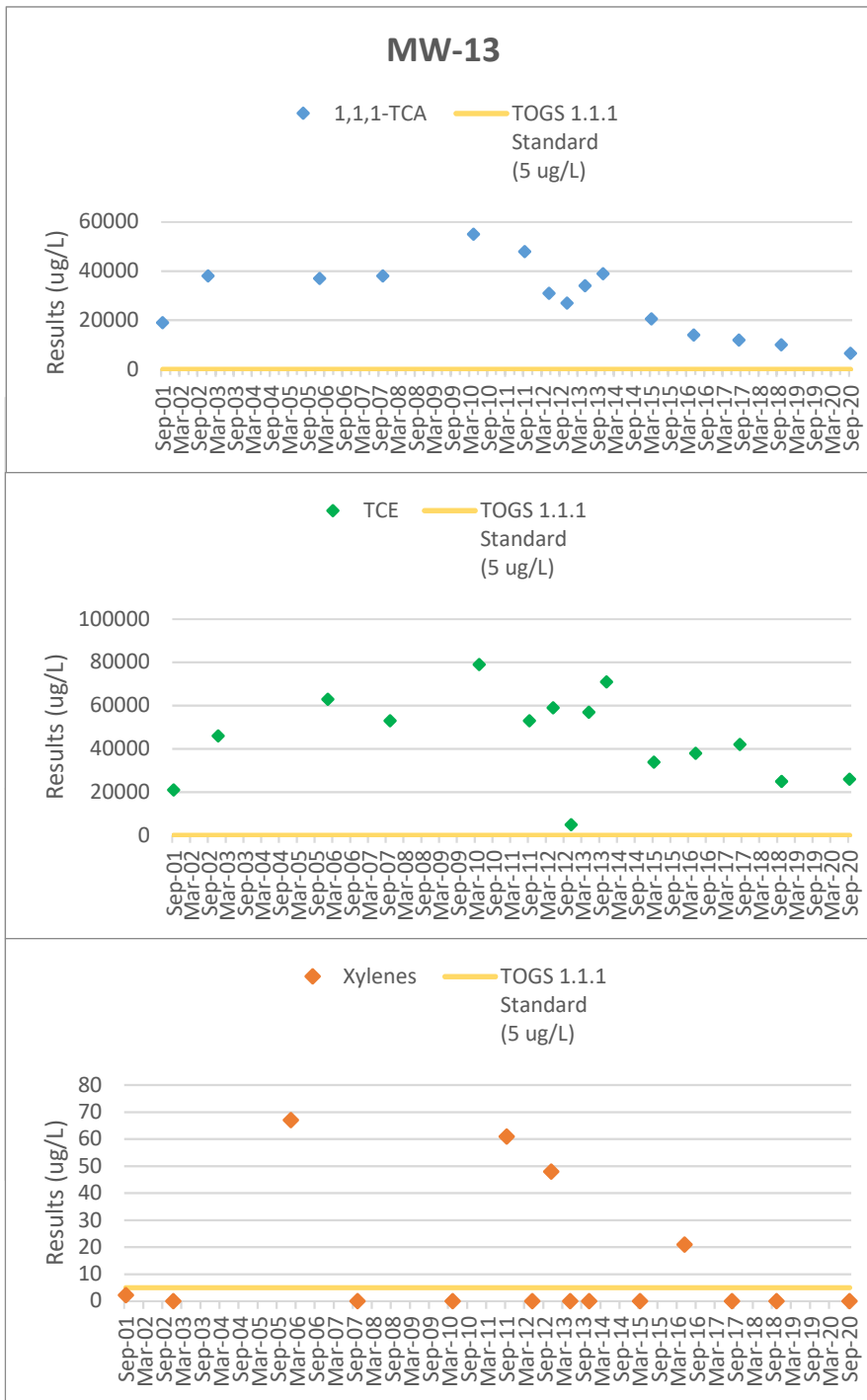


Figure 9
 Historical Concentrations for VOCs in Monitoring Wells
 Greif Facility - Tonawanda, NY
 NYSDEC VCP Number V00334-9

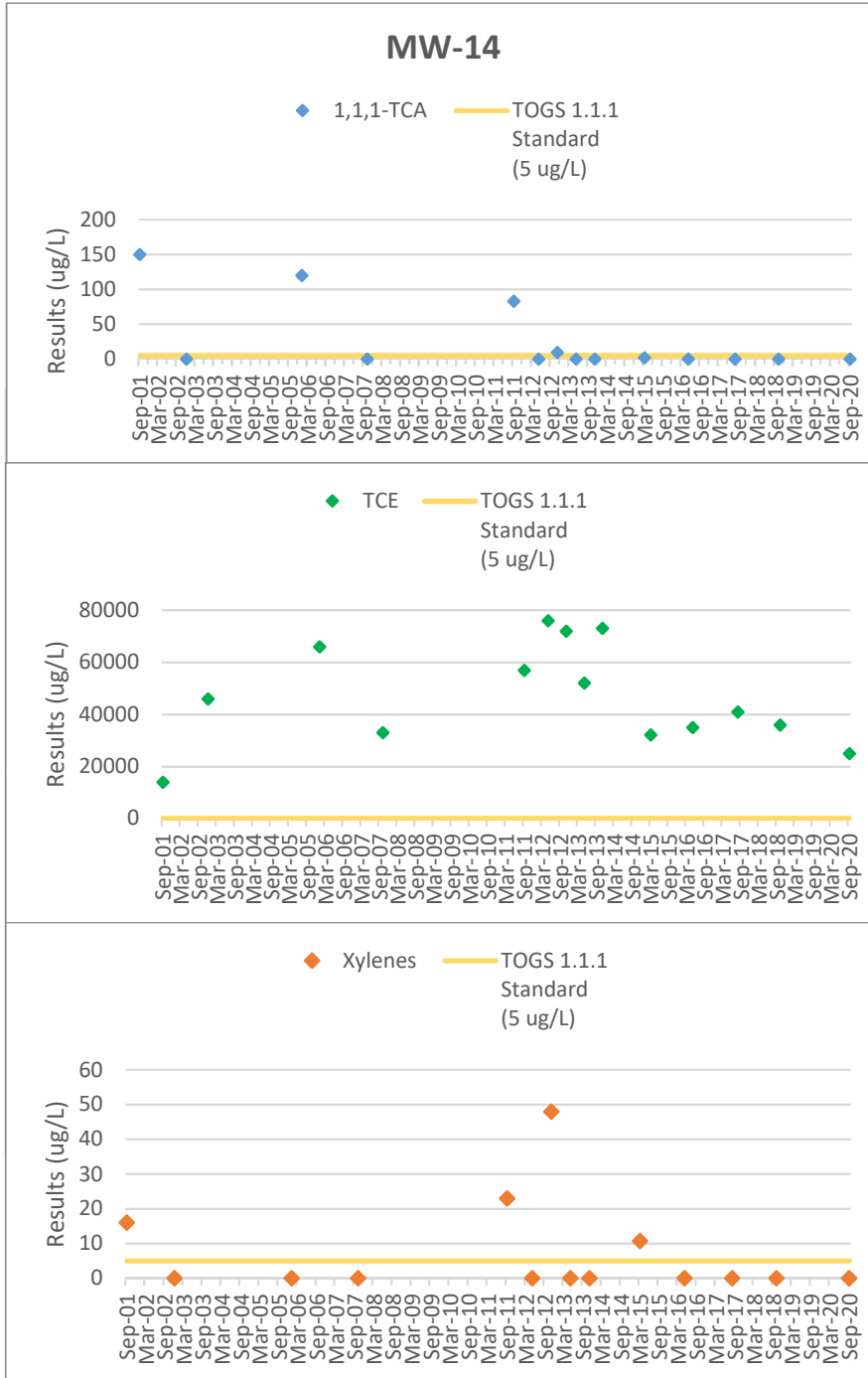


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 Greif Facility - Tonawanda, NY
 NYSDEC VCP Number V00334-9

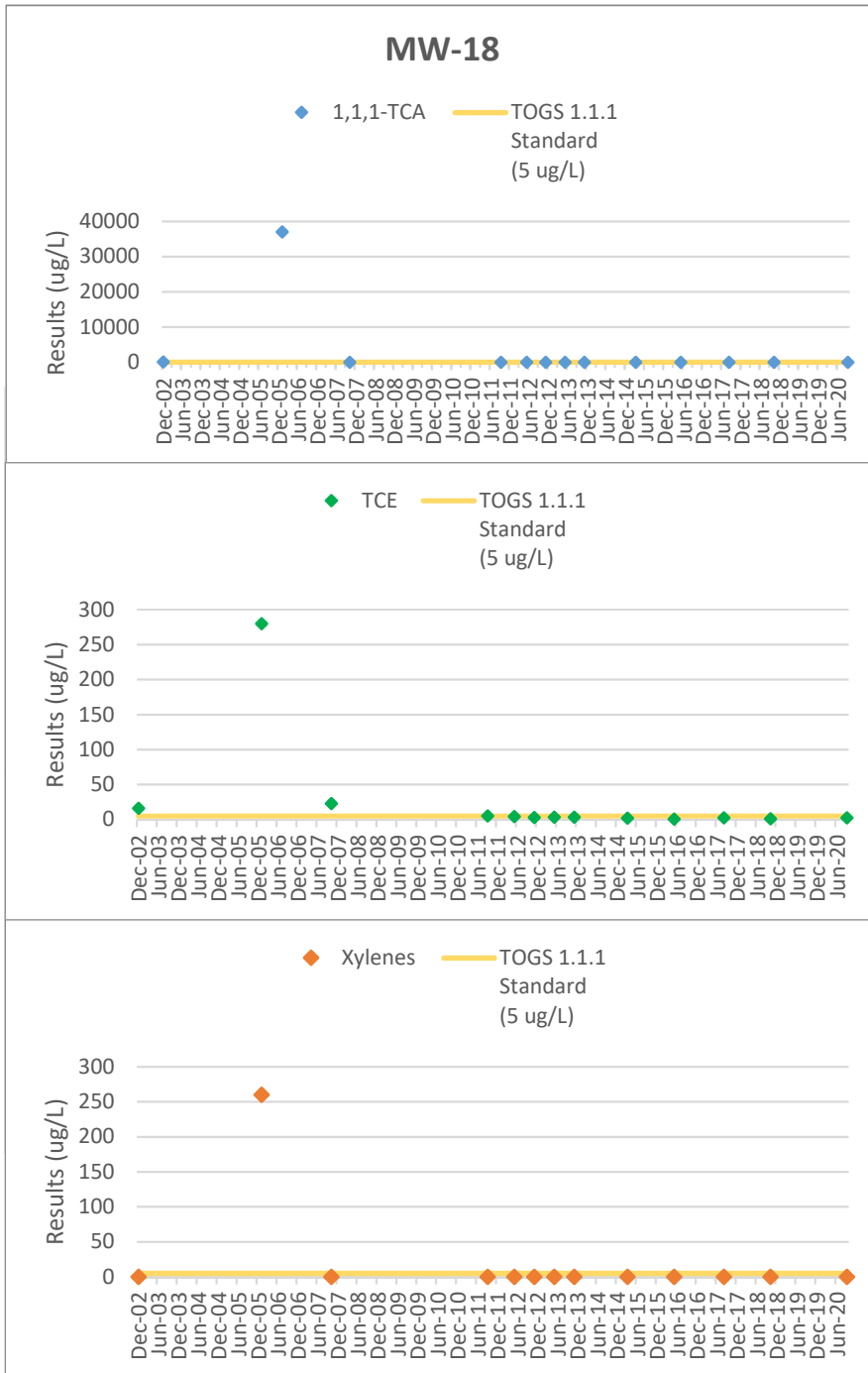


Figure 9
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 Greif Facility - Tonawanda, NY
 NYSDEC VCP Number V00334-9

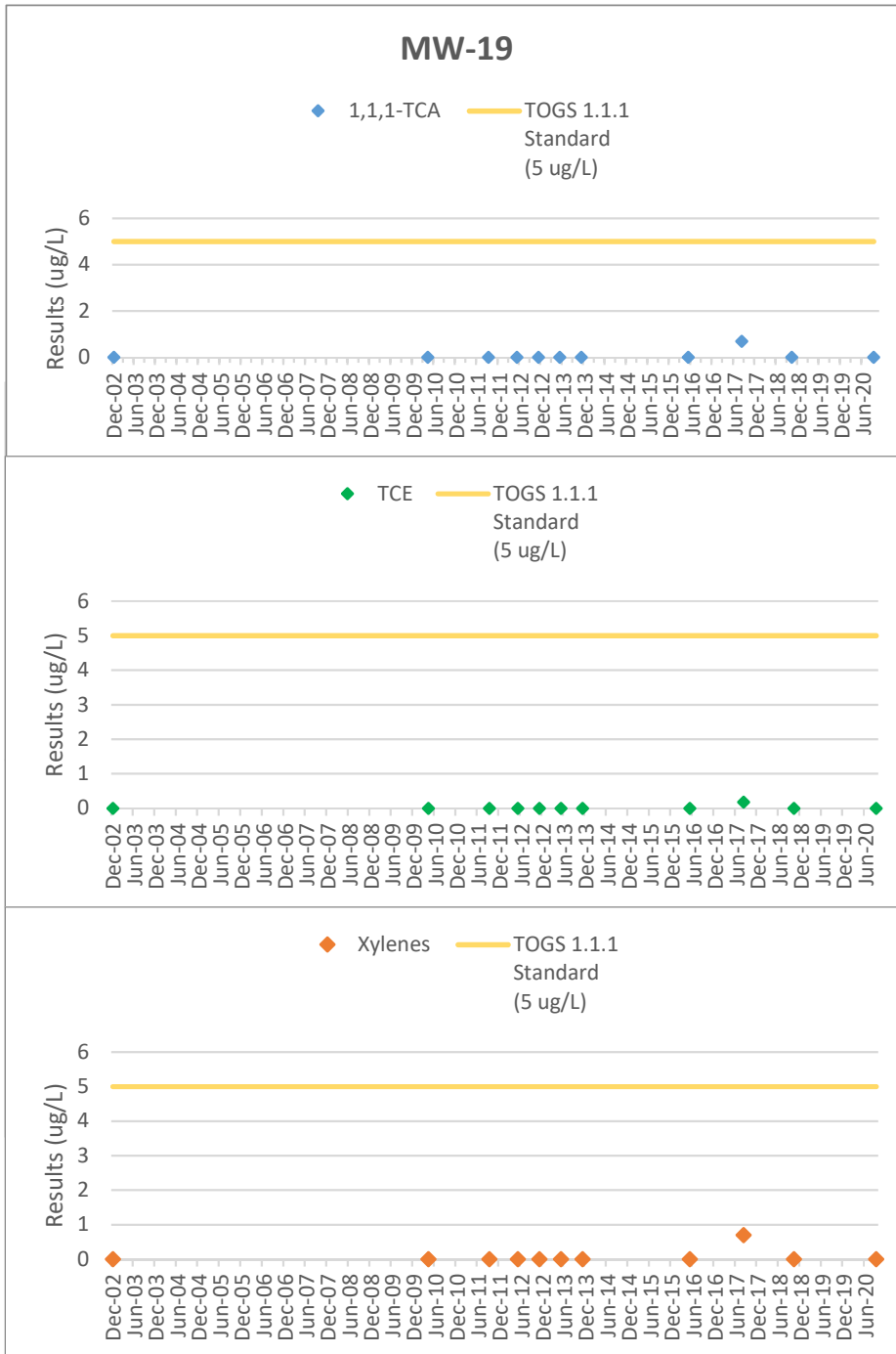


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 Greif Facility - Tonawanda, NY
 NYSDEC VCP Number V00334-9

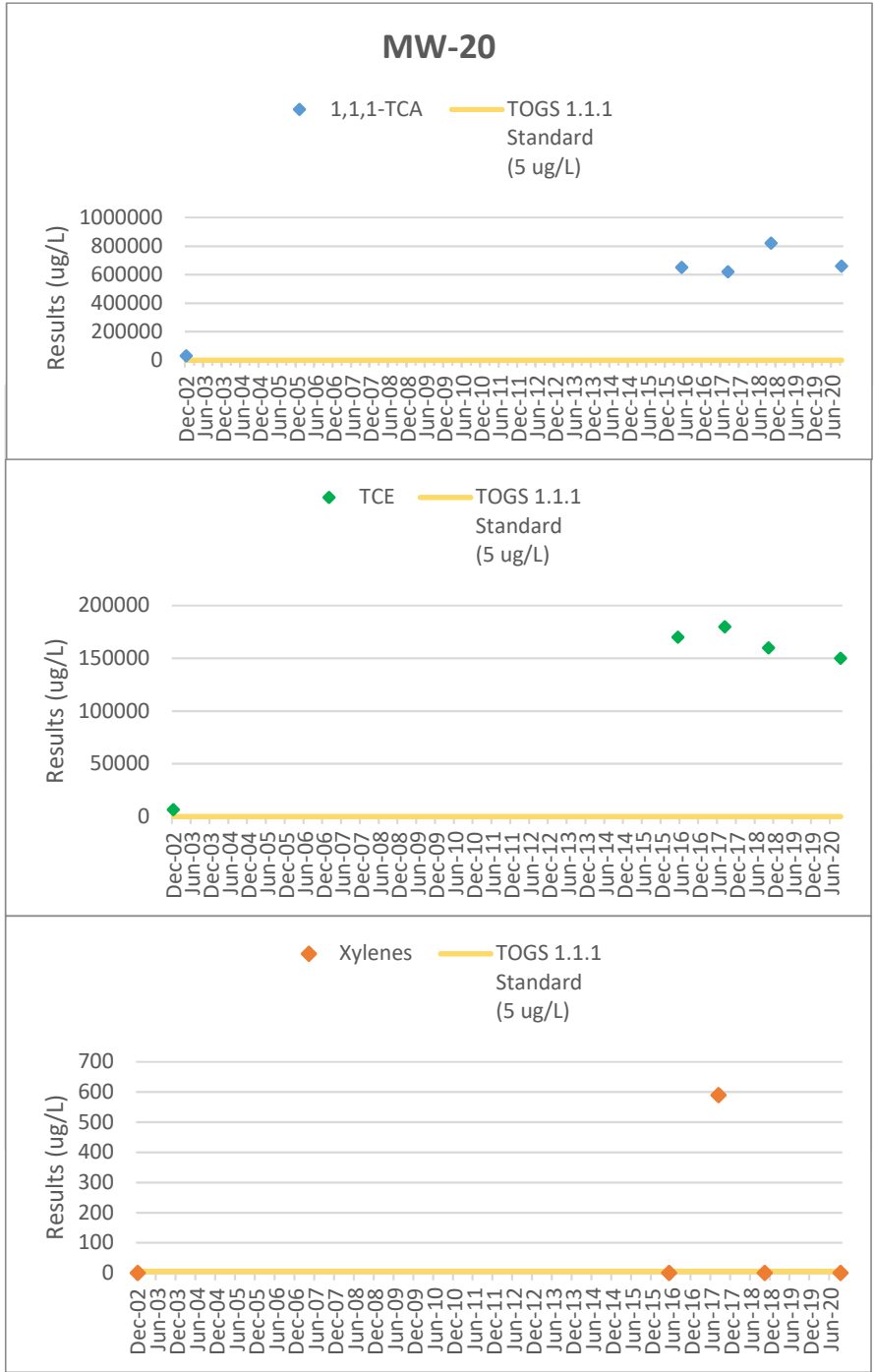


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 Greif Facility - Tonawanda, NY
 NYSDEC VCP Number V00334-9

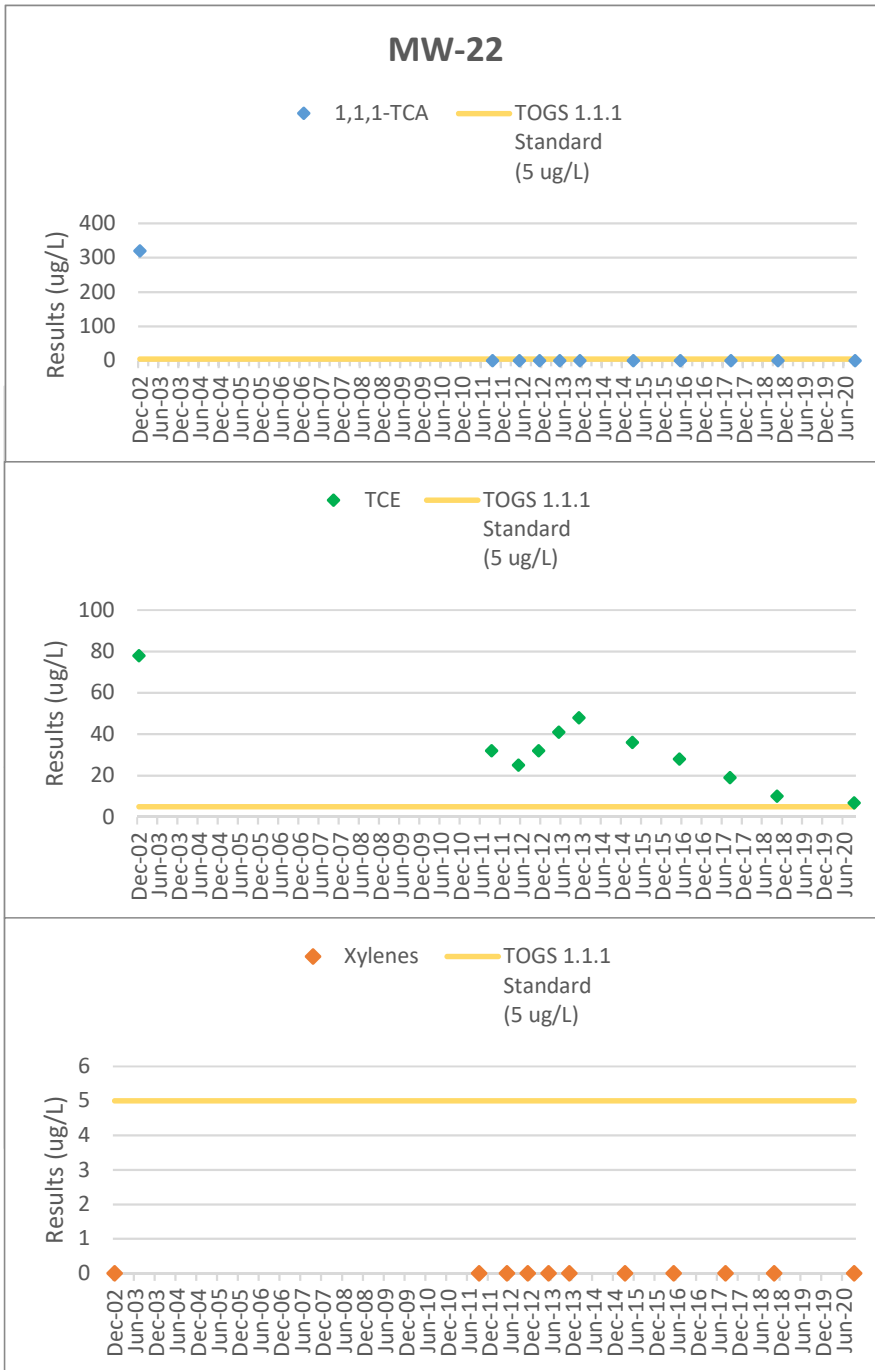


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 Greif Facility - Tonawanda, NY
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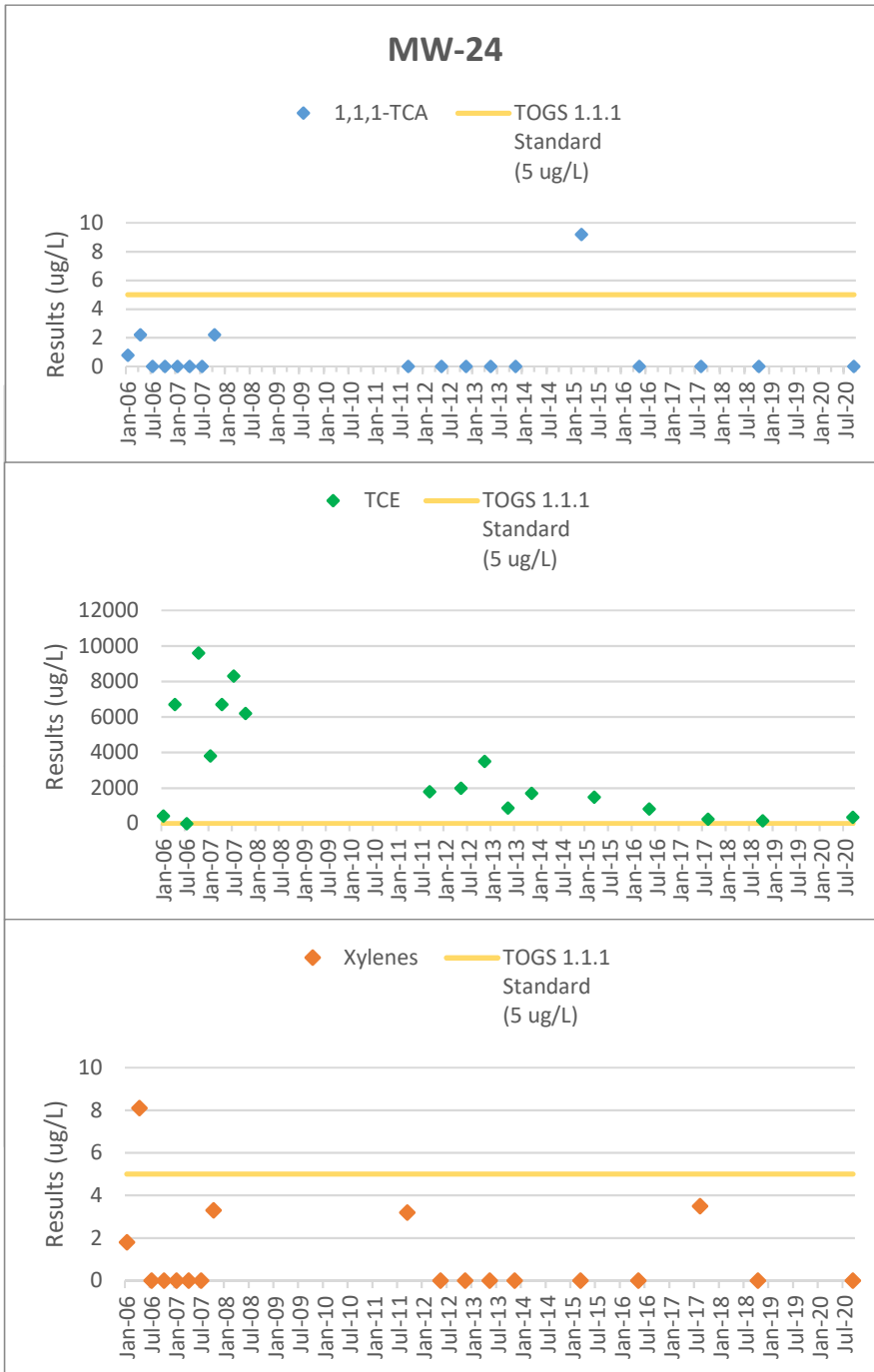


Figure 9
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 Greif Facility - Tonawanda, NY
 NYSDEC VCP Number V00334-9

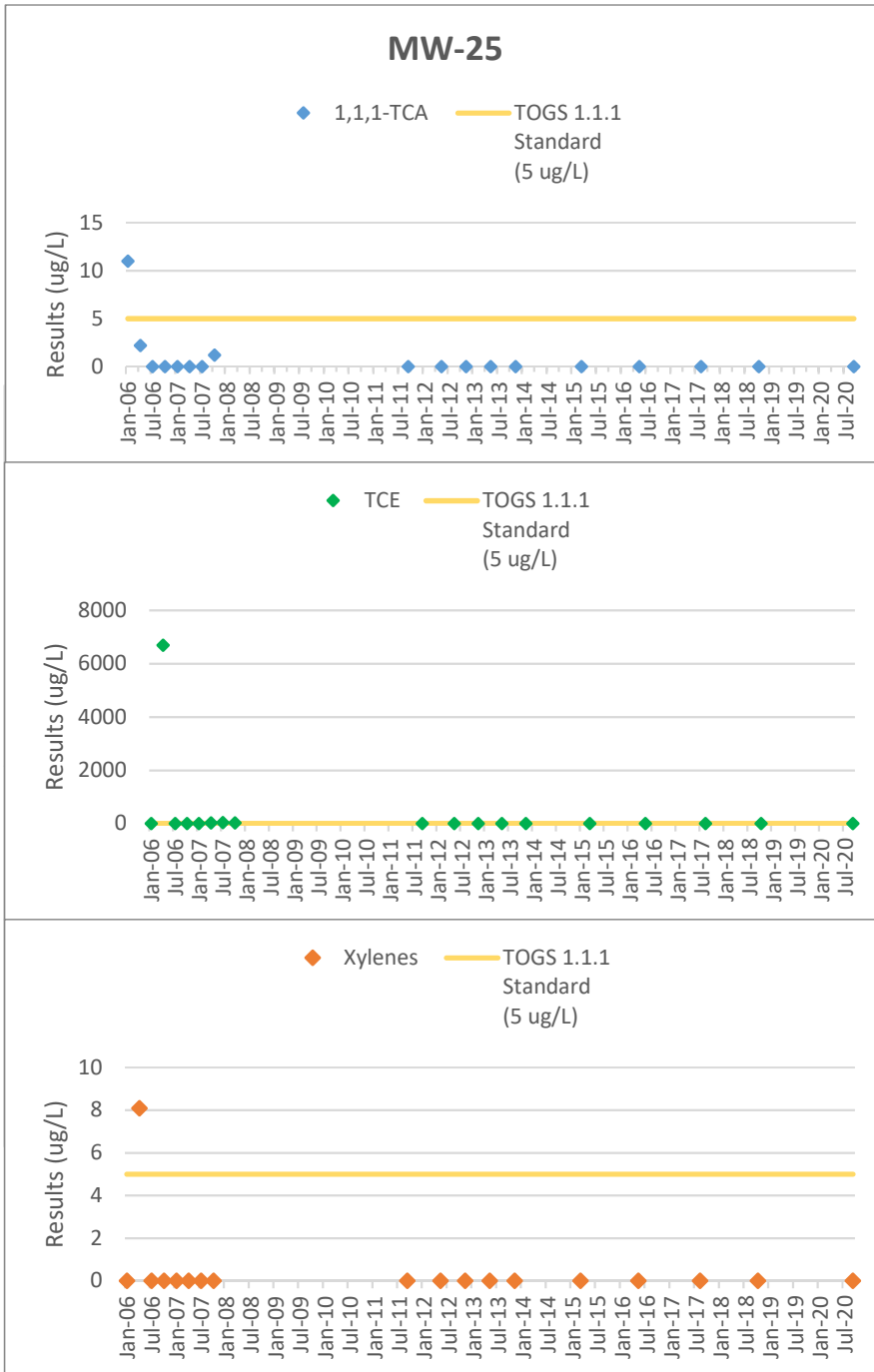


Figure 9
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 Greif Facility - Tonawanda, NY
 NYSDEC VCP Number V00334-9

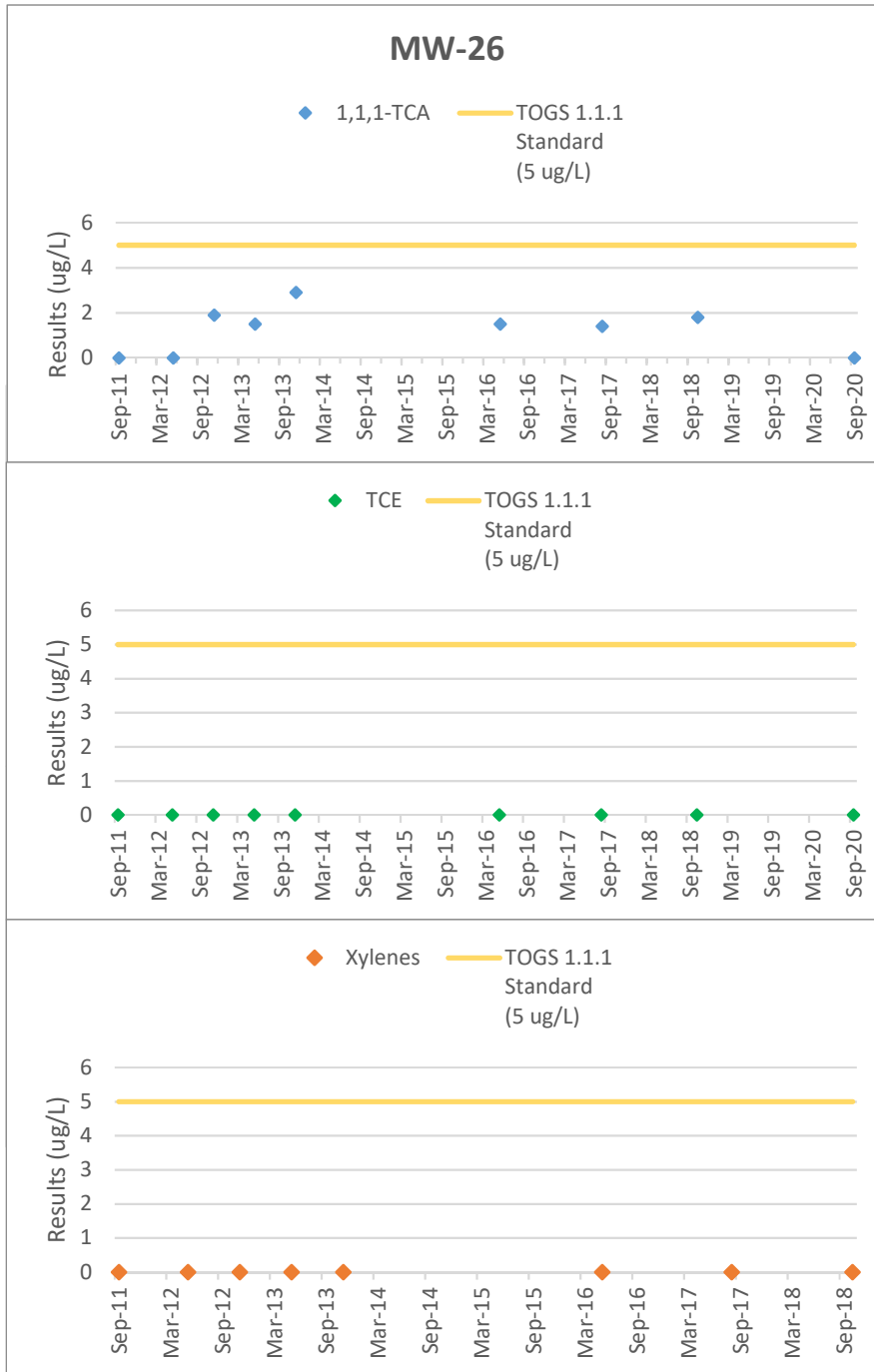
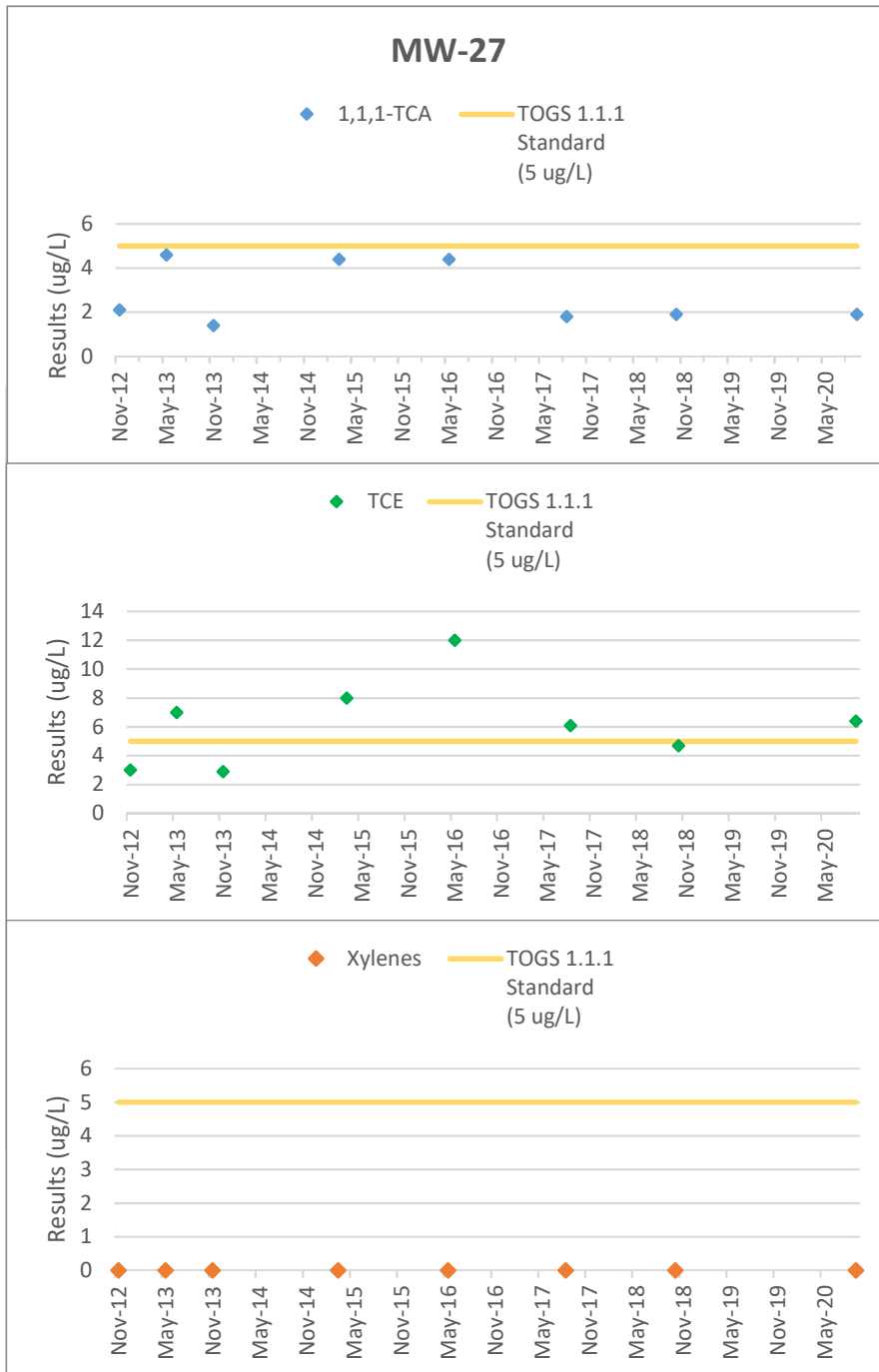


Figure 9
 Historical Concentrations for VOCs in Monitoring Wells
 Greif Facility - Tonawanda, NY
 NYSDEC VCP Number V00334-9



APPENDIX A

**INSTITUTIONAL CONTROL AND ENGINEERING CONTROL
CERTIFICATION**



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



	Site Details	Box 1	
Site No.	V00334		
Site Name Greif Bros. Corporation			
Site Address: 2122 Colvin Boulevard		Zip Code: 14150	
City/Town: Tonawanda			
County: Erie			
Site Acreage: 11.640			
Reporting Period: July 06, 2020 to July 06, 2021			
		YES	NO
1. Is the information above correct?		X	<input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.			
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		<input type="checkbox"/>	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		X	<input type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		<input type="checkbox"/>	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5. Is the site currently undergoing development?		<input type="checkbox"/>	X
		Box 2	
		YES	NO
6. Is the current site use consistent with the use(s) listed below?		X	<input type="checkbox"/>
7. Are all ICs in place and functioning as designed?		X	<input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.			
A Corrective Measures Work Plan must be submitted along with this form to address these issues.			
_____ Signature of Owner, Remedial Party or Designated Representative		_____ Date	

SITE NO. V00334

Box 3

Description of Institutional Controls

Parcel

Owner

Institutional Control

53.15-1-4.11

Grief Containers Inc

Ground Water Use Restriction
Landuse Restriction
Site Management Plan

Deed restriction filed with the Erie County Clerk on June 18, 2013 to restrict property and groundwater use as Control #2013142512

Box 4

Description of Engineering Controls

Parcel

Engineering Control

53.15-1-4.11

Vapor Mitigation

Sub-slab depressurization system

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 Engineering Control certification;

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

YES NO

X

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

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

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

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

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

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

YES NO

X

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. V00334

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I Edward Harrington at 1 N. Second St, Hartsville SC 29550,
print name print business address

am certifying as Remedial Party (Owner or Remedial Party)

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

Edward Harrington
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

8/4/2021
Date

EC CERTIFICATIONS

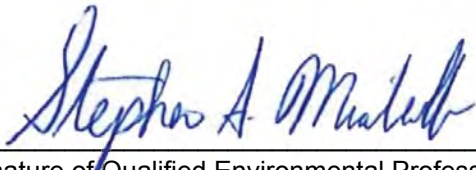
Box 7

Qualified Environmental Professional Signature

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

I Stephen A. Mirabello at ERM Consulting and Engineering, Inc.
5784 Widewaters Parkway, Syracuse, NY,
13214,
print name print business address

I am certifying as a Qualified Environmental Professional for the Remedial Party
(Owner or Remedial Party)



8/5/2021

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

Date



APPENDIX B ANNUAL SITE INSPECTION FORM

Item #	Inspection Item	Yes	No	Inspector Comments	Notes
1	Has a change of ownership occurred	X		Greif, Inc. is in the process of selling the property to Midwest Storage Developers LLC. Prospective sell date is 16-Jul-2021	NYSDEC must be informed 60 days in advance
2	Has there been any change in Site Use?	X		Greif, Inc. ceased operations in December of 2020 and Greif submitted a change of use form.	Current Site Use is Restricted-Residential. NYSDEC must be informed 60 days in advance per 6 NYCRR Part 375-1.11(d)
3	Are there any plans to construct a new building?		X		Per Section 2.3.2 of the SMP, a soil vapor intrusion monitoring plan must be prepared and submitted to NYSDEC prior to any construction.
4	Have any soil disturbances occurred in the past?	X		Soil disturbances were part of a Limited Phase II investigation outside of the VCP area as part of the sale process.	Documentation must be provided as required by the Excavation Work Plan (Appendix D)
5	Are any soil disturbances planned at this time?		X		NYSDEC must be informed 15 days in advance
6	Have there been any disturbances to the elements of the cover system (soil cover, asphalt areas, building concrete slab)?		X		
7	Has any equipment been removed or added that would have affected the building slab (i.e. holes in the floor from former anchor bolts etc.)?	X		Gref, Inc. has removed all equipment from the building resulting in some holes from anchor bolts.	
8	Has there been any modification to the floor system such as pipe runs or sumps added or filled in?		X		
9	Soil Cover - Are there any signs of erosion, settlement, or bare spots?		X		
10	Asphalt Cover - Are there any significant cracks, settlement, or erosion?		X		
11	Has there been any damage to the asphalt cover from construction or snow removal activities?		X		
12	Concrete cover (including building slab)and pavers - Are there any significant cracks, settlement, or erosion?		X		

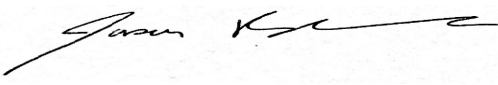
13	Is ground water underlying the Site being used?		X		Use of Site ground water is prohibited without treatment rendering it safe for its intended use.
14	Are there any signs that the SSDS blower and fans are not being maintained? Any signs of operational problems?		X		
15	Are there any vegetable gardens or farming at the Site?		X		These activities are prohibited
16	Is there any activity that may tend to interfere with the completed remedy or the continued ability to implement institutional controls?		X		
Item #	Inspection Item	Yes	No	Inspector Comments	Notes
17	SSD System - Upon visual inspection of entire system, are any components performing inadequately?		X		
18	SSD System pipes - Are there any holes, cracks, or other physical deficiencies? Are there any blockages in the piping?		X		
19	SSDS system - Are there material reductions in the extent of sub-slab vacuum response?		X		
20	SSD System - Do the blower or inline fans show signs of abnormal operation?		X		
21	SSD System - Is there an air intake or operable window located within 10 feet of any of the three exhaust points?		X		NYSDOH guidance requires SSD exhaust points to be located at least 10 feet away from an air intake.
22	SSD System - After discussion with building management, have there been any HVAC system modifications that might affect performance of the SSD System?		X		
23	SSD System - Are there any holes or cracks in the floor?	X		Cracks were observed and documents in the photolog. Based on vacuum readings and IA sampling these cracks to not affect the cover system.	Evaluate need for sealing/repairs in combination with vacuum monitoring readings.

Corrective Measures:

During Greif, Inc. ops MW-22 well cover was broken and currently has a steel plate protecting the well. The cover will need to be replaced.

Monitoring Well Inspection:

MW-22 well lid was broken and will need to be replaced. All other wells are OK at the time of this inspection.

Photographs: See Photolog.
Name of Inspector: Jason Reynolds
Signature of Inspector: 
Date of Inspection: 28-June-2021
Date of Last Inspection: June 2020
Required Date of Next Inspection: June 2022
Identify expected inspector for next inspection: Austin Baker/ Jason Reynolds
Additional comments or drawings:

APPENDIX C ANNUAL SITE INSPECTION PHOTOGRAPHIC LOG



Photo 1: Cover at Former Drum Storage UST Area



Photo 2: MW-3 perimeter well



Photo 3: Cover at Former Varnish UST Area



Photo 4: MW in asphalt cover at Former Varnish UST Area



Photo 5: Vacuum monitoring point (typ)



Monday, June 28, 2021 11:42:17

Photo 6: Building Slab Cover System (typ)



Photo 7: Building Slab Cover System with Varnish Pit Monitoring Well (typ)



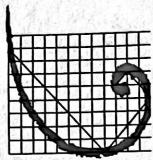
Photo 8: Varnish Pit Extraction Points and RW-6



Monday, June 28, 2021 11:42:00

Photo 9: Mid-Facility Extraction Point (typ)

APPENDIX D SITE OPERATION LOGS



ERM

Treatment System Data Sheet

Greif Facility - Tonawanda, New York

ERM Project Number

Personnel: Austin Baker

Date: 12/18/2000

	<u>Location</u>	<u>Parameter</u>	<u>Unit</u>	<u>Reading</u>
Headers	MAN-1	Vacuum (Varnish Pit Exterior)	" H ₂ O	<u>3.5</u>
	MAN-1	Air Velocity	fpm	<u>298</u>
	MAN-2	Vacuum (Varnish Pit Exterior)	" H ₂ O	<u>3.7</u>
	MAN-2	Air Velocity	fpm	<u>364</u>
	MAN-3	Vacuum (Varnish Pit Exterior)	" H ₂ O	<u>3.3</u>
	MAN-3	Air Velocity	fpm	<u>630</u>
Panel	Temp-201	Building Temperature	°f	<u>70.6</u>
	LEL-202	LEL	%	<u>-6</u>
Knock-out Pot	VG-301	Vacuum	" H ₂ O	
Blower	Temp-401	Temperature (in)	°f	<u>69</u>
	VG-402	Vacuum (pre-filter)	" H ₂ O	<u>64</u>
	VG-403	Vacuum (post-filter)	" H ₂ O	<u>18</u>
	Temp-404	Temperature (out)	°f	<u>99</u>
	SP-405	Air Velocity (pre-filter)		
	SP-507	Effluent Pressure	" H ₂ O	<u>1.1</u>
	Temp- 508 <u>507</u>	Effluent Temperature	°f	91.8 <u>91.8</u>
	SP-507	Effluent PID Reading	ppm	<u>0.3</u>
	SP-507	Effluent Relative Humidity	%	<u>31.0</u>
	SP-507	Effluent Air Velocity	fpm	<u>890</u>

NOTES:

4.8 kw
00338090 kwH

Date: 12/18/2020
 Sampler: Austin Baker

Location	Vac-01	Vac-02	Vac-03	Vac-04	Vac-05	Vac-06	Vac-07	Vac-08	Vac-09	Vac-10	Vac-11	Vac-12	Vac-13	Vac-14
Time	9:51	9:52	9:54	9:56	9:57	9:59	9:27	9:28	9:29	9:26	9:25	9:23	9:24	9:24
Vacuum	0.210	2.489	0.312	0.0018	0.394	0.516	0.173	0.011	0.032	0.001	0.00	0.008	0.012	0.005

Location	Vac-15	Vac-16	Vac-17	Vac-18	Vac-19	Vac-20	Vac-21	Vac-22	Vac-23	Vac-24	Vac-25	Vac-26	Vac-27	Vac-28
Time	9:21	9:20	8:39	8:40	8:41	9:18	8:49	9:17	9:04	9:06	9:08	9:10	7:59	8:01
Vacuum	0.002	0.00	0.009	0.008	0.00	0.00	0.004	0.005	0.004	0.001	0.002	0.008	0.002	0.001

Location	Vac-29	Vac-30	Vac-31	Vac-32	Vac-33	Vac-34	Vac-35	Vac-36	Vac-37	Vac-38	Vac-39	Vac-40	Vac-41	Vac-42
Time	9:45	8:00	8:04	8:05	8:06	8:07	8:08	8:09	8:10	8:19	9:42	9:43	9:31	9:32
Vacuum		0.60	0.003	0.000	0.104	0.00	0.001	1.474	0.00	0.004			9:00	8:02

Location	Vac-43	Vac-44	Vac-45	Vac-46	Vac-47	Vac-48	Vac-49	Vac-50	Vac-51	Vac-52	Vac-53	Vac-54	Vac-55	Vac-56
Time	9:33	9:37	9:38	9:39	9:40	9:41	9:46	9:48	9:48	9:49	9:50	8:10	9:31	9:50
Vacuum												0.00	0.00	0.00

Location	Vac-57	Vac-58	Vac-59	Vac-60	Vac-61	Vac-62	SP-01	SP-02	SP-03	SP-04	SP-05	SP-06	SP-07	SP-08
Time	8:24	8:21	8:20	8:42	8:43	8:43	9:26	9:22	9:15	8:56	8:30	8:09	9:30	9:36
Vacuum	0.007	0.006	0.006	0.00	0.0029	0.0029	0.15	3.2	0.8	1.8	0.5	2.40	2.90	2.70

Sealed

Location	SP-09	SP-10	SP-11
Time	8:11	8:29	8:51
Vacuum	7.60	2.80	3.70

Notes:

- All vacuum and/or pressure readings are reported in inches of water column ("H2O).

Non-Aqueous Phase Liquid Thicknesses in Wells
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9

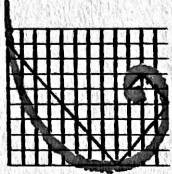
WELL	RW-1 (ft.)	RW-2 (ft.)	RW-4 (ft.)	RW-5 (ft.)	RW-6 (ft.)	VMP-2 (ft.)	VMP-5 (ft.)	MW-20 (ft.)	MW-23 (ft.)
Date	12/18/2020	12/18/2020	12/18/2020	12/18/2020	12/18/2020	12/18/2020	12/18/2020	12/18/2020	12/18/2020
LNAPL	-							-	
Water Level	9.53				8.78				
DNAPL	-				-				

Notes:

All values are reported in feet as measured with an electronic interface probe.
 HS - heavy sheen but no measureable thickness.

Sampler: Austin Baker

Meter acting up, product recovery still completed 12/18/2020



ERM

Treatment System Data Sheet

Greif Facility - Tonawanda, New York

ERM Project Number

Personnel: AB + ON

Date: 6/28/21

	<u>Location</u>	<u>Parameter</u>	<u>Unit</u>	<u>Reading</u>
Headers	MAN-1	Vacuum (Varnish Pit Exterior)	" H ₂ O	<u>4</u>
	MAN-1	Air Velocity	fpm	<u>825</u>
	MAN-2	Vacuum (Varnish Pit Exterior)	" H ₂ O	<u>4</u>
	MAN-2	Air Velocity	fpm	<u>406</u>
	MAN-3	Vacuum (Varnish Pit Exterior)	" H ₂ O	<u>4</u>
	MAN-3	Air Velocity	fpm	<u>890</u>
Panel	Temp-201	Building Temperature	°f	<u>80°</u>
	LEL-202	LEL	%	<u>0</u>
Knock-out Pot	VG-301	Vacuum	" H ₂ O	<u>19</u>
Blower	Temp-401	Temperature (in)	°f	<u>80</u>
	VG-402	Vacuum (pre-filter)	" H ₂ O	<u>30</u>
	VG-403	Vacuum (post-filter)	" H ₂ O	<u>62</u>
	Temp-404	Temperature (out)	°f	<u>40</u>
	SP-405	Air Velocity (pre-filter)		<u>5190</u>
	SP-507	Effluent Pressure	" H ₂ O	0.15 1.2 <u>1.200</u>
	Temp-506	Effluent Temperature	°f	<u>119</u>
	SP-507	Effluent PID Reading	ppm	<u>0.6</u>
	SP-507	Effluent Relative Humidity	%	<u>27.4</u>
	SP-507	Effluent Air Velocity	fpm	<u>2620</u>

NOTES:

0359992

Date: 6/28/21
 Sampler: A. Baker / J. Reynolds

Location	Vac-01	Vac-02	Vac-03	Vac-04	Vac-05	Vac-06	Vac-07	Vac-08	Vac-09	Vac-10	Vac-11	Vac-12	Vac-13	Vac-14
Time	0930	0931	0949	0935	0937	0935	0927	0926	0920	0928	0925	0923	0922	0921
Vacuum	0.212	2.531	0.3552	0.426	0.467	0.547	0.1437	0.2261	0.4558	0.1316	0.1520	0.4004	0.4033	0.6005

Location	Vac-15	Vac-16	Vac-17	Vac-18	Vac-19	Vac-20	Vac-21	Vac-22	Vac-23	Vac-24	Vac-25	Vac-26	Vac-27	Vac-28
Time	0900	0859	0902	0845	0877	0848	0857	0849	0853	0852	0854	0856	0836	0837
Vacuum	0.0035	0.0044	0.0026	0.0388	0.0674	0.0026	0.0005	0.0025	0.0013	0.0107	0.0923	0.0058	0.0093	0.0192

Location	Vac-29	Vac-30	Vac-31	Vac-32	Vac-33	Vac-34	Vac-35	Vac-36	Vac-37	Vac-38	Vac-39	Vac-40	Vac-41	Vac-42
Time	0957	0835	0838	0839	0840	0841	0842	0843	0910	0952	0915	0917	0918	0919
Vacuum	0.0143	0.0063	0.0902	0.0169	0.2877	0.0832	0.0006	1.385	0.0339	0.0491	0.0022	0.0052	0.0083	0.0014

Location	Vac-43	Vac-44	Vac-45	Vac-46	Vac-47	Vac-48	Vac-49	Vac-50	Vac-51	Vac-52	Vac-53	Vac-54	Vac-55	Vac-56
Time	1013	0914	0910	0912	0913	0911	0944	0946	0942	1014	0937	0909	—	0823
Vacuum	0.0036	0.0168	0.0146	0.132	0.0308	0.1498	0.0076	0.0106	0.0416	0.0227	0.034	0.2631	—	0.3790

Location	Vac-57	Vac-58	Vac-59	Vac-60	Vac-61	Vac-62	SP-01	SP-02	SP-03	SP-04	SP-05	SP-06	SP-07	SP-08
Time	0844	0908	0906	0905	0907	0922	1007	1003	0851	0850	1002	0955	1000	0959
Vacuum	0.1646	0.583	0.0354	0.0011	0.0067	0.0033	2.9	2.9	0.725	1.864	0.15	2.5	2.3	3.2

Location	SP-09	SP-10	SP-11
Time	0958	1001	1002
Vacuum	3.2	3.3	4.0

Notes:
 - All vacuum and/or pressure readings are reported in inches of water column ("H2O).

Non-Aqueous Phase Liquid Thicknesses in Wells
Greif Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9

WELL	RW-1 (ft.)	RW-2 (ft.)	RW-4 (ft.)	RW-5 (ft.)	RW-6 (ft.)	VMP-2 (ft.)	VMP-5 (ft.)	MW-20 (ft.)	MW-23 (ft.)
Date	6/30/21	6/30/21	6/30/21	6/30/21	6/30/21	6/30/21	6/30/21	6/30/21	6/30/21
LNAPL	—	—	—	—	—	—	—	—	13.45
Water Level	12.28	8.83	11.98	10.24	9.91	Only	None	13.28	13.53
DNAPL	—	—	—	—	10.33 10.30	—	—	—	—

Notes:

All values are reported in feet as measured with an electronic interface probe.
 HS - heavy sheen but no measureable thickness.

Sampler: *A. B. Baker / J. Reynolds*

Overview

LEL
Trend

Temp
Trend

Alarms

SONOCO SSD
SYSTEM

09:25 AM 09/30/20

LSH-101



PSH-101



BL-1



-101



Unlock

ALM
RESET




- Overview
- Admin
- Home
- Sensors**
- Gateways
- Actions
- Maps
- Charts

- Account
- Reports
- Users
- Networks
- API
- Settings
- Log Out

Details

Sensor: Sonoco System 1 Applied Vac.

Gateway: 975340
Network: ERM - Sonoco Network



6.096 " W.C.

Last Message: 31 Minutes ago | Next Check-in: 08/05/2021 4:07 PM

Readings

6.096 " W.C.	08/05/2021 3:07 PM		
6.068 " W.C.	08/05/2021 2:07 PM		
6.112 " W.C.	08/05/2021 1:07 PM		
6.104 " W.C.	08/05/2021 12:07 PM		
6.108 " W.C.	08/05/2021 11:07 AM		



- Overview
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ERM - Sonoco Network

Sonoco System 1 Applied Vac.

Sonoco System 2 Applied Vac.

Sonoco System 3 Applied Vac.

Navigation bar with icons: back, details, menu, home, settings, tools, and search.

Details

Sensor: Sonoco System 2 Applied Vac.
Gateway: 975340
Network: ERM - Sonoco Network
VDC
1.844 " W.C.
Last Message : 71 Minutes ago Next Check-in: 08/05/2021 4:29 PM

Readings

1.844 " W.C.	08/05/2021 2:29 PM	Signal strength	Green status
1.876 " W.C.	08/05/2021 1:29 PM	Signal strength	Green status
1.876 " W.C.	08/05/2021 12:29 PM	Signal strength	Green status
1.88 " W.C.	08/05/2021 11:29 AM	Signal strength	Green status
1.884 " W.C.	08/05/2021 10:29 AM	Signal strength	Green status

Readings Chart 02/20/2021 - 07/06/2021



- Overview
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- Log Out

ERM - Sonoco Network

Sonoco System 1 Applied Vac.

Sonoco System 2 Applied Vac.

Sonoco System 3 Applied Vac.

Navigation bar with icons: back, details, menu, home, settings, tools, and search.

Details

Sensor: Sonoco System 3 Applied Vac.

Gateway: 975340
Network: ERM - Sonoco Network

0.916 °W.C.

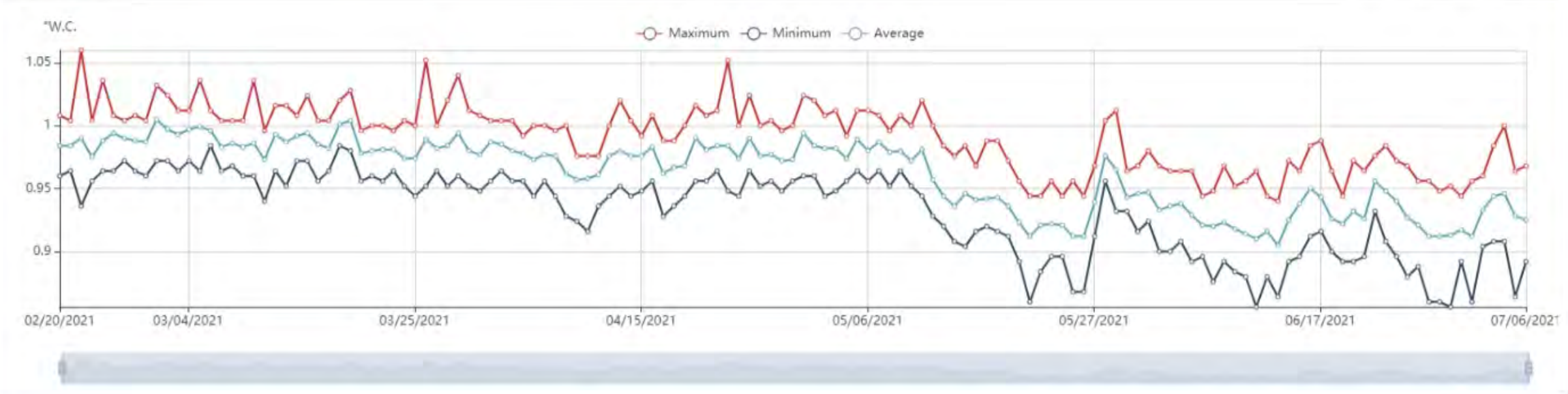
Last Message : 72 Minutes ago Next Check-in: 08/05/2021 4:30 PM

Readings

0.916 °W.C.	08/05/2021 2:30 PM		
0.936 °W.C.	08/05/2021 1:30 PM		
0.936 °W.C.	08/05/2021 12:30 PM		
0.968 °W.C.	08/05/2021 11:30 AM		
0.948 °W.C.	08/05/2021 10:30 AM		

Readings Chart

02/20/2021 - 07/06/2021





Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Greif, Inc. Facility Site Code: _____ Operable Unit: _____
Building Code: 2122CB Building Name: Greif, Inc. Facility
Address: 2122 Colvin Blvd. Apt/Suite No: _____
City: Tonawanda State: NY Zip: 14150 County: Erie

Contact Information

Preparer's Name: Austin Baker Phone No: (716) 706-9415
Preparer's Affiliation: Environmental Resources Management Company Code: ERM
Purpose of Investigation: Annual SSV and IA Sampling Event at VAC-09 Date of Inspection: Mar 9, 2021
Contact Name: Thomas J. Zugelder Affiliation: MANAGER
Phone No: 716-408-6134 Alt. Phone No: _____ Email: Tom.Zugelder@greif.c
Number of Occupants (total): _____ Number of Children: 0
 Occupant Interviewed? Owner Occupied? Owner Interviewed?
Owner Name (if different): _____ Owner Phone: _____
Owner Mailing Address: _____

Building Details

Bldg Type (Res/Com/Ind/Mixed): INDUSTRIAL Bldg Size (S/M/L): LARGE
If Commercial or Industrial Facility, Select Operations: MANUFACTURING
If Residential Select Structure Type: _____
Number of Floors: 2 Approx. Year Construction: 1950 Building Insulated? Attached Garage?
Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):
Average tightness.

Foundation Description

Foundation Type: NO BASEMENT/SLAB Foundation Depth (bgs): 10 Unit: FEET
Foundation Floor Material: _____ Foundation Floor Thickness: _____ Unit: INCHES
Foundation Wall Material: _____ Foundation Wall Thickness: _____
 Floor penetrations? Describe Floor Penetrations: Vacuum sample points and SSDS suction points.
 Wall penetrations? Describe Wall Penetrations: _____
Basement is: _____ Basement is: _____ Sumps/Drains? Water In Sump?: YES
Describe Foundation Condition (cracks, seepage, etc.) : _____
 Radon Mitigation System Installed? VOC Mitigation System Installed? Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: FORCED AIR Heat Fuel Type: GAS Central A/C Present?

Vented Appliances

Water Heater Fuel Type: GAS Clothes Dryer Fuel Type: NO CLOTHES DRYER
Water Htr Vent Location: OUTSIDE Dryer Vent Location: NONE



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Greif, Inc. Facility Site Code: _____ Operable Unit: _____

Building Code: 2122CB Building Name: Greif, Inc. Facility

Address: 2122 Colvin Blvd. Apt/Suite No: _____

City: Tonawanda State: NY Zip: 14150 County: Erie

Factors Affecting Indoor Air Quality

Frequency Basement/Lowest Level is Occupied?: ALMOST NEVER Floor Material: CEMENT

Inhabited? HVAC System On? Bathroom Exhaust Fan? Kitchen Exhaust Fan?

Alternate Heat Source: _____ Is there smoking in the building?

Air Fresheners? Description/Location of Air Freshener: Lavatory

Cleaning Products Used Recently?: Description of Cleaning Products: _____

Cosmetic Products Used Recently?: Description of Cosmetic Products: _____

New Carpet or Furniture? Location of New Carpet/Furniture: _____

Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: _____

Recent Painting/Staining? Location of New Painting: _____

Solvent or Chemical Odors? Describe Odors (if any): _____

Do Any Occupants Use Solvents At Work? If So, List Solvents Used: _____

Recent Pesticide/Rodenticide? Description of Last Use: _____

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

Facility is now vacant and all machines/materials have been removed

Any Prior Testing For Radon? If So, When?: _____

Any Prior Testing For VOCs? If So, When?: Jan 15, 2020

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 27 °F

Current Building Use: MANUFACTURING Barometric Pressure: 29.78 in(hg)

Product Inventory Complete? Yes Building Questionnaire Completed?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: 2122CB

Address: 2122 Colvin Blvd. Tonawanda, NY 14150

Sampling Information

Sampler Name(s): Austin Baker

Sampler Company Code: ERM

Sample Collection Date: Mar 9, 2021

Date Samples Sent To Lab: Mar 9, 2021

Sample Chain of Custody Number: _____

Outdoor Air Sample Location ID: OA-SW

SUMMA Canister Information

Sample ID:	<u>IA-VAC-09-20210</u>	<u>SSV-VAC-09</u>	<u>AA-SW-20210</u>	<u>DUP-01-2021</u>	
Location Code:					
Location Type:	<u>FIRST FLOOR</u>	<u>SUBSLAB</u>	<u>OUTDOOR</u>	<u>FIRST FLOOR</u>	
Canister ID:	<u>2838</u>	<u>2969</u>	<u>782</u>	<u>3277</u>	
Regulator ID:	<u>01276</u>	<u>01003</u>	<u>01192</u>	<u>0771</u>	
Matrix:	<u>Indoor Air</u>	<u>Subslab Soil</u>	<u>Ambient Outd</u>	<u>Indoor Air</u>	
Sampling Method:	<u>SUMMA AIR SAMPLI</u>	<u>SUMMA AIR SA</u>	<u>SUMMA AIR SA</u>	<u>SUMMA AIR SA</u>	

Sampling Area Info

Slab Thickness (inches):		<u>10</u>			
Sub-Slab Material:		<u>FILL</u>			
Sub-Slab Moisture:		<u>DRY</u>			
Seal Type:		<u>WAX</u>			
Seal Adequate?:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample Times and Vacuum Readings

Sample Start Date/Time:	<u>03/08/2021 9:03</u>	<u>03/08/2021</u>	<u>03/08/2021</u>	<u>03/08/2021</u>	
Vacuum Gauge Start:	<u>30.35</u>	<u>30.67</u>	<u>30.9</u>	<u>30.39</u>	
Sample End Date/Time:	<u>03/09/2021 9:03</u>	<u>03/09/2021</u>	<u>03/09/2021</u>	<u>03/09/2021</u>	
Vacuum Gauge End:	<u>5.15</u>	<u>8.63</u>	<u>2.58</u>	<u>5.98</u>	
Sample Duration (hrs):	<u>24</u>	<u>24</u>	<u>23.58</u>	<u>23.58</u>	
Vacuum Gauge Unit:	<u>psi</u>	<u>psi</u>	<u>psi</u>	<u>psi</u>	

Sample QA/QC Readings

Vapor Port Purge:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Purge PID Reading:		<u>0.2</u>			
Purge PID Unit:		<u>ppm</u>			
Tracer Test Pass:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name _____ Date/Time Prepared _____

Preparer's Affiliation _____ Phone No. _____

Purpose of Investigation _____

1. OCCUPANT:

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
Industrial	Church	Other: _____

If the property is residential, type?

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) _____

Does it include residences (i.e., multi-use)? _____ If yes, how many? _____

Other characteristics:

Number of floors _____ Building age _____

Is the building insulated? _____ How air tight? _____

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present?
- k. Water in sump?

Basement/Lowest level depth below grade: _____(feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (select all that apply – note primary)

- Hot air circulation
- Space Heaters
- Electric baseboard
- Heat pump
- Stream radiation
- Wood stove
- Hot water baseboard
- Radiant floor
- Outdoor wood boiler
- Other _____

The primary type of fuel used is:

- Natural Gas
- Electric
- Wood
- Fuel Oil
- Propane
- Coal
- Kerosene
- Solar

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other_____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present?

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement	_____
1 st Floor	_____
2 nd Floor	_____
3 rd Floor	_____
4 th Floor	_____

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

b. Does the garage have a separate heating unit?

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Please specify _____

d. Has the building ever had a fire?

When? _____

e. Is a kerosene or unvented gas space heater present?

Where? _____

f. Is there a workshop or hobby/craft area?

Where & Type? _____

g. Is there smoking in the building?

How frequently? _____

h. Have cleaning products been used recently?

When & Type? _____

i. Have cosmetic products been used recently?

When & Type? _____

- j. Has painting/staining been done in the last 6 months? Where & When? _____
- k. Is there new carpet, drapes or other textiles? Where & When? _____
- l. Have air fresheners been used recently? When & Type? _____
- m. Is there a kitchen exhaust fan? If yes, where vented? _____
- n. Is there a bathroom exhaust fan? If yes, where vented? _____
- o. Is there a clothes dryer? If yes, is it vented outside?
- p. Has there been a pesticide application? When & Type? _____

Are there odors in the building?

If yes, please describe: _____

Do any of the building occupants use solvents at work?

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work?

Do any of the building occupants regularly use or work at a dry-cleaning service? (Select appropriate response)

- | | |
|--|---------|
| Yes, use dry-cleaning regularly (weekly) | No |
| Yes, use dry-cleaning infrequently (monthly or less) | Unknown |
| Yes, work at a dry-cleaning service | |

Is there a radon mitigation system for the building/structure? Date of Installation: _____
Is the system active or passive?

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

- a. Provide reasons why relocation is recommended: _____
- b. Residents choose to:
- c. Responsibility for costs associated with reimbursement explained?
- d. Relocation package provided and explained to residents?



Environmental Resources Management
5788 Widewaters Parkway
Dewitt, New York 13213
 Phone: (315) 445-2554
 Fax: (315) 445-2543

Project #: 0560651
 Project Name:
 Location: Tonawanda, NY
 Project Manager: Jason Reynolds

Sample Location:		Collector(s):	Austin Baker
Address:	2122 Colvin Blvd Tonawanda, NY 14150		
PID Meter Used: (Model, Serial #)	MiniRae 3000, Serial #: PGM-7320		

SUMMA Canister Record:

INDOOR AIR		SUBSTRUCTURE SOIL GAS		AMBIENT AIR	
Canister Serial No:	01276	Canister Serial No:	01003	Canister Serial No:	782
Flow Controller Id No:	2838	Flow Controller Id No:	2969	Flow Controller Id No:	01192
Start Date/Time:	8-Mar-21	Start Date/Time:	8-Mar-21	Start Date/Time:	8-Mar-21
Start Pressure: (inches Hg)	-30.35	Start Pressure: (inches Hg)	-30.67	Start Pressure: (inches Hg)	-30.9
Stop Date/Time:	9-Mar-21	Stop Date/Time:	9-Mar-21	Stop Date/Time:	9-Mar-21
Stop Pressure: (inches Hg)	-5.15	Stop Pressure: (inches Hg)	-8.63	Stop Pressure: (inches Hg)	-2.58
Sample ID: IA-VAC-09-2021-0309-01		Sample ID: SSV-VAC-09-20210309-01		Sample ID: AA-SW-20210309-01	

Other Sampling Information:

Sample Category ID: (B, 1, 2, 3...)	IA	Sample Category ID: (A or A-1)	SSV	Sample Category ID: (AA)	AA
Story/Level	1	Basement or Crawl Space?	SLAB	Direction from Building	SW
Room	MAIN	Floor Slab Thickness (inches) [if present]	10"	Distance from Building	30FT
Indoor Air Temp (°F)	68	Potential Vapor Entry Points Observed?	YES	Intake Height Above Ground Level (ft.)	5.5
Intake Height Above Floor Level (ft.)	5.5	Ground Surface Condition (Crawl Space Only)	Good	Intake Tubing used?	None
Noticeable Odor?	None	If A, intake depth, if A-1, Intake Height (ft. relative to floor level)		Distance to nearest Roadway (ft.)	300
PID Reading (ppm)	0	PID Reading (ppm)	1.7	PID Reading (ppm)	0
Barometric Pressure ("Hg or mb)		Noticeable Odor?	No	Noticeable Odor?	No
Duplicate Sample?	Yes	Percent O ₂ /CO ₂ /CH ₄		Duplicate Sample?	No
DUP-01-20210309-01		Duplicate Sample?	No		

Comments:

92% in shroud/ 0 ppm at point/ 72% He Post

Signature: *Adrian*

APPENDIX E DATA USABILITY REPORTS

**DATA USABILITY SUMMARY REPORT (DUSR)
SONOCO, TONAWANDA, NEW YORK**

Client: Environmental Resources Management, Inc., Melville, New York
 SDG: L2041182
 Laboratory: Alpha Analytical, Westborough, Massachusetts
 Site: Sonoco, Tonawanda, New York
 Date: June 15, 2021

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-26-09282020	L2041182-01	Water
1MS++	MW-26-09282020MS	L2041182-01MS	Water
2	APW-3-09282020	L2041182-02	Water
3	MW-24-09282020	L2041182-03	Water
4	MW-14-09292020	L2041182-04	Water
4DL*	MW-14-09292020DL	L2041182-04DL	Water
5	DUP-01-09282020	L2041182-05	Water
6	MW-20-09292020	L2041182-06	Water
7	MW-25-09282020	L2041182-07	Water
7MS+	MW-25-09282020MS	L2041182-07MS	Water
7MSD**	MW-25-09282020MSD	L2041182-07MSD	Water
8	MW-27-09282020	L2041182-08	Water
9	MW-19-09282020	L2041182-09	Water
10	MW-22-09292020	L2041182-10	Water
11	MW-13-09292020	L2041182-11	Water
12	MW-12-09292020	L2041182-12	Water
13*	TRIP BLANK-09292020	L2041182-13	Water

* - VOC only + - DOC, VOC, Sulfate & MEE only ** - VOC, Sulfate & MEE only ++ - Sulfate only

A Data Usability Summary Review was performed on the analytical data for twelve water samples and one aqueous trip blank sample collected on September 28-29, 2020 by Environmental Resources Management at the Sonoco site in Tonawanda, New York. The samples were analyzed under the Environmental Protection Agency (USEPA) Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions, the Methods for Chemical Analysis of Water and Wastes and the Standard Methods for Examination of Water and Wastewater.

Specific method references are as follows:

Analysis

VOC
 Dissolved Gases
 Sulfate
 TDS
 DOC

Method References

USEPA SW-846 Method 8260C
 Method RSK-175
 USEPA Method 300.0
 Standard Method SM2540C
 USEPA SW-846 Method 9060A

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- SOP Number HW-3c, Revision 1, September 2016: Mercury and Cyanide Data Validation;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Holding times and sample preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

Inorganics

- Holding times and sample preservation
- Initial and continuing calibration verifications
- Method blank and field QC blank contamination
- Laboratory Control Sample (LCS) recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Volatile Organic Compounds (VOC)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) criteria and/or RRF values <0.05 in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D	Qualifier	Affected Samples
10/02/20 (1811)	Chloroethane	33.1%	UJ	2, 6

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC sample results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
TRIP BLANK-09292020	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

MS/MSD Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
7	Vinyl chloride	49%/OK/OK	J

Laboratory Control Samples (LCS/LCSD)

- The following table presents LCS/LCSD percent recoveries (%R) and/or RPD values outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

LCS/LCSD ID	Compound	LCS %R/LCSD %R/RPD	Qualifier	Affected Samples
WG1417770-3	Chloroethane	OK/140%/OK	None	Sample ND

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

- EDS Sample 4 was flagged (E) by the laboratory for trichloroethene indicating a calibration range exceedance. The sample was reanalyzed at a 400X dilution. The dilution result for this compound should be used for reporting purposes.

Tentative Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was unacceptable for 1,1-dichloroethene. These results were qualified as estimated (J).

Compound	MW-14-09292020 ug/L	DUP-01-09282020 ug/L	RPD	Qualifier
1,1-Dichloroethane	1900	1400	30%	None
1,1-Dichloroethene	880	490	57%	J
Trichloroethene	25000	28000	11%	None
cis-1,2-Dichloroethene	760	500	41%	None - <5X RL
1,2-Dichloroethene, total	760	500	41%	None - <5X RL

Dissolved Gases (MEE)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients.

Continuing Calibration

- All %D and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not analyzed.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples (LCS)

- The LCS samples exhibited acceptable percent recoveries (%R).

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	MW-14-09292020 ug/L	DUP-01-09282020 ug/L	RPD	Qualifier
Methane	4.34	3.03	36%	None - <5X RL
Ethene	0.822	0.944	14%	None

Sulfate, Total Dissolved Solids, Dissolved Organic Carbon

Holding Times

- All holding time criteria were met.

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- All continuing calibration criteria were met.

Method Blank

- The following table lists method blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations less than five times (5x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

Sample ID	Compound	Conc. mg/L	Qualifier	Affected Samples
WG1416695-1	DOC	0.17	None	For Wet Chemistry
WG1420129-1	DOC	0.07	None	For Wet Chemistry

Field Blank

- Field QC samples were not analyzed.

Laboratory Control Samples

- The LCS sample exhibited acceptable percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	MW-14-09292020 mg/L	DUP-01-09282020 mg/L	RPD	Qualifier
Sulfate	71.9	68.1	5%	None
Total Dissolved Solids	620	600	3%	
DOC	2.2	2.1	5%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 6/18/21
Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Results Summary
Form 1
Volatile Organics by GC/MS

Client : ERM, Inc.
Project Name : SONOCO
Lab ID : L2041182-01
Client ID : MW-26-09282020
Sample Location : TONAWANDA, NY
Sample Matrix : WATER
Analytical Method : 1,8260C
Lab File ID : V22201002A14
Sample Amount : 10 ml
Level : LOW
Extract Volume (MeOH) : N/A

Lab Number : L2041182
Project Number : 0560651
Date Collected : 09/28/20 13:30
Date Received : 09/29/20
Date Analyzed : 10/02/20 12:57
Dilution Factor : 1
Analyst : MKS
Instrument ID : VOA122
GC Column : RTX-502.2
%Solids : N/A
Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	8.1	2.5	0.70	
67-66-3	Chloroform	ND	2.5	0.70	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	0.48	0.50	0.17	J
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
67-64-1	Acetone	ND	5.0	1.5	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U

MT 10/15/21



2

Results Summary Form 1 Volatile Organics by GC/MS

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-02D
 Client ID : APW-3-09282020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05201002N22
 Sample Amount : 1 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/28/20 14:45
 Date Received : 09/29/20
 Date Analyzed : 10/03/20 02:19
 Dilution Factor : 10
 Analyst : MKS
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	25	7.0	U
75-34-3	1,1-Dichloroethane	800	25	7.0	
67-66-3	Chloroform	ND	25	7.0	U
79-00-5	1,1,2-Trichloroethane	ND	15	5.0	U
127-18-4	Tetrachloroethene	ND	5.0	1.8	U
107-06-2	1,2-Dichloroethane	1.3	5.0	1.3	J
71-55-6	1,1,1-Trichloroethane	1400	25	7.0	
71-43-2	Benzene	ND	5.0	1.6	U
108-88-3	Toluene	ND	25	7.0	U
100-41-4	Ethylbenzene	ND	25	7.0	U
75-01-4	Vinyl chloride	30	10	0.71	
75-00-3	Chloroethane	ND	25	7.0	U VS
75-35-4	1,1-Dichloroethene	660	5.0	1.7	
156-60-5	trans-1,2-Dichloroethene	ND	25	7.0	U
79-01-6	Trichloroethene	ND	5.0	1.8	U
179601-23-1	p/m-Xylene	ND	25	7.0	U
95-47-6	o-Xylene	ND	25	7.0	U
1330-20-7	Xylenes, Total	ND	25	7.0	U
156-59-2	cis-1,2-Dichloroethene	16	25	7.0	J
540-59-0	1,2-Dichloroethene, Total	16	25	7.0	J
67-64-1	Acetone	ND	50	15.	U
78-93-3	2-Butanone	ND	50	19.	U
108-10-1	4-Methyl-2-pentanone	ND	50	10.	U
95-63-6	1,2,4-Trimethylbenzene	ND	25	7.0	U

mm 10/15/21



3

Results Summary Form 1 Volatile Organics by GC/MS

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-03D
 Client ID : MW-24-09282020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22201002A19
 Sample Amount : 4 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/28/20 16:30
 Date Received : 09/29/20
 Date Analyzed : 10/02/20 15:02
 Dilution Factor : 2.5
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	6.2	1.8	U
75-34-3	1,1-Dichloroethane	2.6	6.2	1.8	J
67-66-3	Chloroform	ND	6.2	1.8	U
79-00-5	1,1,2-Trichloroethane	ND	3.8	1.2	U
127-18-4	Tetrachloroethene	ND	1.2	0.45	U
107-06-2	1,2-Dichloroethane	ND	1.2	0.33	U
71-55-6	1,1,1-Trichloroethane	ND	6.2	1.8	U
71-43-2	Benzene	2.9	1.2	0.40	
108-88-3	Toluene	ND	6.2	1.8	U
100-41-4	Ethylbenzene	ND	6.2	1.8	U
75-01-4	Vinyl chloride	83	2.5	0.18	
75-00-3	Chloroethane	ND	6.2	1.8	U
75-35-4	1,1-Dichloroethene	1.6	1.2	0.42	
156-60-5	trans-1,2-Dichloroethene	ND	6.2	1.8	U
79-01-6	Trichloroethene	360	1.2	0.44	
179601-23-1	p/m-Xylene	ND	6.2	1.8	U
95-47-6	o-Xylene	ND	6.2	1.8	U
1330-20-7	Xylenes, Total	ND	6.2	1.8	U
156-59-2	cis-1,2-Dichloroethene	240	6.2	1.8	
540-59-0	1,2-Dichloroethene, Total	240	6.2	1.8	
67-64-1	Acetone	ND	12	3.6	U
78-93-3	2-Butanone	ND	12	4.8	U
108-10-1	4-Methyl-2-pentanone	ND	12	2.5	U
95-63-6	1,2,4-Trimethylbenzene	ND	6.2	1.8	U

MT G/S/H



4

**Results Summary
Form 1
Volatile Organics by GC/MS**

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-04D2	Date Collected	: 09/29/20 10:30
Client ID	: MW-14-09292020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/03/20 02:42
Sample Matrix	: WATER	Dilution Factor	: 200
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V05201002N23	Instrument ID	: VOA105
Sample Amount	: 0.05 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	500	140	U
75-34-3	1,1-Dichloroethane	1900	500	140	
67-66-3	Chloroform	ND	500	140	U
79-00-5	1,1,2-Trichloroethane	ND	300	100	U
127-18-4	Tetrachloroethene	ND	100	36.	U
107-06-2	1,2-Dichloroethane	ND	100	26.	U
71-55-6	1,1,1-Trichloroethane	ND	500	140	U
71-43-2	Benzene	ND	100	32.	U
108-88-3	Toluene	ND	500	140	U
100-41-4	Ethylbenzene	ND	500	140	U
75-01-4	Vinyl chloride	ND	200	14.	U
75-00-3	Chloroethane	ND	500	140	U
75-35-4	1,1-Dichloroethane	880	100	34.	J
156-60-5	trans-1,2-Dichloroethene	ND	500	140	U
79-01-6	Trichloroethene	25000	43000	200 100	7035 ✓
179601-23-1	p/m-Xylene	ND	500	140	U
95-47-6	o-Xylene	ND	500	140	U
1330-20-7	Xylenes, Total	ND	500	140	U
156-59-2	cis-1,2-Dichloroethene	760	500	140	
540-59-0	1,2-Dichloroethene, Total	760	500	140	
67-64-1	Acetone	ND	1000	290	U
78-93-3	2-Butanone	ND	1000	390	U
108-10-1	4-Methyl-2-pentanone	ND	1000	200	U
95-63-6	1,2,4-Trimethylbenzene	ND	500	140	U

MT WIS/14



**Results Summary
Form 1
Volatile Organics by GC/MS**

4DL

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-04D
 Client ID : MW-14-09292020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22201002A20
 Sample Amount : 0.025 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/29/20 10:30
 Date Received : 09/29/20
 Date Analyzed : 10/02/20 15:27
 Dilution Factor : 400
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

Use original

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
79-01-6	Trichloroethene	25000	200	70.	

mt 10/15/21



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Results Summary Form 1 Volatile Organics by GC/MS

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-05D	Date Collected	: 09/29/20 12:00
Client ID	: DUP-01-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/02/20 15:52
Sample Matrix	: WATER	Dilution Factor	: 250
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V22201002A21	Instrument ID	: VOA122
Sample Amount	: 0.04 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	620	180	U
75-34-3	1,1-Dichloroethane	1400	620	180	
67-66-3	Chloroform	ND	620	180	U
79-00-5	1,1,2-Trichloroethane	ND	380	120	U
127-18-4	Tetrachloroethene	ND	120	45.	U
107-06-2	1,2-Dichloroethane	ND	120	33.	U
71-55-6	1,1,1-Trichloroethane	ND	620	180	U
71-43-2	Benzene	ND	120	40.	U
108-88-3	Toluene	ND	620	180	U
100-41-4	Ethylbenzene	ND	620	180	U
75-01-4	Vinyl chloride	ND	250	18.	U
75-00-3	Chloroethane	ND	620	180	U
75-35-4	1,1-Dichloroethene	490	120	42.	J
156-60-5	trans-1,2-Dichloroethene	ND	620	180	U
79-01-6	Trichloroethene	28000	120	44.	
179601-23-1	p/m-Xylene	ND	620	180	U
95-47-6	o-Xylene	ND	620	180	U
1330-20-7	Xylenes, Total	ND	620	180	U
156-59-2	cis-1,2-Dichloroethene	500	620	180	J
540-59-0	1,2-Dichloroethene, Total	500	620	180	J
67-64-1	Acetone	ND	1200	360	U
78-93-3	2-Butanone	ND	1200	480	U
108-10-1	4-Methyl-2-pentanone	ND	1200	250	U
95-63-6	1,2,4-Trimethylbenzene	ND	620	180	U

MT 6/15/11



6

Results Summary
Form 1
Volatile Organics by GC/MS

Client : ERM, Inc.
Project Name : SONOCO
Lab ID : L2041182-06D
Client ID : MW-20-09292020
Sample Location : TONAWANDA, NY
Sample Matrix : WATER
Analytical Method : 1,8260C
Lab File ID : V05201002N24
Sample Amount : 0.002 ml
Level : LOW
Extract Volume (MeOH) : N/A

Lab Number : L2041182
Project Number : 0560651
Date Collected : 09/29/20 12:05
Date Received : 09/29/20
Date Analyzed : 10/03/20 03:05
Dilution Factor : 5000
Analyst : MKS
Instrument ID : VOA105
GC Column : RTX-502.2
%Solids : N/A
Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	12000	3500	U
75-34-3	1,1-Dichloroethane	15000	12000	3500	
67-66-3	Chloroform	ND	12000	3500	U
79-00-5	1,1,2-Trichloroethane	ND	7500	2500	U
127-18-4	Tetrachloroethene	ND	2500	900	U
107-06-2	1,2-Dichloroethane	ND	2500	660	U
71-55-6	1,1,1-Trichloroethane	660000	12000	3500	
71-43-2	Benzene	ND	2500	800	U
108-88-3	Toluene	ND	12000	3500	U
100-41-4	Ethylbenzene	ND	12000	3500	U
75-01-4	Vinyl chloride	ND	5000	360	U
75-00-3	Chloroethane	ND	12000	3500	✓ US
75-35-4	1,1-Dichloroethene	8800	2500	840	
156-60-5	trans-1,2-Dichloroethene	ND	12000	3500	U
79-01-6	Trichloroethene	150000	2500	880	
179601-23-1	p/m-Xylene	ND	12000	3500	U
95-47-6	o-Xylene	ND	12000	3500	U
1330-20-7	Xylenes, Total	ND	12000	3500	U
156-59-2	cis-1,2-Dichloroethene	ND	12000	3500	U
540-59-0	1,2-Dichloroethene, Total	ND	12000	3500	U
67-64-1	Acetone	ND	25000	7300	U
78-93-3	2-Butanone	ND	25000	9700	U
108-10-1	4-Methyl-2-pentanone	ND	25000	5000	U
95-63-6	1,2,4-Trimethylbenzene	ND	12000	3500	U

MKT 10/15/21



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Results Summary Form 1 Volatile Organics by GC/MS

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-07	Date Collected	: 09/28/20 15:45
Client ID	: MW-25-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/02/20 19:27
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: VG201002A25	Instrument ID	: GONZO
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	3.1	2.5	0.70	
67-66-3	Chloroform	ND	2.5	0.70	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
71-43-2	Benzene	0.33	0.50	0.16	J
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
75-01-4	Vinyl chloride	6.1	1.0	0.07	J
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	4.7	2.5	0.70	
540-59-0	1,2-Dichloroethene, Total	4.7	2.5	0.70	
67-64-1	Acetone	ND	5.0	1.5	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U

MY W/S/n



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Results Summary

Form 1

Volatile Organics by GC/MS

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-08
 Client ID : MW-27-09282020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22201002A15
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/28/20 14:35
 Date Received : 09/29/20
 Date Analyzed : 10/02/20 13:22
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	33	2.5	0.70	
67-66-3	Chloroform	ND	2.5	0.70	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	1.9	2.5	0.70	J
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	3.8	0.50	0.17	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	6.4	0.50	0.18	
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	1.2	2.5	0.70	J
540-59-0	1,2-Dichloroethene, Total	1.2	2.5	0.70	J
67-64-1	Acetone	ND	5.0	1.5	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U

MKT G/15/21



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Results Summary Form 1 Volatile Organics by GC/MS

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-09	Date Collected	: 09/28/20 13:15
Client ID	: MW-19-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/02/20 13:47
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V22201002A16	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
67-64-1	Acetone	ND	5.0	1.5	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U

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10

Results Summary Form 1 Volatile Organics by GC/MS

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-10
 Client ID : MW-22-09292020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22201002A17
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/29/20 10:25
 Date Received : 09/29/20
 Date Analyzed : 10/02/20 14:12
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	37	2.5	0.70	
67-66-3	Chloroform	ND	2.5	0.70	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
75-01-4	Vinyl chloride	0.65	1.0	0.07	J
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	1.5	0.50	0.17	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	6.8	0.50	0.18	
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	18	2.5	0.70	
540-59-0	1,2-Dichloroethene, Total	18	2.5	0.70	
67-64-1	Acetone	ND	5.0	1.5	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U

MT W/S/A



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Results Summary Form 1 Volatile Organics by GC/MS

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-11D
 Client ID : MW-13-09292020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22201002A23
 Sample Amount : 0.04 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/29/20 11:35
 Date Received : 09/29/20
 Date Analyzed : 10/02/20 16:43
 Dilution Factor : 250
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	620	180	U
75-34-3	1,1-Dichloroethane	4000	620	180	
67-66-3	Chloroform	ND	620	180	U
79-00-5	1,1,2-Trichloroethane	ND	380	120	U
127-18-4	Tetrachloroethene	ND	120	45.	U
107-06-2	1,2-Dichloroethane	41	120	33.	J
71-55-6	1,1,1-Trichloroethane	6600	620	180	
71-43-2	Benzene	ND	120	40.	U
108-88-3	Toluene	ND	620	180	U
100-41-4	Ethylbenzene	ND	620	180	U
75-01-4	Vinyl chloride	98	250	18.	J
75-00-3	Chloroethane	ND	620	180	U
75-35-4	1,1-Dichloroethene	3800	120	42.	
156-60-5	trans-1,2-Dichloroethene	ND	620	180	U
79-01-6	Trichloroethene	26000	120	44.	
179601-23-1	p/m-Xylene	ND	620	180	U
95-47-6	o-Xylene	ND	620	180	U
1330-20-7	Xylenes, Total	ND	620	180	U
156-59-2	cis-1,2-Dichloroethene	4500	620	180	
540-59-0	1,2-Dichloroethene, Total	4500	620	180	
67-64-1	Acetone	ND	1200	360	U
78-93-3	2-Butanone	ND	1200	480	U
108-10-1	4-Methyl-2-pentanone	ND	1200	250	U
95-63-6	1,2,4-Trimethylbenzene	ND	620	180	U

MT W/S/21



12

Results Summary Form 1 Volatile Organics by GC/MS

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-12D	Date Collected	: 09/29/20 13:50
Client ID	: MW-12-09292020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/02/20 17:08
Sample Matrix	: WATER	Dilution Factor	: 10
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V22201002A24	Instrument ID	: VOA122
Sample Amount	: 1 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	25	7.0	U
75-34-3	1,1-Dichloroethane	710	25	7.0	
67-66-3	Chloroform	ND	25	7.0	U
79-00-5	1,1,2-Trichloroethane	ND	15	5.0	U
127-18-4	Tetrachloroethene	ND	5.0	1.8	U
107-06-2	1,2-Dichloroethane	2.1	5.0	1.3	J
71-55-6	1,1,1-Trichloroethane	69	25	7.0	
71-43-2	Benzene	ND	5.0	1.6	U
106-88-3	Toluene	ND	25	7.0	U
100-41-4	Ethylbenzene	ND	25	7.0	U
75-01-4	Vinyl chloride	71	10	0.71	
75-00-3	Chloroethane	ND	25	7.0	U
75-35-4	1,1-Dichloroethene	180	5.0	1.7	
156-60-5	trans-1,2-Dichloroethene	25	25	7.0	
79-01-6	Trichloroethene	150	5.0	1.8	
179601-23-1	p/m-Xylene	ND	25	7.0	U
95-47-6	o-Xylene	ND	25	7.0	U
1330-20-7	Xylenes, Total	ND	25	7.0	U
156-59-2	cis-1,2-Dichloroethene	850	25	7.0	
540-59-0	1,2-Dichloroethene, Total	880	25	7.0	
67-64-1	Acetone	ND	50	15.	U
78-93-3	2-Butanone	ND	50	19.	U
108-10-1	4-Methyl-2-pentanone	ND	50	10.	U
95-63-6	1,2,4-Trimethylbenzene	ND	25	7.0	U

MT 10/1/21



13

Results Summary Form 1 Volatile Organics by GC/MS

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-13
 Client ID : TRIP BLANK-09292020
 Sample Location : TONAWANDA, NY
 Sample Matrix : Trip Blank (aqueous)
 Analytical Method : 1,8260C
 Lab File ID : V22201002A13
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/29/20 00:00
 Date Received : 09/29/20
 Date Analyzed : 10/02/20 12:32
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chlorofom	ND	2.5	0.70	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
67-64-1	Acetone	ND	5.0	1.5	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U

MT G/S/M



**Results Summary
Form 1
Dissolved Gases by GC**

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-01
 Client ID : MW-26-09282020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 117,-
 Lab File ID : R0933861
 Sample Amount : 0.5 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/28/20 13:30
 Date Received : 09/29/20
 Date Analyzed : 10/05/20 13:13
 Dilution Factor : 1
 Analyst : AW
 Instrument ID : AIRLAB9
 GC Column :
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
74-82-8	Methane	929	2.00	2.00	
74-85-1	Ethene	ND	0.500	0.500	U
74-84-0	Ethane	ND	0.500	0.500	U

MT 10/15/20



2

Results Summary Form 1 Dissolved Gases by GC

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-02
 Client ID : APW-3-09282020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 117,-
 Lab File ID : R0933862
 Sample Amount : 0.5 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/28/20 14:45
 Date Received : 09/29/20
 Date Analyzed : 10/05/20 13:36
 Dilution Factor : 1
 Analyst : AW
 Instrument ID : AIRLAB9
 GC Column :
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
74-82-8	Methane	1220	2.00	2.00	
74-85-1	Ethene	6.33	0.500	0.500	
74-84-0	Ethane	5.06	0.500	0.500	

MT WIS/21



3

Results Summary Form 1 Dissolved Gases by GC

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-03	Date Collected	: 09/28/20 16:30
Client ID	: MW-24-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/05/20 13:59
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 117,-	Analyst	: AW
Lab File ID	: R0933863	Instrument ID	: AIRLAB9
Sample Amount	: 0.5 ml	GC Column	:
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
74-82-8	Methane	363	2.00	2.00	
74-85-1	Ethene	15.5	0.500	0.500	
74-84-0	Ethane	49.9	0.500	0.500	

MT G/L/N



4

Results Summary Form 1 Dissolved Gases by GC

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-04	Date Collected	: 09/29/20 10:30
Client ID	: MW-14-09292020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/05/20 14:21
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 117,-	Analyst	: AW
Lab File ID	: R0933864	Instrument ID	: AIRLAB9
Sample Amount	: 0.5 ml	GC Column	:
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
74-82-8	Methane	4.34	2.00	2.00	
74-85-1	Ethene	0.822	0.500	0.500	
74-84-0	Ethane	ND	0.500	0.500	U

MT 10/15/21



5

Results Summary Form 1 Dissolved Gases by GC

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-05
 Client ID : DUP-01-09282020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 117,-
 Lab File ID : R0933865
 Sample Amount : 0.5 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/29/20 12:00
 Date Received : 09/29/20
 Date Analyzed : 10/05/20 14:44
 Dilution Factor : 1
 Analyst : AW
 Instrument ID : AIRLAB9
 GC Column :
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
74-82-8	Methane	3.03	2.00	2.00	
74-85-1	Ethene	0.944	0.500	0.500	
74-84-0	Ethane	ND	0.500	0.500	U

MT 6/15/21



6

Results Summary Form 1 Dissolved Gases by GC

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-06
 Client ID : MW-20-09292020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 117,-
 Lab File ID : R0933866
 Sample Amount : 0.5 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/29/20 12:05
 Date Received : 09/29/20
 Date Analyzed : 10/05/20 15:07
 Dilution Factor : 1
 Analyst : AW
 Instrument ID : AIRLAB9
 GC Column :
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
74-82-8	Methane	9.39	2.00	2.00	
74-85-1	Ethene	1.93	0.500	0.500	
74-84-0	Ethane	11.9	0.500	0.500	

MT 10/15/20



7

Results Summary Form 1 Dissolved Gases by GC

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-07	Date Collected	: 09/28/20 15:45
Client ID	: MW-25-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/05/20 11:50
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 117,-	Analyst	: AW
Lab File ID	: R0933857	Instrument ID	: AIRLAB9
Sample Amount	: 0.5 ml	GC Column	:
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
74-82-8	Methane	299	2.00	2.00	
74-85-1	Ethene	ND	0.500	0.500	U
74-84-0	Ethane	3.18	0.500	0.500	

MT W/S/4



8

Results Summary Form 1 Dissolved Gases by GC

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-08	Date Collected	: 09/28/20 14:35
Client ID	: MW-27-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/05/20 15:29
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 117,-	Analyst	: AW
Lab File ID	: R0933867	Instrument ID	: AIRLAB9
Sample Amount	: 0.5 ml	GC Column	:
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
74-82-8	Methane	ND	2.00	2.00	U
74-85-1	Ethene	ND	0.500	0.500	U
74-84-0	Ethane	ND	0.500	0.500	U

MT 10/15/20



9

Results Summary Form 1 Dissolved Gases by GC

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-09	Date Collected	: 09/28/20 13:15
Client ID	: MW-19-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/05/20 16:15
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 117,-	Analyst	: AW
Lab File ID	: R0933869	Instrument ID	: AIRLAB9
Sample Amount	: 0.5 ml	GC Column	:
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
74-82-8	Methane	4.86	2.00	2.00	
74-85-1	Ethene	ND	0.500	0.500	U
74-84-0	Ethane	ND	0.500	0.500	U

MT 6/15/21



10

Results Summary Form 1 Dissolved Gases by GC

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-10
 Client ID : MW-22-09292020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 117,-
 Lab File ID : R0933870
 Sample Amount : 0.5 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/29/20 10:25
 Date Received : 09/29/20
 Date Analyzed : 10/05/20 16:38
 Dilution Factor : 1
 Analyst : AW
 Instrument ID : AIRLAB9
 GC Column :
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
74-82-8	Methane	12.2	2.00	2.00	
74-85-1	Ethene	ND	0.500	0.500	U
74-84-0	Ethane	ND	0.500	0.500	U

MT 6/15/21



11

Results Summary Form 1 Dissolved Gases by GC

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-11	Date Collected	: 09/29/20 11:35
Client ID	: MW-13-09292020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/05/20 17:00
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 117,-	Analyst	: AW
Lab File ID	: R0933871	Instrument ID	: AIRLAB9
Sample Amount	: 0.5 ml	GC Column	:
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
74-82-8	Methane	274	2.00	2.00	
74-85-1	Ethene	13.2	0.500	0.500	
74-84-0	Ethane	0.854	0.500	0.500	

MA WIS/21



12

Results Summary Form 1 Dissolved Gases by GC

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-12	Date Collected	: 09/29/20 13:50
Client ID	: MW-12-09292020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/05/20 17:23
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 117,-	Analyst	: AW
Lab File ID	: R0933872	Instrument ID	: AIRLAB9
Sample Amount	: 0.5 ml	GC Column	:
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
74-82-8	Methane	41.8	2.00	2.00	
74-85-1	Ethene	2.04	0.500	0.500	
74-84-0	Ethane	0.960	0.500	0.500	

MT 6/15/21



Form 1 WETCHEM

Client : ERM, Inc.
Project Name : SONOCO
Lab ID : L2041182-01
Client ID : MW-26-09282020
Sample Location : TONAWANDA, NY
Sample Matrix : WATER
Analytical Method : 44,300.0
Lab File ID : 201001-WG1417651
Sample Amount :
Digestion Method :

Lab Number : L2041182
Project Number : 0560651
Date Collected : 09/28/20 13:30
Date Received : 09/29/20
Date Analyzed : 10/01/20 15:35
Dilution Factor : 100
Analyst : JT
Instrument ID : IC3
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	1150	100	45.4	

MT 6/15/21



2

Form 1 WETCHEM

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-02
 Client ID : APW-3-09282020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 44,300.0
 Lab File ID : 201001-WG1417651
 Sample Amount :
 Digestion Method :

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/28/20 14:45
 Date Received : 09/29/20
 Date Analyzed : 10/01/20 16:11
 Dilution Factor : 5
 Analyst : JT
 Instrument ID : IC3
 %Solids : N/A
 Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	74.8	5.00	2.27	

MT 10/15/21



3

**Form 1
WETCHEM**

Client : ERM, Inc.
Project Name : SONOCO
Lab ID : L2041182-03
Client ID : MW-24-09282020
Sample Location : TONAWANDA, NY
Sample Matrix : WATER
Analytical Method : 44,300.0
Lab File ID : 201001-WG1417651
Sample Amount :
Digestion Method :

Lab Number : L2041182
Project Number : 0560651
Date Collected : 09/28/20 16:30
Date Received : 09/29/20
Date Analyzed : 10/01/20 16:23
Dilution Factor : 10
Analyst : JT
Instrument ID : IC3
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	408.	10.0	4.54	

MT 10/15/21



4

Form 1 WETCHEM

Client : ERM, Inc.
Project Name : SONOCO
Lab ID : L2041182-04
Client ID : MW-14-09292020
Sample Location : TONAWANDA, NY
Sample Matrix : WATER
Analytical Method : 44,300.0
Lab File ID : 201001-WG1417651
Sample Amount :
Digestion Method :

Lab Number : L2041182
Project Number : 0560651
Date Collected : 09/29/20 10:30
Date Received : 09/29/20
Date Analyzed : 10/01/20 16:35
Dilution Factor : 5
Analyst : JT
Instrument ID : IC3
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	71.9	5.00	2.27	

MT 10/15/21



5

Form 1 WETCHEM

Client : ERM, Inc.
Project Name : SONOCO
Lab ID : L2041182-05
Client ID : DUP-01-09282020
Sample Location : TONAWANDA, NY
Sample Matrix : WATER
Analytical Method : 44,300.0
Lab File ID : 201001-WG1417651
Sample Amount :
Digestion Method :

Lab Number : L2041182
Project Number : 0560651
Date Collected : 09/29/20 12:00
Date Received : 09/29/20
Date Analyzed : 10/01/20 16:47
Dilution Factor : 5
Analyst : JT
Instrument ID : IC3
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	68.1	5.00	2.27	

MT W/SLM



6

Form 1 WETCHEM

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-06
 Client ID : MW-20-09292020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 44,300.0
 Lab File ID : 201001-WG1417651
 Sample Amount :
 Digestion Method :

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/29/20 12:05
 Date Received : 09/29/20
 Date Analyzed : 10/01/20 16:59
 Dilution Factor : 10
 Analyst : JT
 Instrument ID : IC3
 %Solids : N/A
 Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	470.	10.0	4.54	

MT 10/15/21



7

Form 1 WETCHEM

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-07
 Client ID : MW-25-09282020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 44,300.0
 Lab File ID : 201002-WG1417652-A
 Sample Amount :
 Digestion Method :

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/28/20 15:45
 Date Received : 09/29/20
 Date Analyzed : 10/02/20 13:13
 Dilution Factor : 100
 Analyst : JT
 Instrument ID : IC3
 %Solids : N/A
 Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	2440	100	45.4	

MT 10/15/20



8

Form 1 WETCHEM

Client : ERM, Inc.
Project Name : SONOCO
Lab ID : L2041182-08
Client ID : MW-27-09282020
Sample Location : TONAWANDA, NY
Sample Matrix : WATER
Analytical Method : 44,300.0
Lab File ID : 201001-WG1417651
Sample Amount :
Digestion Method :

Lab Number : L2041182
Project Number : 0560651
Date Collected : 09/28/20 14:35
Date Received : 09/29/20
Date Analyzed : 10/01/20 17:11
Dilution Factor : 5
Analyst : JT
Instrument ID : IC3
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	96.6	5.00	2.27	

MT 10/15/21



9

Form 1 WETCHEM

Client : ERM, Inc.
Project Name : SONOCO
Lab ID : L2041182-09
Client ID : MW-19-09282020
Sample Location : TONAWANDA, NY
Sample Matrix : WATER
Analytical Method : 44,300.0
Lab File ID : 201001-WG1417651
Sample Amount :
Digestion Method :

Lab Number : L2041182
Project Number : 0560651
Date Collected : 09/28/20 13:15
Date Received : 09/29/20
Date Analyzed : 10/01/20 17:24
Dilution Factor : 5
Analyst : JT
Instrument ID : IC3
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	67.4	5.00	2.27	

MT W/S/21



10

Form 1 WETCHEM

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-10
 Client ID : MW-22-09292020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 44,300.0
 Lab File ID : 201001-WG1417651
 Sample Amount :
 Digestion Method :

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/29/20 10:25
 Date Received : 09/29/20
 Date Analyzed : 10/01/20 17:36
 Dilution Factor : 25
 Analyst : JT
 Instrument ID : IC3
 %Solids : N/A
 Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	590.	25.0	11.4	

MT 6/15/21



11

Form 1 WETCHEM

Client : ERM, Inc.
Project Name : SONOCO
Lab ID : L2041182-11
Client ID : MW-13-09292020
Sample Location : TONAWANDA, NY
Sample Matrix : WATER
Analytical Method : 44,300.0
Lab File ID : 201002-WG1417652-A
Sample Amount :
Digestion Method :

Lab Number : L2041182
Project Number : 0560651
Date Collected : 09/29/20 11:35
Date Received : 09/29/20
Date Analyzed : 10/02/20 13:26
Dilution Factor : 5
Analyst : JT
Instrument ID : IC3
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	98.4	5.00	2.27	

MT 6/15/21



12

Form 1 WETCHEM

Client : ERM, Inc.
Project Name : SONOCO
Lab ID : L2041182-12
Client ID : MW-12-09292020
Sample Location : TONAWANDA, NY
Sample Matrix : WATER
Analytical Method : 44,300.0
Lab File ID : 201002-WG1417652-A
Sample Amount :
Digestion Method :

Lab Number : L2041182
Project Number : 0560651
Date Collected : 09/29/20 13:50
Date Received : 09/29/20
Date Analyzed : 10/02/20 13:38
Dilution Factor : 10
Analyst : JT
Instrument ID : IC3
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	275.	10.0	4.54	

MT G/IS/M



Form 1 WETCHEM

Client : ERM, Inc.	Lab Number : L2041182
Project Name : SONOCO	Project Number : 0560651
Lab ID : L2041182-01	Date Collected : 09/28/20 13:30
Client ID : MW-26-09282020	Date Received : 09/29/20
Sample Location : TONAWANDA, NY	Date Analyzed : 10/02/20 13:25
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 121,2540C	Analyst : DW
Lab File ID : WG1417186.csv	Instrument ID :
Sample Amount :	%Solids : N/A
Digestion Method :	Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	1700	10	3.1	

MT 10/15/20



2

Form 1 WETCHEM

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-02
 Client ID : APW-3-09282020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 121,2540C
 Lab File ID : WG1417186.csv
 Sample Amount :
 Digestion Method :

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/28/20 14:45
 Date Received : 09/29/20
 Date Analyzed : 10/02/20 13:25
 Dilution Factor : 1
 Analyst : DW
 Instrument ID :
 %Solids : N/A
 Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	740	10	3.1	

MT 10/15/21



3

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-03	Date Collected	: 09/28/20 16:30
Client ID	: MW-24-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/02/20 13:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2540C	Analyst	: DW
Lab File ID	: WG1417186.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solds, Total Dissolved	1100	10	3.1	

MR W/S/M



4

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-04	Date Collected	: 09/29/20 10:30
Client ID	: MW-14-09292020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/02/20 13:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2540C	Analyst	: DW
Lab File ID	: WG1417186.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	620	10	3.1	

MT 10/15/21



5

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-05	Date Collected	: 09/29/20 12:00
Client ID	: DUP-01-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/02/20 13:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2540C	Analyst	: DW
Lab File ID	: WG1417186.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	600	10	3.1	

MT 6/15/21



6

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-06	Date Collected	: 09/29/20 12:05
Client ID	: MW-20-09292020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/02/20 13:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2540C	Analyst	: DW
Lab File ID	: WG1417186.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	1500	10	3.1	

MT 6/15/21



7

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-07	Date Collected	: 09/28/20 15:45
Client ID	: MW-25-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/02/20 13:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2540C	Analyst	: DW
Lab File ID	: WG1417186.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	4400	10	3.1	

MT W/15/21



8

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-08	Date Collected	: 09/28/20 14:35
Client ID	: MW-27-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/02/20 13:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2540C	Analyst	: DW
Lab File ID	: WG1417186.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	670	10	3.1	

MT 10/15/21



9

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-09	Date Collected	: 09/28/20 13:15
Client ID	: MW-19-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/02/20 13:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2540C	Analyst	: DW
Lab File ID	: WG1417186.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solds, Total Dissolved	600	10	3.1	

MT 6/15/21



10

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-10	Date Collected	: 09/29/20 10:25
Client ID	: MW-22-09292020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/02/20 13:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2540C	Analyst	: DW
Lab File ID	: WG1417186.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	1300	10	3.1	

MT 6/15/21



11

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-11	Date Collected	: 09/29/20 11:35
Client ID	: MW-13-09292020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/02/20 13:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2540C	Analyst	: DW
Lab File ID	: WG1417189.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	1300	10	3.1	

MT G/IS/21



12

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-12	Date Collected	: 09/29/20 13:50
Client ID	: MW-12-09292020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/02/20 13:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2540C	Analyst	: DW
Lab File ID	: WG1417189.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	1100	10	3.1	

MP G/S/H



1

Form 1 WETCHEM

Client : ERM, Inc.	Lab Number : L2041182
Project Name : SONOCO	Project Number : 0560651
Lab ID : L2041182-01	Date Collected : 09/28/20 13:30
Client ID : MW-26-09282020	Date Received : 09/29/20
Sample Location : TONAWANDA, NY	Date Analyzed : 10/08/20 08:18
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,9060A	Analyst : DW
Lab File ID : WG1416695A	Instrument ID : TOC-VW4
Sample Amount :	%Solids : N/A
Digestion Method :	Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Dissolved Organic Carbon	2.1	1.0	0.04	

MT 6/15/21



2

Form 1
WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-02	Date Collected	: 09/28/20 14:45
Client ID	: APW-3-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/08/20 08:47
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,9060A	Analyst	: DW
Lab File ID	: WG1416695A	Instrument ID	: TOC-VW4
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Dissolved Organic Carbon	4.5	1.0	0.04	

MT 6/15/21



3

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-03	Date Collected	: 09/28/20 16:30
Client ID	: MW-24-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/08/20 09:26
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,9060A	Analyst	: DW
Lab File ID	: WG1416695A	Instrument ID	: TOC-VW4
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Dissolved Organic Carbon	8.7	1.0	0.04	

MT 10/15/21



4

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-04	Date Collected	: 09/29/20 10:30
Client ID	: MW-14-09292020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/08/20 09:57
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,9060A	Analyst	: DW
Lab File ID	: WG1416695A	Instrument ID	: TOC-VW4
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Dissolved Organic Carbon	2.2	1.0	0.04	

MT 9/15/24



5

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-05	Date Collected	: 09/29/20 12:00
Client ID	: DUP-01-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/08/20 10:28
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,9060A	Analyst	: DW
Lab File ID	: WG1416695A	Instrument ID	: TOC-VW4
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Dissolved Organic Carbon	2.1	1.0	0.04	

MT G/S/21



6

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-06	Date Collected	: 09/29/20 12:05
Client ID	: MW-20-09292020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/08/20 10:53
Sample Matrix	: WATER	Dilution Factor	: 10
Analytical Method	: 1,9060A	Analyst	: DW
Lab File ID	: WG1416695A	Instrument ID	: TOC-VW4
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Dissolved Organic Carbon	28	10	0.43	

MT 10/15/21



7

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-07	Date Collected	: 09/28/20 15:45
Client ID	: MW-25-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/08/20 11:31
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,9060A	Analyst	: DW
Lab File ID	: WG1416695A	Instrument ID	: TOC-VW4
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Dissolved Organic Carbon	1.5	1.0	0.04	

MT 6/15/21



8

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-08	Date Collected	: 09/28/20 14:35
Client ID	: MW-27-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/08/20 13:49
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,9060A	Analyst	: DW
Lab File ID	: WG1416695A	Instrument ID	: TOC-VW4
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Dissolved Organic Carbon	3.2	1.0	0.04	

WAT 6/15/21



9

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-09	Date Collected	: 09/28/20 13:15
Client ID	: MW-19-09282020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/08/20 14:17
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,9060A	Analyst	: DW
Lab File ID	: WG1416695A	Instrument ID	: TOC-VW4
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Dissolved Organic Carbon	1.5	1.0	0.04	

MT W/S/D



10

Form 1 WETCHEM

Client	: ERM, Inc.	Lab Number	: L2041182
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2041182-10	Date Collected	: 09/29/20 10:25
Client ID	: MW-22-09292020	Date Received	: 09/29/20
Sample Location	: TONAWANDA, NY	Date Analyzed	: 10/08/20 14:44
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,9060A	Analyst	: DW
Lab File ID	: WG1416695A	Instrument ID	: TOC-VW4
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Dissolved Organic Carbon	1.9	1.0	0.04	

MTT G/15/21



11

**Form 1
WETCHEM**

Client : ERM, Inc.
 Project Name : SONOCO
 Lab ID : L2041182-11
 Client ID : MW-13-09292020
 Sample Location : TONAWANDA, NY
 Sample Matrix : WATER
 Analytical Method : 1,9060A
 Lab File ID : WG1420129
 Sample Amount :
 Digestion Method :

Lab Number : L2041182
 Project Number : 0560651
 Date Collected : 09/29/20 11:35
 Date Received : 09/29/20
 Date Analyzed : 10/08/20 15:22
 Dilution Factor : 1
 Analyst : DW
 Instrument ID : TOC-VW4
 %Solids : N/A
 Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Dissolved Organic Carbon	5.9	1.0	0.04	

MT 10/15/21



12

Form 1 WETCHEM

Client : ERM, Inc.
Project Name : SONOCO
Lab ID : L2041182-12
Client ID : MW-12-09292020
Sample Location : TONAWANDA, NY
Sample Matrix : WATER
Analytical Method : 1,9060A
Lab File ID : WG1420129
Sample Amount :
Digestion Method :

Lab Number : L2041182
Project Number : 0560651
Date Collected : 09/29/20 13:50
Date Received : 09/29/20
Date Analyzed : 10/08/20 15:57
Dilution Factor : 1
Analyst : DW
Instrument ID : TOC-VW4
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Dissolved Organic Carbon	2.8	1.0	0.04	

MT 6/15/21



**DATA USABILITY SUMMARY REPORT (DUSR)
SONOCO, TONAWANDA, NEW YORK**

Client: Environmental Resources Management, Inc., Melville, New York
 SDG: L2046870
 Laboratory: Alpha Analytical, Westborough, Massachusetts
 Site: Sonoco, Tonawanda, New York
 Date: June 15, 2021

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-18-10272020-01	L2046870-01	Water
1MS+	MW-18-10272020-01MS	L2046870-01MS	Water
2*	TRIP BLANK	L2046870-02	Water

* - VOC only + - DOC only

A Data Usability Summary Review was performed on the analytical data for one water sample and one aqueous trip blank sample collected on October 27, 2020 by Environmental Resources Management at the Sonoco site in Tonawanda, New York. The samples were analyzed under the Environmental Protection Agency (USEPA) Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions, the Methods for Chemical Analysis of Water and Wastes and the Standard Methods for Examination of Water and Wastewater.

Specific method references are as follows:

Analysis

VOC
 Dissolved Gases
 TDS
 DOC

Method References

USEPA SW-846 Method 8260C
 Method RSK-175
 Standard Method SM2540C
 USEPA SW-846 Method 9060A

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- SOP Number HW-3c, Revision 1, September 2016: Mercury and Cyanide Data Validation;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Holding times and sample preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

Inorganics

- Holding times and sample preservation
- Initial and continuing calibration verifications
- Method blank and field QC blank contamination
- Laboratory Control Sample (LCS) recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Volatile Organic Compounds (VOC)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) criteria and/or RRF values <0.05 in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D	Qualifier	Affected Samples
10/30/20 (0713)	Dichlorodifluoromethane	62.7%	UJ	1, 2
	Vinyl chloride	31.8%	J/UJ	

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC sample results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
TRIP BLANK	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples (LCS/LCSD)

- The following table presents LCS/LCSD percent recoveries (%R) and/or RPD values outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

LCS/LCSD ID	Compound	LCS %R/LCSD %R/RPD	Qualifier	Affected Samples
WG1428747-3	Dichlorodifluoromethane	160%/160%/OK	None	All Associated ND

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Tentative Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Dissolved Gases (MEE)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients.

Continuing Calibration

- All %D and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not analyzed.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples (LCS/LCSD)

- The LCS/LCSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Total Dissolved Solids & Dissolved Organic Carbon

Holding Times

- All holding time criteria were met.

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- All continuing calibration criteria were met.

Method Blank

- The following table lists method blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations less than five times (5x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

Sample ID	Compound	Conc. mg/L	Qualifier	Affected Samples
WG1429795-1	DOC	0.08	None	For Wet Chemistry

Field Blank

- Field QC samples were not analyzed.

Laboratory Control Samples

- The LCS sample exhibited acceptable percent recoveries (%R).

Matrix Spike (MS) Recoveries

- The MS samples exhibited acceptable percent recoveries (%R).

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 6/18/21
Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Results Summary
Form 1
Volatile Organics by GC/MS

Client : ERM, Inc.
Project Name :
Lab ID : L2046870-01
Client ID : MW-18-10272020-01
Sample Location :
Sample Matrix : WATER
Analytical Method : 1,8260C
Lab File ID : V05201030A10
Sample Amount : 10 ml
Level : LOW
Extract Volume (MeOH) : N/A

Lab Number : L2046870
Project Number :
Date Collected : 10/27/20 16:25
Date Received : 10/27/20
Date Analyzed : 10/30/20 10:42
Dilution Factor : 1
Analyst : PD
Instrument ID : VOA105
GC Column : RTX-502.2
%Solids : N/A
Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	24	2.5	0.70	
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	28	2.5	0.70	
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	0.61	1.0	0.07	J J
75-00-3	Chloroethane	2.6	2.5	0.70	
75-35-4	1,1-Dichloroethene	3.2	0.50	0.17	



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Results Summary Form 1 Volatile Organics by GC/MS

Client : ERM, Inc.
 Project Name :
 Lab ID : L2046870-01
 Client ID : MW-18-10272020-01
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05201030A10
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2046870
 Project Number :
 Date Collected : 10/27/20 16:25
 Date Received : 10/27/20
 Date Analyzed : 10/30/20 10:42
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	2.4	0.50	0.18	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	3.1	2.5	0.70	
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

U/S



MT 11/15/21

1

Results Summary Form 1 Volatile Organics by GC/MS

Client	: ERM, Inc.	Lab Number	: L2046870
Project Name	:	Project Number	:
Lab ID	: L2046870-01	Date Collected	: 10/27/20 16:25
Client ID	: MW-18-10272020-01	Date Received	: 10/27/20
Sample Location	:	Date Analyzed	: 10/30/20 10:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V05201030A10	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

MT W/SL/1



2

Results Summary Form 1 Volatile Organics by GC/MS

Client : ERM, Inc.
 Project Name :
 Lab ID : L2046870-02
 Client ID : TRIP BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05201030A09
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2046870
 Project Number :
 Date Collected : 10/27/20 00:00
 Date Received : 10/27/20
 Date Analyzed : 10/30/20 10:19
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	✓ US
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

MT W/S/n



2

Results Summary Form 1 Volatile Organics by GC/MS

Client : ERM, Inc.
 Project Name :
 Lab ID : L2046870-02
 Client ID : TRIP BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05201030A09
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2046870
 Project Number :
 Date Collected : 10/27/20 00:00
 Date Received : 10/27/20
 Date Analyzed : 10/30/20 10:19
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

U/S

MT G/S/M



2

Results Summary Form 1 Volatile Organics by GC/MS

Client	: ERM, Inc.	Lab Number	: L2046870
Project Name	:	Project Number	:
Lab ID	: L2046870-02	Date Collected	: 10/27/20 00:00
Client ID	: TRIP BLANK	Date Received	: 10/27/20
Sample Location	:	Date Analyzed	: 10/30/20 10:19
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V05201030A09	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

MT W/S/21



**Results Summary
Form 1
Dissolved Gases by GC**

Client : ERM, Inc.
 Project Name :
 Lab ID : L2046870-01
 Client ID : MW-18-10272020-01
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 117,-
 Lab File ID : R0934305
 Sample Amount : 0.5 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2046870
 Project Number :
 Date Collected : 10/27/20 16:25
 Date Received : 10/27/20
 Date Analyzed : 11/02/20 15:25
 Dilution Factor : 1
 Analyst : AW
 Instrument ID : AIRLAB9
 GC Column :
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
74-82-8	Methane	284	2.00	2.00	
74-85-1	Ethene	ND	0.500	0.500	U
74-84-0	Ethane	ND	0.500	0.500	U

MT 11/15/21



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Form 1 WETCHEM

Client : ERM, Inc.
Project Name :
Lab ID : L2046870-01
Client ID : MW-18-10272020-01
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,2540C
Lab File ID : WG1429141.csv
Sample Amount :
Digestion Method :

Lab Number : L2046870
Project Number :
Date Collected : 10/27/20 16:25
Date Received : 10/27/20
Date Analyzed : 11/02/20 08:05
Dilution Factor : 1
Analyst : DW
Instrument ID :
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	1000	10	3.1	

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Form 1 WETCHEM

Client : ERM, Inc.	Lab Number : L2046870
Project Name :	Project Number :
Lab ID : L2046870-01	Date Collected : 10/27/20 16:25
Client ID : MW-18-10272020-01	Date Received : 10/27/20
Sample Location :	Date Analyzed : 11/02/20 05:31
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,9060A	Analyst : DW
Lab File ID : wg1429795.csv	Instrument ID :
Sample Amount :	%Solids : N/A
Digestion Method :	Date Digested : 10/28/20

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Dissolved Organic Carbon	4.0	1.0	0.04	

MW 6/18/21



**DATA USABILITY SUMMARY REPORT
SONOCO, TONAWANDA, NEW YORK**

Client: Environmental Resources Management, Inc., Melville, New York
SDG: L2111441
Laboratory: Alpha Analytical, Westborough, Massachusetts
Site: Sonoco, Tonawanda, New York
Date: June 18, 2021

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1*	SP-04-20210308-01	L2111441-01	Air
2*	SP-03-20210308-01	L2111441-02	Air
3*	SP-507-20210308-01	L2111441-03	Air
4	AA-SW-20210309-01	L2111441-04	Air
5*	SSV-VAC-09-20210309-01	L2111441-05	Air
6	IA-VAC-09-20210309-01	L2111441-06	Air
7	DUP-01-20210309-01	L2111441-07	Air

* - TO-15 only

A Data Usability Summary Review was performed on the analytical data for seven air samples collected on March 8-9, 2021 by Environmental Resources Management at the Sonoco site in Tonawanda, New York. The samples were analyzed under "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition January 1999, EPA/625/R-96/010B", Compendium Method TO-15, "Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)".

Specific method references are as follows:

Analysis

VOCs
VOCs

Method References

USEPA Method TO-15
USEPA Method TO-15 SIM

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," January 2017;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Chains-of-Custody and Traffic Reports
- Holding Times and sample preservation
- GC/MS Tuning
- Initial and Continuing Calibration Summaries
- Method Blank Contamination
- Laboratory Control Sample (LCS) recoveries
- Internal Standard (IS) Area Performance
- Compound Quantitation
- Field Duplicate Sample Precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes. There were no qualifications.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Chains-of-Custody and Traffic Reports

- All criteria were met.

Holding Times

- All samples were analyzed within 30 days for air samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD, and/or correlation coefficient, and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable %D and RRF values.

Method Blank

- The method blanks were free of contamination.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- EDS Samples 3 and 5 were analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	TO-15		RPD	Qualifier
	IA-VAC-09-20210309-01 ug/m3	DUP-01-20210309-01 ug/m3		
Dichlorodifluoromethane	2.66	2.66	0%	None
Chloromethane	1.29	1.28	1%	
Acetone	5.08	4.35	15%	
Trichlorofluoromethane	1.40	1.37	2%	
2-Butanone	1.47U	2.66	NC	
Benzene	0.655	0.542	19%	
Toluene	1.10	0.754U	NC	

TO-15 SIM				
Compound	IA-VAC-09-20210309-01 ug/m3	DUP-01-20210309-01 ug/m3	RPD	Qualifier
1,1,1-Trichloroethane	0.627	0.551	13%	None
Carbon Tetrachloride	0.459	0.478	4%	
Trichloroethene	0.113	0.107	5%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver
 Nancy Weaver
 Senior Chemist

Dated: 6/19/21

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Results Summary Form 1 Volatile Organics in Air

Client : ERM, Inc.	Lab Number : L2111441
Project Name : SONOCO	Project Number : 0560651
Lab ID : L2111441-01	Date Collected : 03/08/21 09:14
Client ID : SP-04-20210308-01	Date Received : 03/09/21
Sample Location : TONAWANDA, NY	Date Analyzed : 03/16/21 02:46
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : TS
Lab File ID : R314581	Instrument ID : AIRPIANO3
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.351	0.200	--	1.74	0.989	--	
74-87-3	Chloromethane	0.243	0.200	--	0.502	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U

mw 6/18/21



1

Results Summary Form 1 Volatile Organics in Air

Client : ERM, Inc.	Lab Number : L2111441
Project Name : SONOCO	Project Number : 0560651
Lab ID : L2111441-01	Date Collected : 03/08/21 09:14
Client ID : SP-04-20210308-01	Date Received : 03/09/21
Sample Location : TONAWANDA, NY	Date Analyzed : 03/16/21 02:46
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : TS
Lab File ID : R314581	Instrument ID : AIRPIANO3
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U

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Results Summary Form 1 Volatile Organics in Air

Client : ERM, Inc.	Lab Number : L2111441
Project Name : SONOCO	Project Number : 0560651
Lab ID : L2111441-01	Date Collected : 03/08/21 09:14
Client ID : SP-04-20210308-01	Date Received : 03/09/21
Sample Location : TONAWANDA, NY	Date Analyzed : 03/16/21 02:46
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : TS
Lab File ID : R314581	Instrument ID : AIRPIANO3
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

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Results Summary Form 1 Volatile Organics in Air

Client	: ERM, Inc.	Lab Number	: L2111441
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2111441-02	Date Collected	: 03/08/21 09:16
Client ID	: SP-03-20210308-01	Date Received	: 03/09/21
Sample Location	: TONAWANDA, NY	Date Analyzed	: 03/16/21 03:25
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R314582	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.375	0.200	--	1.85	0.989	--	
74-87-3	Chloromethane	0.377	0.200	--	0.779	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	1.30	1.00	--	3.09	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	0.560	0.500	--	1.65	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U

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Results Summary Form 1 Volatile Organics in Air

Client	: ERM, Inc.	Lab Number	: L2111441
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2111441-02	Date Collected	: 03/08/21 09:16
Client ID	: SP-03-20210308-01	Date Received	: 03/09/21
Sample Location	: TONAWANDA, NY	Date Analyzed	: 03/16/21 03:25
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R314582	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	0.309	0.200	--	1.69	1.09	--	
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.295	0.200	--	1.11	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U

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Results Summary Form 1 Volatile Organics in Air

Client	: ERM, Inc.	Lab Number	: L2111441
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2111441-02	Date Collected	: 03/08/21 09:16
Client ID	: SP-03-20210308-01	Date Received	: 03/09/21
Sample Location	: TONAWANDA, NY	Date Analyzed	: 03/16/21 03:25
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R314582	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

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Results Summary Form 1 Volatile Organics in Air

Client : ERM, Inc.	Lab Number : L2111441
Project Name : SONOCO	Project Number : 0560651
Lab ID : L2111441-03D	Date Collected : 03/08/21 09:08
Client ID : SP-507-20210308-01	Date Received : 03/09/21
Sample Location : TONAWANDA, NY	Date Analyzed : 03/16/21 04:00
Sample Matrix : SOIL_VAPOR	Dilution Factor : 6.25
Analytical Method : 48,TO-15	Analyst : TS
Lab File ID : R314583	Instrument ID : AIRPIANO3
Sample Amount : 40.0 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	ND	1.25	--	ND	6.18	--	U
74-87-3	Chloromethane	ND	1.25	--	ND	2.58	--	U
76-14-2	Freon-114	ND	1.25	--	ND	8.74	--	U
75-01-4	Vinyl chloride	ND	1.25	--	ND	3.20	--	U
106-99-0	1,3-Butadiene	ND	1.25	--	ND	2.77	--	U
74-83-9	Bromomethane	ND	1.25	--	ND	4.85	--	U
75-00-3	Chloroethane	ND	1.25	--	ND	3.30	--	U
64-17-5	Ethanol	ND	31.2	--	ND	58.8	--	U
593-60-2	Vinyl bromide	ND	1.25	--	ND	5.47	--	U
67-64-1	Acetone	ND	6.25	--	ND	14.8	--	U
75-69-4	Trichlorofluoromethane	ND	1.25	--	ND	7.02	--	U
67-63-0	Isopropanol	ND	3.12	--	ND	7.67	--	U
75-35-4	1,1-Dichloroethene	60.6	1.25	--	240	4.96	--	
75-65-0	Tertiary butyl Alcohol	ND	3.12	--	ND	9.46	--	U
75-09-2	Methylene chloride	ND	3.12	--	ND	10.8	--	U
107-05-1	3-Chloropropene	ND	1.25	--	ND	3.91	--	U
75-15-0	Carbon disulfide	ND	1.25	--	ND	3.89	--	U
76-13-1	Freon-113	ND	1.25	--	ND	9.58	--	U
156-60-5	trans-1,2-Dichloroethene	ND	1.25	--	ND	4.96	--	U
75-34-3	1,1-Dichloroethane	15.0	1.25	--	60.7	5.06	--	
1634-04-4	Methyl tert butyl ether	ND	1.25	--	ND	4.51	--	U
78-93-3	2-Butanone	ND	3.12	--	ND	9.20	--	U
156-59-2	cis-1,2-Dichloroethene	38.4	1.25	--	152	4.96	--	
141-78-6	Ethyl Acetate	ND	3.12	--	ND	11.2	--	U
67-66-3	Chloroform	ND	1.25	--	ND	6.10	--	U
109-99-9	Tetrahydrofuran	ND	3.12	--	ND	9.20	--	U

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Results Summary Form 1 Volatile Organics in Air

Client : ERM, Inc.	Lab Number : L2111441
Project Name : SONOCO	Project Number : 0560651
Lab ID : L2111441-03D	Date Collected : 03/08/21 09:08
Client ID : SP-507-20210308-01	Date Received : 03/09/21
Sample Location : TONAWANDA, NY	Date Analyzed : 03/16/21 04:00
Sample Matrix : SOIL_VAPOR	Dilution Factor : 6.25
Analytical Method : 48,TO-15	Analyst : TS
Lab File ID : R314583	Instrument ID : AIRPIANO3
Sample Amount : 40.0 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	1.25	--	ND	5.06	--	U
110-54-3	n-Hexane	ND	1.25	--	ND	4.41	--	U
71-55-6	1,1,1-Trichloroethane	480	1.25	--	2620	6.82	--	
71-43-2	Benzene	ND	1.25	--	ND	3.99	--	U
56-23-5	Carbon tetrachloride	ND	1.25	--	ND	7.86	--	U
110-82-7	Cyclohexane	ND	1.25	--	ND	4.30	--	U
78-87-5	1,2-Dichloropropane	ND	1.25	--	ND	5.78	--	U
75-27-4	Bromodichloromethane	ND	1.25	--	ND	8.37	--	U
123-91-1	1,4-Dioxane	2.66	1.25	--	9.59	4.50	--	
79-01-6	Trichloroethene	265	1.25	--	1420	6.72	--	
540-84-1	2,2,4-Trimethylpentane	ND	1.25	--	ND	5.84	--	U
142-82-5	Heptane	ND	1.25	--	ND	5.12	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.25	--	ND	5.67	--	U
108-10-1	4-Methyl-2-pentanone	ND	3.12	--	ND	12.8	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.25	--	ND	5.67	--	U
79-00-5	1,1,2-Trichloroethane	ND	1.25	--	ND	6.82	--	U
108-88-3	Toluene	ND	1.25	--	ND	4.71	--	U
591-78-6	2-Hexanone	ND	1.25	--	ND	5.12	--	U
124-48-1	Dibromochloromethane	ND	1.25	--	ND	10.6	--	U
106-93-4	1,2-Dibromoethane	ND	1.25	--	ND	9.61	--	U
127-18-4	Tetrachloroethene	ND	1.25	--	ND	8.48	--	U
108-90-7	Chlorobenzene	ND	1.25	--	ND	5.76	--	U
100-41-4	Ethylbenzene	ND	1.25	--	ND	5.43	--	U
179601-23-1	p/m-Xylene	ND	2.50	--	ND	10.9	--	U
75-25-2	Bromofom	ND	1.25	--	ND	12.9	--	U
100-42-5	Styrene	ND	1.25	--	ND	5.32	--	U

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Results Summary Form 1 Volatile Organics in Air

Client	: ERM, Inc.	Lab Number	: L2111441
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2111441-03D	Date Collected	: 03/08/21 09:08
Client ID	: SP-507-20210308-01	Date Received	: 03/09/21
Sample Location	: TONAWANDA, NY	Date Analyzed	: 03/16/21 04:00
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 6.25
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R314583	Instrument ID	: AIRPIANO3
Sample Amount	: 40.0 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.25	--	ND	8.58	--	U
95-47-6	o-Xylene	ND	1.25	--	ND	5.43	--	U
622-96-8	4-Ethyltoluene	ND	1.25	--	ND	6.15	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.25	--	ND	6.15	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.25	--	ND	6.15	--	U
100-44-7	Benzyl chloride	ND	1.25	--	ND	6.47	--	U
541-73-1	1,3-Dichlorobenzene	ND	1.25	--	ND	7.52	--	U
106-46-7	1,4-Dichlorobenzene	ND	1.25	--	ND	7.52	--	U
95-50-1	1,2-Dichlorobenzene	ND	1.25	--	ND	7.52	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.25	--	ND	9.28	--	U
87-68-3	Hexachlorobutadiene	ND	1.25	--	ND	13.3	--	U

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**Results Summary
Form 1
Volatile Organics in Air**

Client	: ERM, Inc.	Lab Number	: L2111441
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2111441-04	Date Collected	: 03/09/21 08:24
Client ID	: AA-SW-20210309-01	Date Received	: 03/09/21
Sample Location	: TONAWANDA, NY	Date Analyzed	: 03/15/21 17:46
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R314567	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.548	0.200	--	2.71	0.989	--	
74-87-3	Chloromethane	0.646	0.200	--	1.33	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	7.24	5.00	--	13.6	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	1.87	1.00	--	4.44	2.38	--	
75-69-4	Trichlorofluoromethane	0.249	0.200	--	1.40	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U

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Results Summary Form 1 Volatile Organics in Air

Client : ERM, Inc.	Lab Number : L2111441
Project Name : SONOCO	Project Number : 0560651
Lab ID : L2111441-04	Date Collected : 03/09/21 08:24
Client ID : AA-SW-20210309-01	Date Received : 03/09/21
Sample Location : TONAWANDA, NY	Date Analyzed : 03/15/21 17:46
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : TS
Lab File ID : R314567	Instrument ID : AIRPIANO3
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.201	0.200	--	0.757	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

new 6/18/21



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Results Summary Form 1 Volatile Organics in Air

Client	: ERM, Inc.	Lab Number	: L2111441
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2111441-04	Date Collected	: 03/09/21 08:24
Client ID	: AA-SW-20210309-01	Date Received	: 03/09/21
Sample Location	: TONAWANDA, NY	Date Analyzed	: 03/15/21 17:46
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R314567	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

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**Results Summary
Form 1
Volatile Organics in Air**

Client	: ERM, Inc.	Lab Number	: L2111441
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2111441-05D	Date Collected	: 03/09/21 09:01
Client ID	: SSV-VAC-09-20210309-01	Date Received	: 03/09/21
Sample Location	: TONAWANDA, NY	Date Analyzed	: 03/16/21 04:39
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 37.99
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R314584	Instrument ID	: AIRPIANO3
Sample Amount	: 6.58 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	ND	7.60	--	ND	37.6	--	U
74-87-3	Chloromethane	ND	7.60	--	ND	15.7	--	U
76-14-2	Freon-114	ND	7.60	--	ND	53.1	--	U
75-01-4	Vinyl chloride	ND	7.60	--	ND	19.4	--	U
106-99-0	1,3-Butadiene	ND	7.60	--	ND	16.8	--	U
74-83-9	Bromomethane	ND	7.60	--	ND	29.5	--	U
75-00-3	Chloroethane	ND	7.60	--	ND	20.1	--	U
64-17-5	Ethanol	ND	190	--	ND	358	--	U
593-60-2	Vinyl bromide	ND	7.60	--	ND	33.2	--	U
67-64-1	Acetone	ND	38.0	--	ND	90.3	--	U
75-69-4	Trichlorofluoromethane	ND	7.60	--	ND	42.7	--	U
67-63-0	Isopropanol	ND	19.0	--	ND	46.7	--	U
75-35-4	1,1-Dichloroethene	387	7.60	--	1530	30.1	--	
75-65-0	Tertiary butyl Alcohol	ND	19.0	--	ND	57.6	--	U
75-09-2	Methylene chloride	ND	19.0	--	ND	66.0	--	U
107-05-1	3-Chloropropene	ND	7.60	--	ND	23.8	--	U
75-15-0	Carbon disulfide	ND	7.60	--	ND	23.7	--	U
76-13-1	Freon-113	ND	7.60	--	ND	58.3	--	U
156-60-5	trans-1,2-Dichloroethene	ND	7.60	--	ND	30.1	--	U
75-34-3	1,1-Dichloroethane	448	7.60	--	1810	30.8	--	
1634-04-4	Methyl tert butyl ether	ND	7.60	--	ND	27.4	--	U
78-93-3	2-Butanone	ND	19.0	--	ND	56.0	--	U
156-59-2	cis-1,2-Dichloroethene	ND	7.60	--	ND	30.1	--	U
141-78-6	Ethyl Acetate	ND	19.0	--	ND	68.5	--	U
67-66-3	Chloroform	ND	7.60	--	ND	37.1	--	U
109-99-9	Tetrahydrofuran	ND	19.0	--	ND	56.0	--	U

new 6/18/21



Results Summary Form 1 Volatile Organics in Air

Client : ERM, Inc.	Lab Number : L2111441
Project Name : SONOCO	Project Number : 0560651
Lab ID : L2111441-05D	Date Collected : 03/09/21 09:01
Client ID : SSV-VAC-09-20210309-01	Date Received : 03/09/21
Sample Location : TONAWANDA, NY	Date Analyzed : 03/16/21 04:39
Sample Matrix : SOIL_VAPOR	Dilution Factor : 37.99
Analytical Method : 48,TO-15	Analyst : TS
Lab File ID : R314584	Instrument ID : AIRPIANO3
Sample Amount : 6.58 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	7.60	--	ND	30.8	--	U
110-54-3	n-Hexane	10.8	7.60	--	38.1	26.8	--	
71-55-6	1,1,1-Trichloroethane	3010	7.60	--	16400	41.5	--	
71-43-2	Benzene	ND	7.60	--	ND	24.3	--	U
56-23-5	Carbon tetrachloride	ND	7.60	--	ND	47.8	--	U
110-82-7	Cyclohexane	11.2	7.60	--	38.6	26.2	--	
78-87-5	1,2-Dichloropropane	ND	7.60	--	ND	35.1	--	U
75-27-4	Bromodichloromethane	ND	7.60	--	ND	50.9	--	U
123-91-1	1,4-Dioxane	ND	7.60	--	ND	27.4	--	U
79-01-6	Trichloroethene	2350	7.60	--	12600	40.8	--	
540-84-1	2,2,4-Trimethylpentane	ND	7.60	--	ND	35.5	--	U
142-82-5	Heptane	24.9	7.60	--	102	31.1	--	
10061-01-5	cis-1,3-Dichloropropene	ND	7.60	--	ND	34.5	--	U
108-10-1	4-Methyl-2-pentanone	ND	19.0	--	ND	77.9	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	7.60	--	ND	34.5	--	U
79-00-5	1,1,2-Trichloroethane	ND	7.60	--	ND	41.5	--	U
108-88-3	Toluene	20.7	7.60	--	78.0	28.6	--	
591-78-6	2-Hexanone	ND	7.60	--	ND	31.1	--	U
124-48-1	Dibromochloromethane	ND	7.60	--	ND	64.7	--	U
106-93-4	1,2-Dibromoethane	ND	7.60	--	ND	58.4	--	U
127-18-4	Tetrachloroethene	ND	7.60	--	ND	51.5	--	U
108-90-7	Chlorobenzene	ND	7.60	--	ND	35.0	--	U
100-41-4	Ethylbenzene	ND	7.60	--	ND	33.0	--	U
179601-23-1	p/m-Xylene	ND	15.2	--	ND	66.0	--	U
75-25-2	Bromoform	ND	7.60	--	ND	78.6	--	U
100-42-5	Styrene	ND	7.60	--	ND	32.4	--	U

nw 6/18/21



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Results Summary Form 1 Volatile Organics in Air

Client	: ERM, Inc.	Lab Number	: L2111441
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2111441-05D	Date Collected	: 03/09/21 09:01
Client ID	: SSV-VAC-09-20210309-01	Date Received	: 03/09/21
Sample Location	: TONAWANDA, NY	Date Analyzed	: 03/16/21 04:39
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 37.99
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R314584	Instrument ID	: AIRPIANO3
Sample Amount	: 6.58 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.60	--	ND	52.2	--	U
95-47-6	o-Xylene	ND	7.60	--	ND	33.0	--	U
622-96-8	4-Ethyltoluene	ND	7.60	--	ND	37.4	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	7.60	--	ND	37.4	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	7.60	--	ND	37.4	--	U
100-44-7	Benzyl chloride	ND	7.60	--	ND	39.4	--	U
541-73-1	1,3-Dichlorobenzene	ND	7.60	--	ND	45.7	--	U
106-46-7	1,4-Dichlorobenzene	ND	7.60	--	ND	45.7	--	U
95-50-1	1,2-Dichlorobenzene	ND	7.60	--	ND	45.7	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	7.60	--	ND	56.4	--	U
87-68-3	Hexachlorobutadiene	ND	7.60	--	ND	81.1	--	U

new 6/18/21



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Results Summary Form 1 Volatile Organics in Air

Client : ERM, Inc.	Lab Number : L2111441
Project Name : SONOCO	Project Number : 0560651
Lab ID : L2111441-06	Date Collected : 03/09/21 09:03
Client ID : IA-VAC-09-20210309-01	Date Received : 03/09/21
Sample Location : TONAWANDA, NY	Date Analyzed : 03/15/21 18:26
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : TS
Lab File ID : R314568	Instrument ID : AIRPIANO3
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.537	0.200	--	2.66	0.989	--	
74-87-3	Chloromethane	0.623	0.200	--	1.29	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.14	1.00	--	5.08	2.38	--	
75-69-4	Trichlorofluoromethane	0.250	0.200	--	1.40	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.205	0.200	--	0.655	0.639	--	

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Results Summary Form 1 Volatile Organics in Air

Client	: ERM, Inc.	Lab Number	: L2111441
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2111441-06	Date Collected	: 03/09/21 09:03
Client ID	: IA-VAC-09-20210309-01	Date Received	: 03/09/21
Sample Location	: TONAWANDA, NY	Date Analyzed	: 03/15/21 18:26
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R314568	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.291	0.200	--	1.10	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromofom	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

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Results Summary Form 1 Volatile Organics in Air

Client	: ERM, Inc.	Lab Number	: L2111441
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2111441-06	Date Collected	: 03/09/21 09:03
Client ID	: IA-VAC-09-20210309-01	Date Received	: 03/09/21
Sample Location	: TONAWANDA, NY	Date Analyzed	: 03/15/21 18:26
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R314568	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

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Results Summary Form 1 Volatile Organics in Air

Client : ERM, Inc.	Lab Number : L2111441
Project Name : SONOCO	Project Number : 0560651
Lab ID : L2111441-07	Date Collected : 03/09/21 09:03
Client ID : DUP-01-20210309-01	Date Received : 03/09/21
Sample Location : TONAWANDA, NY	Date Analyzed : 03/15/21 19:44
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : TS
Lab File ID : R314570	Instrument ID : AIRPIANO3
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.538	0.200	--	2.66	0.989	--	
74-87-3	Chloromethane	0.618	0.200	--	1.28	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	1.83	1.00	--	4.35	2.38	--	
75-69-4	Trichlorofluoromethane	0.243	0.200	--	1.37	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	0.902	0.500	--	2.66	1.47	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.201	0.200	--	0.642	0.639	--	

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**Results Summary
Form 1
Volatile Organics in Air**

Client : ERM, Inc.	Lab Number : L2111441
Project Name : SONOCO	Project Number : 0560651
Lab ID : L2111441-07	Date Collected : 03/09/21 09:03
Client ID : DUP-01-20210309-01	Date Received : 03/09/21
Sample Location : TONAWANDA, NY	Date Analyzed : 03/15/21 19:44
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : TS
Lab File ID : R314570	Instrument ID : AIRPIANO3
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

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7

Results Summary Form 1 Volatile Organics in Air

Client	: ERM, Inc.	Lab Number	: L2111441
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2111441-07	Date Collected	: 03/09/21 09:03
Client ID	: DUP-01-20210309-01	Date Received	: 03/09/21
Sample Location	: TONAWANDA, NY	Date Analyzed	: 03/15/21 19:44
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R314570	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

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Results Summary Form 1 Volatile Organics in Air by SIM

Client	: ERM, Inc.	Lab Number	: L2111441
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2111441-04	Date Collected	: 03/09/21 08:24
Client ID	: AA-SW-20210309-01	Date Received	: 03/09/21
Sample Location	: TONAWANDA, NY	Date Analyzed	: 03/15/21 17:46
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TS
Lab File ID	: R314567_EV2	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.073	0.020	--	0.459	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

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6

Results Summary Form 1 Volatile Organics in Air by SIM

Client	: ERM, Inc.	Lab Number	: L2111441
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2111441-06	Date Collected	: 03/09/21 09:03
Client ID	: IA-VAC-09-20210309-01	Date Received	: 03/09/21
Sample Location	: TONAWANDA, NY	Date Analyzed	: 03/15/21 18:26
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TS
Lab File ID	: R314568_EV2	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	0.115	0.020	--	0.627	0.109	--	
56-23-5	Carbon tetrachloride	0.073	0.020	--	0.459	0.126	--	
79-01-6	Trichloroethene	0.021	0.020	--	0.113	0.107	--	
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

ms 6/18/21



7

Results Summary Form 1 Volatile Organics in Air by SIM

Client	: ERM, Inc.	Lab Number	: L2111441
Project Name	: SONOCO	Project Number	: 0560651
Lab ID	: L2111441-07	Date Collected	: 03/09/21 09:03
Client ID	: DUP-01-20210309-01	Date Received	: 03/09/21
Sample Location	: TONAWANDA, NY	Date Analyzed	: 03/15/21 19:44
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TS
Lab File ID	: R314570_EV2	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	0.101	0.020	--	0.551	0.109	--	
56-23-5	Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--	
79-01-6	Trichloroethene	0.020	0.020	--	0.107	0.107	--	
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

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APPENDIX F DAR-1 ANALYSIS

Section II - Basic Cavity Impact Analysis

Use this method only if the shortest distance from the building to the property line is less than 3 times the building height (h_b). Cavity impacts would then occur to offsite receptors.

Emission Point SP-03
 h_b - building height (ft) 33.29167 If the physical stack height is greater than 1.5 h_b , no annual or short term cavity impacts occur from this source.

Contaminant	CAS Number	Q (lb/hr)	Q _a (lb/yr)	C _c (µg/m ³)	C _{st} (µg/m ³)	AGC (µg/m ³)	SGC (µg/m ³)
Acetone	67-64-1	1.24E-06	1.08E-02	1.68E-05	1.01E-03	30,000	180,000
1,1,1-Trichloroethane	71-55-6	6.77E-07	5.93E-03	9.20E-06	5.52E-04	5000	9000
Dichlorodifluoromethane	75-71-8	7.41E-07	6.49E-03	1.01E-05	6.04E-04	12,000	None
Toluene	108-88-3	4.44E-07	3.89E-03	6.04E-06	3.62E-04	5,000	37,000
2-Butanone	78-93-3	6.61E-07	5.79E-03	8.98E-06	5.39E-04	5,000	37,000
Chloromethane	74-87-3	3.12E-07	2.73E-03	4.24E-06	2.54E-04	90	22,000

Note: Input values only into gray cells.

Equations Used For Airguide-1 Calculations

Annual Cavity Impact

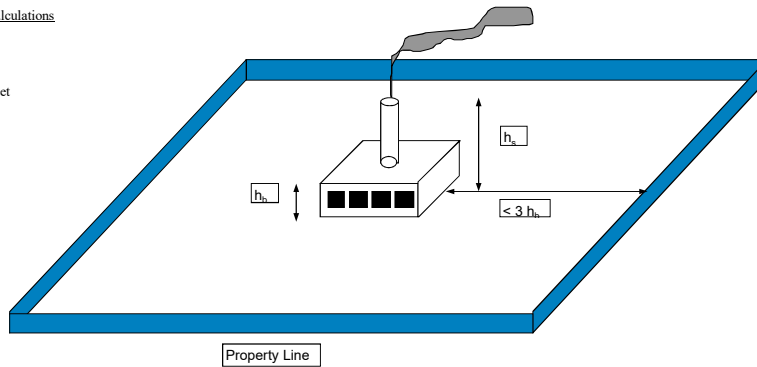
$$C_c (\mu\text{g}/\text{m}^3) = (1.72 * Q_a) / (h_b^2)$$

where Q_a is in lbs/yr and h_b is in feet

Short Term Cavity Impact

$$C_{st} (\mu\text{g}/\text{m}^3) = (904000 * Q) / (h_b^2)$$

where Q is lbs/hr and h_b is in feet



	ug/m3	ug/m3 to ug/r3	ug/r3 to lbs/r3	fpm	cfm	lb/min	min/hr	lb/hr
		0.0283127	2.20E-09	1226	107.0		60	
Acetone	3.09	0.0874862	1.927E-10			2.062E-08		1.237E-06
1,1,1-Trichloroethane	1.69	0.0478485	1.054E-10			1.128E-08		6.766E-07
Dichlorodifluoromethane	1.85	0.0523785	1.154E-10			1.234E-08		7.406E-07
Toluene	1.11	0.0314271	6.922E-11			7.406E-09		4.444E-07
2-Butanone	1.65	0.046716	1.029E-10			1.101E-08		6.605E-07
Chloromethane	0.779	0.0220556	4.858E-11			5.198E-09		3.119E-07

Section III - Point Source Method - Conservative Approach

Use this method only if the stack height to building height ratio is less than 1.5 (no credit given for plume rise due to buoyancy or momentum).

Emission Point SP-03
 h_c - stack height (ft) 40

Contaminant	CAS Number	Q (lb/hr)	Q _a (lb/yr)	C _a (µg/m ³)	C _p (µg/m ³)	C _{st} (µg/m ³)	AGC (µg/m ³)	SGC (µg/m ³)
Acetone	67-64-1	1.24E-06	1.08E-02	1.62E-05	1.61E-05	1.05E-03	30,000	180,000
1,1,1-Trichloroethane	71-55-6	6.77E-07	5.93E-03	8.84E-06	8.83E-06	5.74E-04	5,000.000	9,000
Dichlorodifluoromethane	75-71-8	7.41E-07	6.49E-03	9.67E-06	9.66E-06	6.28E-04	12,000	None
Toluene	108-88-3	4.44E-07	3.89E-03	5.80E-06	5.80E-06	3.77E-04	5,000	37,000
2-Butanone	78-93-3	6.61E-07	5.79E-03	8.63E-06	8.62E-06	5.60E-04	5,000	37,000
Chloromethane	74-87-3	3.12E-07	2.73E-03	4.07E-06	4.07E-06	2.64E-04	90	22,000

Note: Input values only into gray cells.

Equations Used For Airguide-1 Calculations

Maximum Actual Annual Impact

$$C_a (\mu\text{g}/\text{m}^3) = (6.0 * Q_a) / (h_c^{2.25})$$

where Q_a is in lbs/yr and h_c is in feet

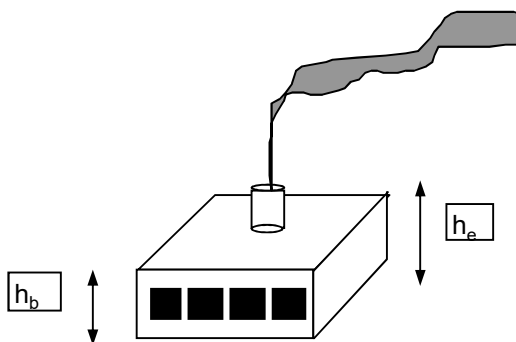
Maximum Potential Annual Impact

$$C_p (\mu\text{g}/\text{m}^3) = (52500 * Q) / (h_c^{2.25})$$

where Q is lbs/hr and h_c is in feet

Maximum Short Term Impact

$$C_{st} (\mu\text{g}/\text{m}^3) = C_p * 65$$



Section II - Basic Cavity Impact Analysis

Use this method only if the shortest distance from the building to the property line is less than 3 times the building height (h_b). Cavity impacts would then occur to offsite receptors.

Emission Point SP-04
 h_b - building height (ft) 33.29167 If the physical stack height is greater than 1.5 h_b , no annual or short term cavity impacts occur from this source.

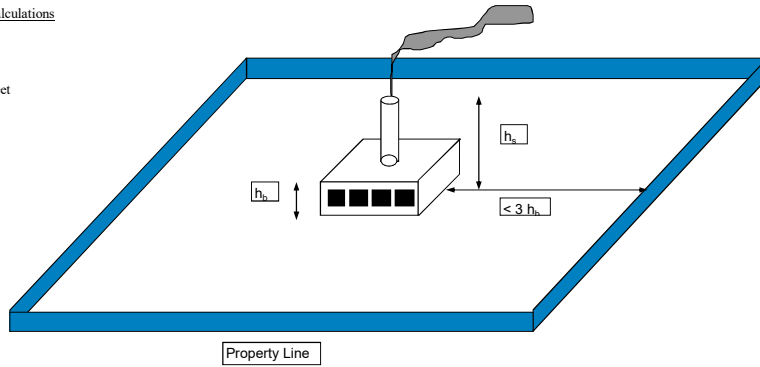
Contaminant	CAS Number	Q (lb/hr)	Q _a (lb/yr)	C _c (µg/m ³)	C _{st} (µg/m ³)	AGC (µg/m ³)	SGC (µg/m ³)
Dichlorodifluoromethane	75-71-8	1.49E-07	1.30E-03	2.02E-06	1.21E-04	12.000	None
Chloromethane	74-87-3	4.29E-08	3.76E-04	5.84E-07	3.50E-05	90	22000

Note: Input values only into gray cells.

Equations Used For Airguide-1 Calculations

Annual Cavity Impact
 $C_c (\mu\text{g}/\text{m}^3) = (1.72 * Q_a) / (h_b^2)$
 where Q_a is in lbs/yr and h_b is in feet

Short Term Cavity Impact
 $C_{st} (\mu\text{g}/\text{m}^3) = (904000 * Q) / (h_b^2)$
 where Q is lbs/hr and h_b is in feet



	ug/m3	ug/m3 to ug/ft3	ug/ft3 to lbs/ft3	fpm	cfm	lb/min	min/hr	lb/hr
		0.0283127	2.20E-09	262	22.863794		60	
Dichlorodifluoromethane	1.74	0.0492641	1.085E-10			2.481E-09		1.489E-07
Chloromethane	0.502	0.014213	3.131E-11			7.158E-10		4.295E-08

Section III - Point Source Method - Conservative Approach

Use this method only if the stack height to building height ratio is less than 1.5 (no credit given for plume rise due to buoyancy or momentum).

Emission Point SP-04
 h_e - stack height (ft) 40

Contaminant	CAS Number	Q (lb/hr)	Q _a (lb/yr)	C _a (μg/m ³)	C _p (μg/m ³)	C _{st} (μg/m ³)	AGC (μg/m ³)	SGC (μg/m ³)
Dichlorodifluoromethane	75-71-8	1.49E-07	1.30E-03	1.94E-06	1.94E-06	1.26E-04	12,000	None
Chloromethane	74-87-3	4.29E-08	3.76E-04	5.61E-07	5.60E-07	3.64E-05	90	22000

Note: Input values only into gray cells.

Equations Used For Airguide-1 Calculations

Maximum Actual Annual Impact

$$C_a (\mu\text{g}/\text{m}^3) = (6.0 * Q_a) / (h_e^{2.25})$$

where Q_a is in lbs/yr and h_e is in feet

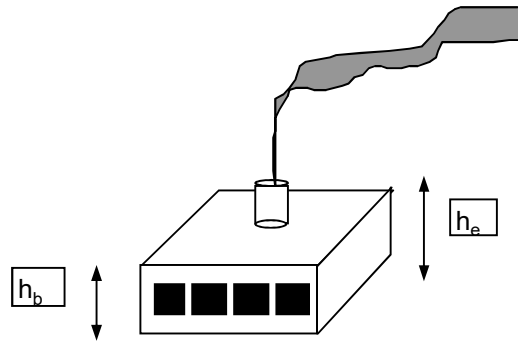
Maximum Potential Annual Impact

$$C_p (\mu\text{g}/\text{m}^3) = (52500 * Q) / (h_e^{2.25})$$

where Q is lbs/hr and h_e is in feet

Maximum Short Term Impact

$$C_{st} (\mu\text{g}/\text{m}^3) = C_p * 65$$



Section II - Basic Cavity Impact Analysis

Use this method only if the shortest distance from the building to the property line is less than 3 times the building height (h_b). Cavity impacts would then occur to offsite receptors.

Emission Point **SSDS Effluent**
 h_b - building height (ft) **33.29167** If the physical stack height is greater than 1.5 h_b , no annual or short term cavity impacts occur from this source.

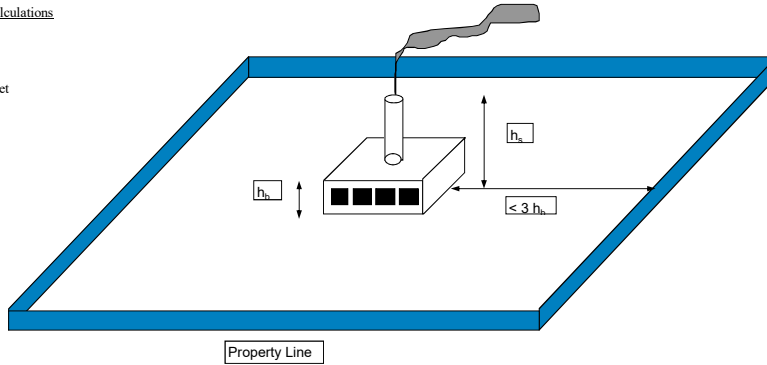
Contaminant	CAS Number	Q (lb/hr)	Q _a (lb/yr)	C _c (µg/m ³)	C _{st} (µg/m ³)	AGC (µg/m ³)	SGC (µg/m ³)
1,1,1 Trichloroethane	71-55-6	4.92E-03	4.31E+01	6.69E-02	4.01E+00	5,000	9,000
1,1 Dichloroethane	75-34-3	1.14E-04	9.98E-01	1.55E-03	9.30E-02	0.63	None
1,4-Dioxane	123-91-1	1.80E-05	1.58E-01	2.45E-04	1.47E-02	0.20	3,000
1,1-Dichloroethene	75-35-4	4.51E-04	3.95E+00	6.13E-03	3.68E-01	0.20	3,000
cis-1,2-Dichloroethene	156-59-2	2.85E-04	2.50E+00	3.88E-03	2.33E-01	0.20	3,000
Trichloroethene	79-01-6	2.67E-03	2.34E+01	3.62E-02	2.17E+00	0.21	20

Note: Input values only into gray cells.

Equations Used For Airguide-1 Calculations

Annual Cavity Impact
 $C_c (\mu\text{g}/\text{m}^3) = (1.72 \cdot Q_a) / (h_b^2)$
 where Q_a is in lbs/yr and h_b is in feet

Short Term Cavity Impact
 $C_{st} (\mu\text{g}/\text{m}^3) = (904000 \cdot Q) / (h_b^2)$
 where Q is lbs/hr and h_b is in feet



	ug/m3	ug/m3 to ug/f3	ug/f3 to lbs/f3	cfm	lb/min	min/hr	lb/hr
		0.0283127	2.20E-09	501.76		60	
1,1,1 Trichloroethane	2620	74.179278	1.6339E-07		8.198E-05		0.004919
1,1 Dichloroethane	60.7	1.718581	3.79E-09		1.90E-06		0.0001
1,4-Dioxane	9.59	0.2715188	5.98059E-10		3.001E-07		1.8E-05
1,1-Dichloroethene	240	6.7950483	1.50E-08		7.51E-06		0.0004506
cis-1,2-Dichloroethene	152	4.3035306	9.48E-09		4.756E-06		0.0002854
Trichloroethene	1420	40.204036	8.86E-08		4.443E-05		0.002666

Section III - Point Source Method - Conservative Approach

Use this method only if the stack height to building height ratio is less than 1.5 (no credit given for plume rise due to buoyancy or momentum).

Emission Point SSDS Effluent
 h_e - stack height (ft) 40

Contaminant	CAS Number	Q (lb/hr)	Q _a (lb/yr)	C (μg/m ³)			AGC (μg/m ³)	SGC (μg/m ³)
				C _a	C _p	C _{st}		
1,1,1 Trichloroethane	71-55-6	4.92E-03	4.31E+01	6.43E-02	6.42E-02	4.17E+00	5,000	9,000
1,1 Dichloroethane	75-34-3	1.14E-04	9.98E-01	1.49E-03	1.49E-03	9.66E-02	0.63	None
1,4-Dioxane	123-91-1	1.80E-05	1.58E-01	2.35E-04	2.35E-04	1.53E-02	0.2	3,000
1,1-Dichloroethene	75-35-4	4.51E-04	3.95E+00	5.89E-03	5.88E-03	3.82E-01	0.2	3,000
cis-1,2-Dichloroethene	156-59-2	2.85E-04	2.50E+00	3.73E-03	3.72E-03	2.42E-01	0.2	3,000
Trichloroethene	79-01-6	2.67E-03	2.34E+01	3.48E-02	3.48E-02	2.26E+00	0.21	20

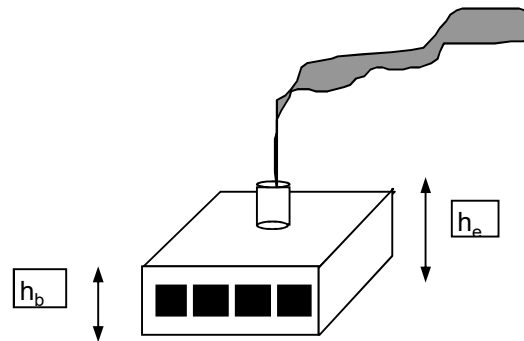
Note: Input values only into gray cells.

Equations Used For Airguide-1 Calculations

Maximum Actual Annual Impact
 $C_a (\mu\text{g}/\text{m}^3) = (6.0 * Q_a) / (h_e^{2.25})$
 where Q_a is in lbs/yr and h_e is in feet

Maximum Potential Annual Impact
 $C_p (\mu\text{g}/\text{m}^3) = (52500 * Q) / (h_e^{2.25})$
 where Q is lbs/hr and h_e is in feet

Maximum Short Term Impact
 $C_{st} (\mu\text{g}/\text{m}^3) = C_p * 65$



Section II - Basic Cavity Impact Analysis

Use this method only if the shortest distance from the building to the property line is less than 3 times the building height (h_b). Cavity impacts would then occur to offsite receptors.

Emission Point SP-03, 04, SSDS Eff
 h_b - building height (ft) Mixed

If the physical stack height is greater than $1.5 h_b$, no annual or short term cavity impacts occur from this source.

Contaminant	CAS Number	Q (lb/hr)	Q _a (lb/yr)	C _c (µg/m ³)	C _{st} (µg/m ³)	AGC (µg/m ³)	SGC (µg/m ³)
Acetone	67-64-1	1.24E-06	1.08E-02	1.68E-05	1.01E-03	30,000.00	180,000
1,1,1-Trichloroethane	71-55-6	4.92E-03	4.31E+01	6.69E-02	4.01E+00	5,000.0	9,000
Dichlorodifluoromethane	75-71-8	2.67E-03	2.34E+01	3.63E-02	2.18E+00	12,000	None
Toluene	108-88-3	4.44E-07	3.89E-03	6.04E-06	3.62E-04	5,000	37,000
2-Butanone	78-93-3	6.61E-07	5.79E-03	8.98E-06	5.39E-04	5,000	37,000
Chloromethane	74-87-3	3.55E-07	3.11E-03	4.82E-06	2.89E-04	90	22,000
1,1 Dichloroethane	75-34-3	1.14E-04	9.98E-01	1.55E-03	9.30E-02	0.63	None
1,4-Dioxane	123-91-1	1.80E-05	1.58E-01	2.45E-04	1.47E-02	0.20	3,000
1,1-Dichloroethene	75-35-4	4.51E-04	3.95E+00	6.13E-03	3.68E-01	0.20	3,000
cis-1,2-Dichloroethene	156-59-2	2.85E-04	2.50E+00	3.88E-03	2.33E-01	0.63	None
Trichloroethene	79-01-6	2.67E-03	2.34E+01	3.62E-02	2.17E+00	0.21	20

Note: Input values only into gray cells.

Equations Used For Airguide-1 Calculations

Annual Cavity Impact

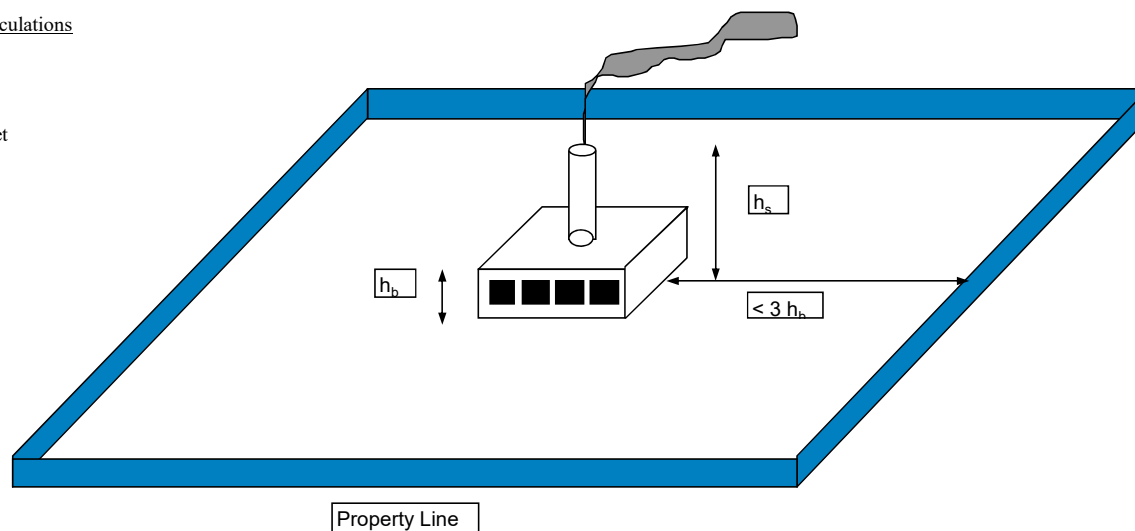
$$C_c (\mu\text{g}/\text{m}^3) = (1.72 * Q_a) / (h_b^2)$$

where Q_a is in lbs/yr and h_b is in feet

Short Term Cavity Impact

$$C_{st} (\mu\text{g}/\text{m}^3) = (904000 * Q) / (h_b^2)$$

where Q is lbs/hr and h_b is in feet



Section III - Point Source Method - Conservative Approach

Use this method only if the stack height to building height ratio is less than 1.5 (no credit given for plume rise due to buoyancy or momentum).

Emission Point SP-03, 04, SSDS Eff
 h_c - stack height (ft) Mixed

Contaminant	CAS Number	Q (lb/hr)	Q _a (lb/yr)	C _a (µg/m ³) C _p (µg/m ³)		C _{st} (µg/m ³)	AGC (µg/m ³)	SGC (µg/m ³)
Acetone	67-64-1	1.24E-06	1.08E-02	1.62E-05	1.61E-05	0.00	30,000	180,000
1,1,1-Trichloroethane	71-55-6	4.92E-03	4.31E+01	6.43E-02	6.42E-02	4.17	5,000	9,000
Dichlorodifluoromethane	75-71-8	2.85E-04	2.50E+00	3.73E-03	3.72E-03	0.24	12,000	None
Toluene	108-88-3	4.44E-07	3.89E-03	5.80E-06	5.80E-06	0.00	5,000	37,000
2-Butanone	78-93-3	6.61E-07	5.79E-03	8.63E-06	8.62E-06	0.00	None	None
Chloromethane	74-87-3	6.61E-07	5.79E-03	8.63E-06	8.62E-06	0.00	90	22,000
1,1 Dichloroethane	75-34-3	4.92E-03	4.31E+01	6.43E-02	6.42E-02	4.17	0.63	None
1,4-Dioxane	123-91-1	1.80E-05	1.58E-01	2.35E-04	2.35E-04	0.02	0.20	3,000
1,1-Dichloroethene	75-35-4	4.51E-04	3.95E+00	5.89E-03	5.88E-03	0.38	None	None
cis-1,2-Dichloroethene	156-59-2	4.51E-04	3.95E+00	5.89E-03	5.88E-03	0.38	0.63	None
Trichloroethene	79-01-6	2.85E-04	2.50E+00	3.73E-03	3.72E-03	0.24	0.21	20

Note: Input values only into gray cells.

Equations Used For Airguide-1 Calculations

Maximum Actual Annual Impact

$$C_a (\mu\text{g}/\text{m}^3) = (6.0 * Q_a) / (h_c^{2.25})$$

where Q_a is in lbs/yr and h_c is in feet

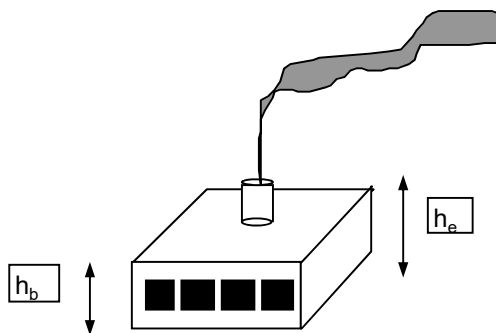
Maximum Potential Annual Impact

$$C_p (\mu\text{g}/\text{m}^3) = (52500 * Q) / (h_c^{2.25})$$

where Q is lbs/hr and h_c is in feet

Maximum Short Term Impact

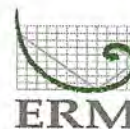
$$C_{st} (\mu\text{g}/\text{m}^3) = C_p * 65$$



APPENDIX G Groundwater Sampling Forms

Low-Flow Groundwater Sampling Form

Site Name: Greif
 Project No.: 0560651



Monitoring Well: mw-12 Area: Indoors
 Date: 9/29/2020 Sampling Device: Peristaltic Pump
 Sampling Personnel: AB
 Weather Conditions: Indoors
 Time: 13:10

Total Depth (TD)¹: 15.98' Screen Length (feet):
 Depth to Water (DTW): 8.14' Well Diameter (inches): 2.0
 Total Volume Purged (USG): 2.0 Casing Type: PVC
 Average Purge Rate: 200 PID Headspace (ppm): 0.0
 Tubing Type: LOPE Measuring Point: TOC
 Pump Intake (feet below MP): 1.0 Color: clear Odor: -

Time (min)	DTW (feet)	Comments	Temp (°C)	SpC (uS/cm ³)	DO (mg/L)	pH (std units)	Turb (NTU)	ORP (mV)	Flow (mL/min)
Stabilization Criteria ²			+/- 3%	+/- 3%	+/- 10%	+/- 0.1 unit	+/- 10% ³	+/- 10 mV	100-400
13:15	8.38		19.2	1774	1.05	7.58	4.85	-45.0	200
13:20	8.61		19.3	1760	0.27	7.49	4.31	-65.0	200
13:25	9.18		19.8	1761	0.17	7.55	4.12	-91.3	200
13:30	9.56		20.1	1730	0.14	7.60	4.01	-94.5	200
13:35	9.95		20.2	1656	0.23	7.70	3.22	-76.2	200
13:40	10.40		20.1	1651	0.22	7.68	2.40	-83.7	200
13:45	10.80		20.2	1659	0.20	7.62	2.31	-92.4	200

Sampling Time: 13:50

Sample ID: mw-12-09292020

Analysis Requested:

Filtered Y/N:

Preservative:

TC1 VOCs 8260
 DOC 90601
 Dissgas
 TDS-2540
 Sulfate EPA300

N
 N
 N
 N
 N

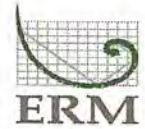
HCl
 N
 HCl
 N
 N

Additional Field Measurements

Notes:

- ¹ = Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
- ² = Stabilization criteria based on three most recent consecutive measurements.
- ³ = Plus or minus 10-percent when turbidity is over 10 NTUs.

Low-Flow Groundwater Sampling Form

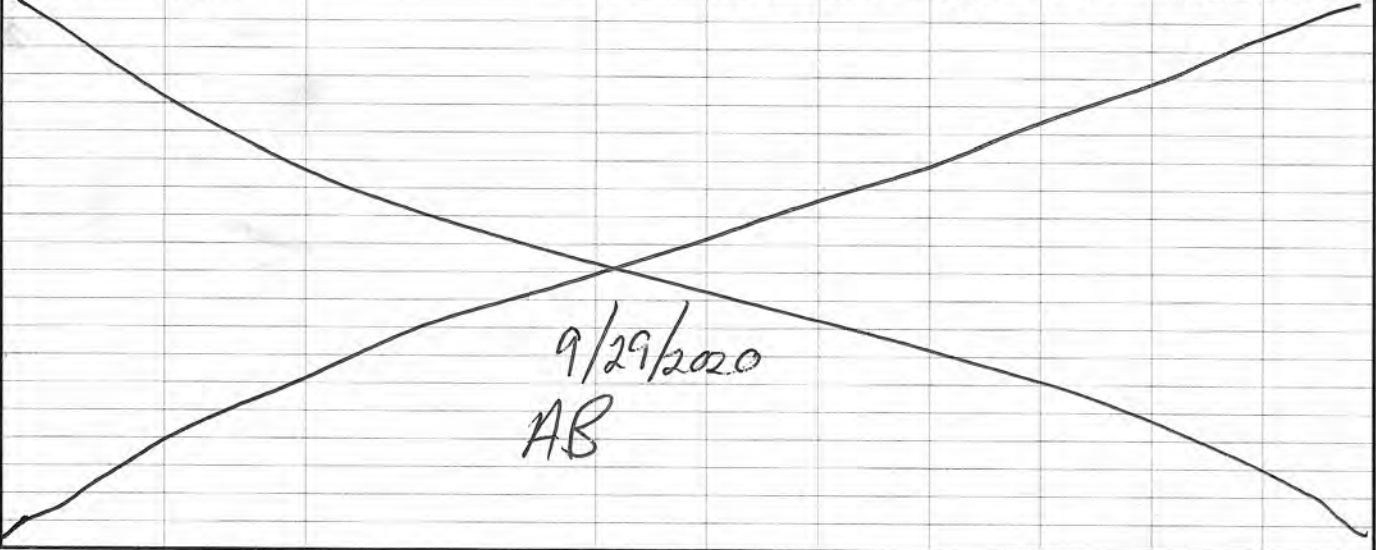


Site Name: Greif
 Project No.: 0560651

Monitoring Well: mw-13 Area: Indoors
 Date: 9/29/2020 Sampling Device: Peristaltic Pump
 Sampling Personnel: AB
 Weather Conditions: Indoors
 Time: 10:55

Total Depth (TD)¹: 16.67' Screen Length (feet):
 Depth to Water (DTW): 7.18' Well Diameter (inches): 2.0
 Total Volume Purged (USG): 2.0 Casing Type: PVC
 Average Purge Rate: 250 PID Headspace (ppm): 0.0
 Tubing Type: LOPE Measuring Point: TOC
 Pump Intake (feet below MP): 1.0 Color: clear Odor: -

Time (min)	DTW (feet)	Comments:	Temp (°C)	SpC (uS/cm ³)	DO (mg/L)	pH (std units)	Turb NTU	ORP mV	Flow (mL/min)
Stabilization Criteria ²	+/- 3%		+/- 3%	+/- 10%	+/- 0.1 unit	+/- 10% ³	+/- 10 mV	100-400	
11:00	7.45		18.2	2648	1.24	7.39	6.87	-81.0	250
11:05	7.81		18.4	2607	0.16	7.14	6.81	-62.5	250
11:10	8.27		18.5	2603	0.11	7.15	6.43	-67.4	250
11:15	8.80		18.5	2602	0.11	7.13	3.85	-69.0	250
11:20	9.04		19.0	2580	0.11	7.11	3.21	-69.6	250
11:25	9.48		19.1	2565	0.10	7.12	3.18	-69.7	250
11:30	9.61		19.2	2543	0.11	7.11	3.09	-69.4	250



Sampling Time: 11:35

Sample ID: mw-13-09292020

Additional Field Measurements

Analysis Requested:	Filtered Y/N:	Preservative:
TC1 VOCs 8260	N	HCl
DOC 90601	N	N
DissGAS	N	HCl
TDS-2540	N	N
Sulfate EPA 300	N	N

Notes:

- ¹ = Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
- ² = Stabilization criteria based on three most recent consecutive measurements.
- ³ = Plus or minus 10-percent when turbidity is over 10 NTUs.

Low-Flow Groundwater Sampling Form

Site Name: Greif
 Project No.: 05-60651



Monitoring Well: Mw. 14 Area: Indoors
 Date: 9/29/20 Sampling Device: Peristaltic Pump
 Sampling Personnel: JR
 Weather Conditions: Indoors
 Time: 0950

Total Depth (TD)¹: 16.78' Screen Length (feet):
 Depth to Water (DTW): 10.18' Well Diameter (inches): 2.0
 Total Volume Purged (USG): 2.0 Casing Type: PVC
 Average Purge Rate: 200 PID Headspace (ppm): 179 ppm
 Tubing Type: LDPE Measuring Point: TOC
 Pump Intake (feet below MP): 1.0 Color: Clear Odor: -

Time (min)	DTW (feet)	Comments	Temp (°C)	SpC (uS/cm ³)	DO (mg/L)	pH (std units)	Turb (NTU)	ORP (mV)	Flow (mL/min)
Stabilization			+/-	+/-	+/-	+/-	+/-	+/-	
Criteria ²			3%	3%	10%	0.1 unit	10% ³	10 mV	100-400
0955	10.45		19.1	1223	2.20	7.32	7.44	-71.3	200
1000	10.18		19.12	1224	0.71	7.00	7.12	-112.5	200
1005	11.62		19.4	1223	1.08	7.05	5.56	-104.1	200
1010	12.01		19.5	1235	0.96	7.08	5.72	-92.8	200
1015	12.47		19.5	1244	0.53	7.08	5.64	-65.7	200
1020	12.84		19.4	1246	0.51	7.07		-111.4	200
1025	13.38		19.3	1242	0.58	7.08		-109.7	200

JR
8/29/2020

Sampling Time: 1030

Sample ID: Mw14-09292020
DWP-01-09292020

Analysis Requested:

Filtered Y/N:

Preservative:

Additional Field Measurements

TC1 90601
 DOC 90601
 Diss 90601
 TDS 2540
 Sulfate EPA300

N
N
N
N
N

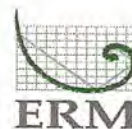
HCl
N
HCl
N
N

Notes:

- ¹ = Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
- ² = Stabilization criteria based on three most recent consecutive measurements.
- ³ = Plus or minus 10-percent when turbidity is over 10 NTUs.

Low-Flow Groundwater Sampling Form

Site Name: Careit
 Project No.: 0560651



Monitoring Well: MW-19 Area: outdoors
 Date: 9/28/20 Sampling Device: peristaltic pump
 Sampling Personnel: Austin Baker
 Weather Conditions: cloudy 75
 Time: 12:58

Total Depth (TD)¹: 17.38' Screen Length (feet):
 Depth to Water (DTW): 8.20 Well Diameter (inches): 2.0
 Total Volume Purged (USG): 2.5 Casing Type: PVC
 Average Purge Rate: 200 PID Headspace (ppm): 0.0
 Tubing Type: LOPE Measuring Point: TOC
 Pump Intake (feet below MP): 1.0 Color: clear Odor: -

Time (min)	DTW (feet)	Comments:	Temp (°C)	SpC (uS/cm ³)	DO (mg/L)	pH (std units)	Turb NTU	ORP mV	Flow (mL/min)
Stabilization Criteria ²	+/- 3%		+/- 3%	+/- 10%	+/- 0.1 unit	+/- 10% ³	+/- 10 mV	100-400	
12:40	8.22		17.1	1110	1.18	7.81	21.3	191.2	200
12:45	8.73		16.5	1092	0.24	7.59	15.5	172.0	200
12:50	9.12		17.0	1094	0.19	7.61	12.1	162.7	200
12:55	9.45		17.7	1092	0.15	7.63	18.3	157.6	200
13:00	9.79		18.3	1090	0.15	7.64	16.3	151.8	200
13:05	10.48		18.2	1084	0.15	7.63	16.4	143.7	200
13:10	10.90		18.4	1083	0.14	7.64	16.2	138.4	200

9/28/2020
AB

Sampling Time: 13:15

Sample ID: MW-19-09282020

Analysis Requested:	Filtered Y/N:	Preservative:
TC1 VOCs R260	N	HCl
DOC 90601	N	N
DISSGAS	N	HCl
TDS-2540	N	N
Sulfate EPA 300	N	N

Additional Field Measurements

Notes:

- ¹ = Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
- ² = Stabilization criteria based on three most recent consecutive measurements.
- ³ = Plus or minus 10-percent when turbidity is over 10 NTUs.

Low-Flow Groundwater Sampling Form



Site Name: Greif
 Project No.: 0560651

Monitoring Well: <u>MW-20</u>	Area: <u>Indoors</u>
Date: <u>9/29/2020</u>	Sampling Device: <u>Peristaltic Pump</u>
Sampling Personnel: <u>JR</u>	
Weather Conditions: <u>Indoors</u>	
Time: <u>1115</u>	

Total Depth (TD) ¹ : <u>NM</u>	Screen Length (feet):
Depth to Water (DTW): <u>13.56</u>	Well Diameter (inches): <u>2.0 4.0</u>
Total Volume Purged (USG): <u>2.0</u>	Casing Type: <u>PVC</u>
Average Purge Rate: <u>200</u>	PID Headspace (ppm): <u>121</u>
Tubing Type: <u>LOPE</u>	Measuring Point: <u>TOC</u>
Pump Intake (feet below MP): <u>1.0</u>	Color: <u>clear</u> Odor: <u>-</u>

Time (min)	DTW (feet)	Comments	Temp	SpC	DO	pH	Turb	ORP	Flow
			(°C)	(uS/cm ³)	(mg/L)	(std units)	NTU	mV	(mL/min)
Stabilization	Criteria ²		+/-	+/-	+/-	+/-	+/-	+/-	
			3%	3%	10%	0.1 unit	10% ³	10 mV	100-400
1125	14.08		8.10	2287	3.19	6.88	8.91	61.6	200
1130	15.90		7.19	2277	1.19	6.30	8.93	20.16	200
1135	6.82	Broken down	7.19	2273	2.47	6.29	7.78	-25.5	200
1140	6.80		8.16	2285	6.49	6.44	4.47	-45.3	200
1145	7.01		7.18	2296	15.97	6.59	6.77	-53.5	200
1150	7.72		8.10	2274	62.27	6.08	5.85	-73.9	200
1155	7.97		7.17	2262	75.30	6.67	5.99	-81.9	200
1200	8.65		7.16	2269	75.97	6.70	5.78	-85.3	200
1205	8.85		7.16	2283	72.21	6.72		-86.8	200

Sampling Time: 1205

Sample ID: <u>MW-20-09292020</u>	Analysis Requested:	Filtered Y/N:	Preservative:
	<u>Tcl VOCs 8260</u>	<u>N</u>	<u>HC 1</u>
	<u>DOC 90601</u>	<u>N</u>	<u>N</u>
	<u>Diss Sol</u>	<u>N</u>	<u>HC 1</u>
	<u>TDS-2540</u>	<u>N</u>	<u>N</u>
	<u>Sulfate EPA 800</u>	<u>N</u>	<u>N</u>

Notes:
¹ = Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
² = Stabilization criteria based on three most recent consecutive measurements.
³ = Plus or minus 10-percent when turbidity is over 10 NTUs.

Low-Flow Groundwater Sampling Form

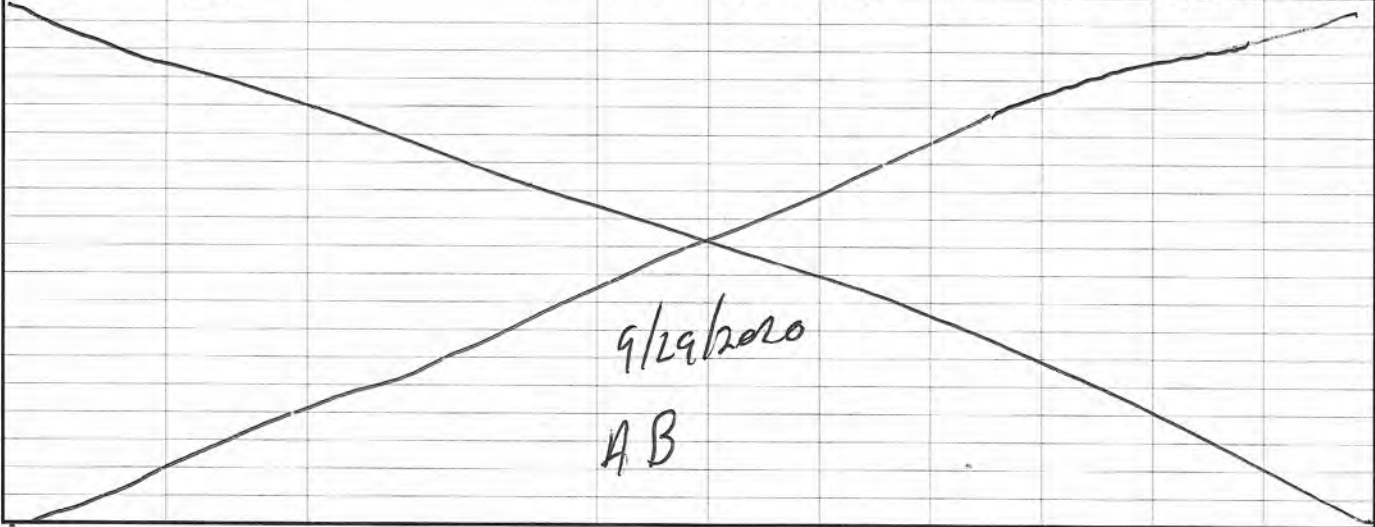


Site Name: Greif
 Project No.: 0560651

Monitoring Well: <u>MW-22</u>	Area: <u>Indoors</u>
Date: <u>9/29/2020</u>	Sampling Device: <u>peristaltic pump</u>
Sampling Personnel: <u>AB</u>	
Weather Conditions: <u>Indoor</u>	
Time: <u>9:40</u>	

Total Depth (TD) ¹ : <u>29.98'</u>	Screen Length (feet):
Depth to Water (DTW): <u>14.73'</u>	Well Diameter (inches): <u>2.0</u>
Total Volume Purged (USG): <u>2.5</u>	Casing Type: <u>pvc</u>
Average Purge Rate: <u>200</u>	PID Headspace (ppm): <u>13.6</u>
Tubing Type: <u>HDPE</u>	Measuring Point: <u>TOC</u>
Pump Intake (feet below MP): <u>1.0</u>	Color: <u>-</u> Odor: <u>-</u>

Time (min)	DTW (feet)	Comments:	Temp (°C)	SpC (uS/cm ³)	DO (mg/L)	pH (std units)	Turb NTU	ORP mV	Flow (mL/min)
Stabilization Criteria ²	+/- 3%		+/- 3%	+/- 10%	+/- 0.1 unit	+/- 10% ³	+/- 10 mV	100-400	
9:45	14.98		17.4	1801	3.76	7.84	12.11	-50.4	200
9:50	15.21		16.8	1814	1.06	7.64	8.62	-120.4	200
9:55	15.36		16.7	1795	0.70	7.66	8.45	-138.9	200
10:00	15.62		16.7	1764	0.42	7.69	6.23	-146.6	200
10:05	15.74		16.7	1740	0.64	7.71	6.18	-157.3	200
10:10	15.83		16.6	1720	0.21	7.71	6.43	-157.3	200
10:15	16.02		16.6	1710	0.19	7.72	6.49	-162.8	200
10:20	16.10		16.6	1698	0.20	7.73	6.51	-167.1	200



Sampling Time: 10:25

Sample ID: MW-22-09292020

Additional Field Measurements

Analysis Requested:	Filtered Y/N:	Preservative:
<u>TC1 VOCs P260</u>	<u>N</u>	<u>HCl</u>
<u>DOC 90601</u>	<u>N</u>	<u>N</u>
<u>Dissg.O₂</u>	<u>N</u>	<u>HCl</u>
<u>TDS -2540</u>	<u>N</u>	<u>N</u>
<u>Sulfate EPA 300</u>	<u>N</u>	<u>N</u>

Notes:

- ¹ = Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
- ² = Stabilization criteria based on three most recent consecutive measurements.
- ³ = Plus or minus 10-percent when turbidity is over 10 NTUs.

Low-Flow Groundwater Sampling Form

Site Name: Greif
 Project No.: 0560651



Monitoring Well: Mw-24 Area: outdoors
 Date: 9/28/2020 Sampling Device: peristaltic
 Sampling Personnel: JR
 Weather Conditions: Sunny, 80
 Time: 1510

Total Depth (TD)¹: 14.27' Screen Length (feet):
 Depth to Water (DTW): 3.18' Well Diameter (inches): 2.0
 Total Volume Purged (USG): 2.0 Casing Type: PVC
 Average Purge Rate: 200 PID Headspace (ppm): 0.0
 Tubing Type: LOPE Measuring Point: TOC
 Pump Intake (feet below MP): 1.0 Color: clear Odor: -

Time (min)	DTW (feet)	Comments:	Temp (°C)	SpC (uS/cm ³)	DO (mg/L)	pH (std units)	Turb NTU	ORP mV	Flow (mL/min)
Stabilization Criteria ²			+/- 3%	+/- 3%	+/- 10%	+/- 0.1 unit	+/- 10% ³	+/- 10 mV	100-400
1515	3.22		17.1	1947	0.28	7.24	1290	-177.8	200
1520	3.22		18.0	1965	0.34	7.19	48.4	-156.8	200
1525	3.22		18.2	1970	0.32	7.19	30.70	-166.8	200
1530	3.25		19.1	2067	0.63	7.19	15.2	-189.0	200
1535	3.26		19.9	1925	0.23	7.30	15.18	-203.3	200
1540	3.26		20.2	1835	0.14	7.35	12.8	-220.8	200
1545	3.26		20.4	1815	0.13	7.41	7.28	-198.1	200
1550	3.26		20.5	1826	0.17	7.44	8.61	-188.2	200
1555	3.26		20.6	1828	0.26	7.46	8.20	-174.4	200
1600	3.26		20.7	1822	0.40	7.47	6.00	-156.8	200
1605	3.28		20.7	1818	0.44	7.48	6.12	-148.3	200
1610	3.26		20.5	1812	0.51	7.45	6.34	-141.7	200
1615	3.26		20.8	1813	0.52	7.45	5.84	+360.9	200
1620	3.26	Battery out	21.4	1809	0.65	7.48	5.77	-125.4	200
1625	3.26		20.5	1813	0.65	7.48		-125.5	200
1630	3.26		20.8	1809	0.66	7.46		-123.0	200

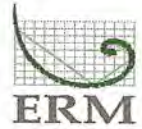
JR
9/28/2020

Sampling Time: 1630
 Sample ID: MW-24-09282020

Analysis Requested:	Filtered Y/N:	Preservative:
Tot VOCs 8260	N	HCl
DOC 90601	N	N
Dissgas	N	HCl
TDS - 2540	N	N
Sulfate EPA 200	N	N

Notes:
¹ = Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
² = Stabilization criteria based on three most recent consecutive measurements.
³ = Plus or minus 10-percent when turbidity is over 10 NTUs.

Low-Flow Groundwater Sampling Form

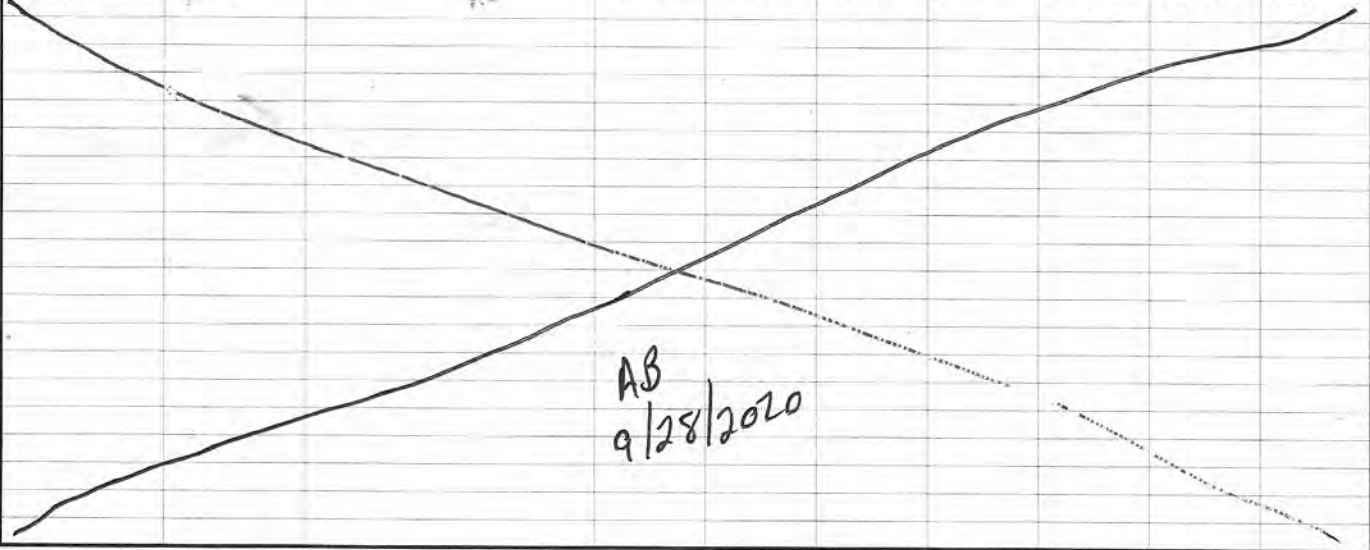


Site Name: Greif
 Project No.: 0560651

Monitoring Well: mw-25 Area: outdoors
 Date: 9/28/2020 Sampling Device: Resistaltic Pump
 Sampling Personnel: AB
 Weather Conditions: Cloudy, 78
 Time: 15:05

Total Depth (TD)¹: 14.3' Screen Length (feet):
 Depth to Water (DTW): 6.26' Well Diameter (inches): 2.6
 Total Volume Purged (USG): 2.0 Casing Type: PVC
 Average Purge Rate: 250 PID Headspace (ppm): 0.0
 Tubing Type: LDPE Measuring Point: TOC
 Pump Intake (feet below MP): 1.0 Color: — Odor: —

Time (min)	DTW (feet)	Comments:	Temp (°C)	SpC (uS/cm ³)	DO (mg/L)	pH (std units)	Turb NTU	ORP mV	Flow (mL/min)
Stabilization Criteria ²	+/- 3%		+/- 3%	+/- 10%	+/- 0.1 unit	+/- 10% ³	+/- 10 mV	100-400	
15:10	6.28		19.3	4813	1.42	7.74	412.24	-13.7	250
15:15	6.25		18.8	4754	0.23	7.48	10.28	-57.3	250
15:20	6.25		19.1	4228	0.15	7.47	7.32	-82.8	250
15:25	6.25		19.3	4122	0.11	7.45	6.15	-92.2	250
15:30	6.25		20.0	4137	0.15	7.45	6.08	-97.1	250
15:35	6.25		20.3	4179	0.15	7.44	6.10	-99.5	250
15:40	6.25		20.2	4211	0.14	7.44	6.13	-102.5	250



Sampling Time: 15:45

Sample ID: mw-25-09282020

Analysis Requested:	Filtered Y/N:	Preservative:
TCL VOCs 8260	N	HCl
DOC 90601	N	N
D:55gas	N	HCl
TDS-2540	N	N
Sulfate EPA 300	N	N

Additional Field Measurements

MS 3 MSD collected on mw-25

Notes:

- ¹ = Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
- ² = Stabilization criteria based on three most recent consecutive measurements.
- ³ = Plus or minus 10-percent when turbidity is over 10 NTUs.

Low-Flow Groundwater Sampling Form

192 3.90



Site Name: Greif
 Project No.: 056 0651

Monitoring Well: MW-26 Area: Outdoors
 Date: 9/28/20 Sampling Device: Peristaltic Pump
 Sampling Personnel: J. Reynolds
 Weather Conditions: Overcast 27.5°F
 Time: 1230

Total Depth (TD)¹: 17.24' Screen Length (feet):
 Depth to Water (DTW): 3.90' Well Diameter (inches): 4"
 Total Volume Purged (USG): 2.0 Casing Type: PVC
 Average Purge Rate: 200 PID Headspace (ppm): 0.0
 Tubing Type: LDPE Measuring Point: Top
 Pump Intake (feet below MP): 1.0 Color: Clear Odor: -

Time (min)	DTW (feet)	Comments:	Temp (°C)	SpC (uS/cm ³)	DO (mg/L)	pH (std units)	Turb NTU	ORP mV	Flow (mL/min)
Stabilization Criteria ²	+/- 3%		+/- 3%	+/- 10%	+/- 0.1 unit	+/- 10% ³	+/- 10 mV	100-400	
1240	3.90		18.8	2315	2.78	7.16	13.7	-140.1	200
1245	3.90		18.0	2280	0.73	7.14	11.2	-165.1	200
1250	3.90		18.4	2277	0.83	7.32	16.8	-193.1	200
1255	3.90		18.5	2278	1.18	7.42	10.21	-210.3	200
1300	3.90		18.9	2275	1.44	7.48	10.41	-214.3	200
1305	3.90		19.1	2277	1.52	7.49	9.87	-220.4	200
1310	3.90		19.2	2270	1.38	7.52	9.98	-223.6	200
1315	3.90		19.1	2272	1.42	7.55	8.70	-226.2	200
1320	3.90		19.2	2268	1.20	7.56	6.89	-227.4	200
1325	3.90		19.5	2240	1.25	7.57	7.71	-227.4	200
1330	3.90		19.8	2265	1.19	7.57	7.75	-227.8	200

AN

Sampling Time: 1330

Sample ID: MW-26-09282020

Analysis Requested:
 TCI VOCs 8260
 DOC 96601
 DISSGAS
 TDS-2540
 Sulfate EPA 300

Filtered Y/N:
 N
 N
 N
 N
 N

Preservative:
 HCl
 N
 HCl
 N
 N

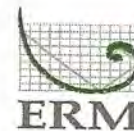
Additional Field Measurements

Notes:

- ¹ = Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
- ² = Stabilization criteria based on three most recent consecutive measurements.
- ³ = Plus or minus 10-percent when turbidity is over 10 NTUs.

Low-Flow Groundwater Sampling Form

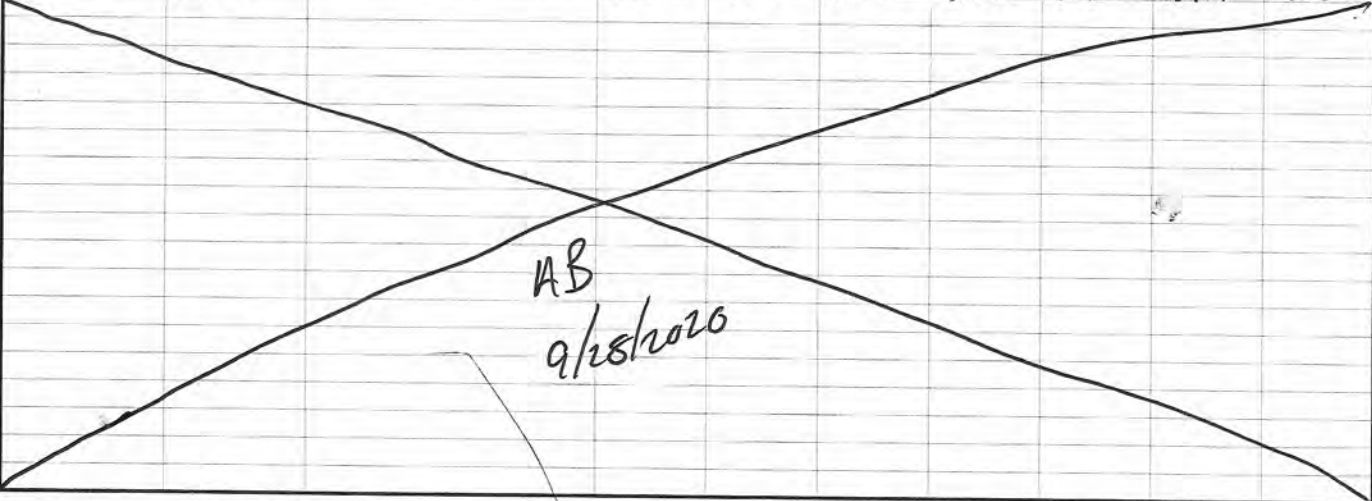
Site Name: Great
 Project No.: 0560651



Monitoring Well: <u>mw-27</u>	Area: <u>outdoors</u>
Date: <u>9/28/20</u>	Sampling Device: <u>peristaltic pump</u>
Sampling Personnel: <u>AB</u>	
Weather Conditions: <u>Sunny, EG</u>	
Time: <u>13:50</u>	

Total Depth (TD) ¹ : <u>17.71'</u>	Screen Length (feet):
Depth to Water (DTW): <u>8.55'</u>	Well Diameter (inches): <u>4.0</u>
Total Volume Purged (USG): <u>2.5</u>	Casing Type: <u>PVC</u>
Average Purge Rate: <u>250</u>	PID Headspace (ppm): <u>0.0</u>
Tubing Type: <u>LOPE</u>	Measuring Point: <u>TOC</u>
Pump Intake (feet below MP): <u>1.0</u>	Color: <u>clear</u> Odor: <u>-</u>

Time (min)	DTW (feet)	Comments:	Temp	SpC	DO	pH	Turb	ORP	Flow
			(°C)	(uS/cm ³)	(mg/L)	(std units)	NTU	mV	(mL/min)
Stabilization Criteria ²			+/- 3%	+/- 3%	+/- 10%	+/- 0.1 unit	+/- 10% ³	+/- 10 mV	100-400
13:50	8.70		16.1	1180	1.19	7.31	12.8	179.0	250
13:55	8.90		15.9	1171	0.87	7.76	11.2	175.0	250
14:00	9.0		15.8	1166	0.87	7.74	10.7	171.7	250
14:05	9.32		16.2	1166	0.79	7.74	10.2	163.8	250
14:10	9.50		16.5	1154	0.69	7.75	10.1	160.4	250
14:15	9.65		18.0	1175	0.58	7.77	10.7	154.1	250
14:20	9.72		18.1	1187	0.66	7.80	9.4	150.9	250
14:25	9.83		18.2	1175	0.55	7.77	9.7	152.0	250
14:30	9.87		18.0	1174	0.53	7.76	9.6	151.9	250



Sampling Time: 14:35

Sample ID: MW-27-09282020

Additional Field Measurements

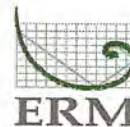
Analysis Requested:	Filtered Y/N:	Preservative:
TC1 VOCs 8260	N	HCl
DOC 90661	N	N
D:55945	N	HCl
TDS-2540	N	N
Sulfate EPA 300	N	N

Notes:

- ¹ = Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
- ² = Stabilization criteria based on three most recent consecutive measurements.
- ³ = Plus or minus 10-percent when turbidity is over 10 NTUs.

Low-Flow Groundwater Sampling Form

Site Name: Greif
 Project No.: 0560651



Monitoring Well: APW-3 Area: Outdoors
 Date: 9/28/2020 Sampling Device: Peristaltic pump
 Sampling Personnel: JR
 Weather Conditions: Sunny, 80
 Time: 1350

Total Depth (TD)¹: ~~17.98'~~ 17.98' Screen Length (feet):
 Depth to Water (DTW): 7.89' Well Diameter (inches): 2.0
 Total Volume Purged (USG): 2.0 Casing Type: PVC
 Average Purge Rate: 200 PID Headspace (ppm): 0.0
 Tubing Type: LDPE Measuring Point: TOC
 Pump Intake (feet below MP): 1.0 Color: clear Odor: -

Time (min)	DTW (feet)	Comments	Temp (°C)	SpC (uS/cm ³)	DO (mg/L)	pH (std units)	Turb NTU	ORP mV	Flow (mL/min)
Stabilization Criteria ²			+/- 3%	+/- 3%	+/- 10%	+/- 0.1 unit	+/- 10% ³	+/- 10 mV	100-400
355	6.93		8.8	140.7	1.43	7.10	8.88	-106.1	200
400	7.10		7.7	135.8	0.62	7.25	8.42	-176.9	200
405	7.20		8.0	136.2	2.91	7.26	8.47	-173.8	200
410	7.41		7.9	136.4	3.72	7.28	8.57	-202	200
415	7.53		8.1	136.3	3.20	7.29	8.23	-205.7	200
420	7.76		8.0	136.3	2.14	7.29	8.18	-208.7	200
425	7.87		8.1	135.8	0.74	7.29	7.93	-209.0	200
430	8.11		8.2	135.2	0.27	7.29	7.76	-209.3	200
435	8.29		7.2	134.6	0.24	7.31	8.10	-209.3	200
440	8.50		7.2	134.0	0.21	7.29	8.20	-208.6	200
445	8.75		7.4	133.3	0.20	7.30	8.10	-208.7	200

JR

Sampling Time: 1445

Sample ID: APW-3-09282020 Analysis Requested: TC1 VOCs 8260 Filtered Y/N: N Preservative: HCl
DOC 90601 N N
DissGS N HCl
TDS-2540 N N
Sulfate EPA 300 N N

Notes:
¹ = Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
² = Stabilization criteria based on three most recent consecutive measurements.
³ = Plus or minus 10-percent when turbidity is over 10 NTUs.



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page
1 of 2

ALPHA Job #

Client Information
Client: ERM
Address: 5784 Widewaters
Pky, Tonawanda, NY
Phone:
Fax:
Email: jason.reynolds@erm.com

Project Information
Project Name: Sonoco
Project Location: Tonawanda, NY
Project # 056065

Deliverables
 ASP-A
 EQUS (1 File)
 Other
 ASP-B
 EQUS (4 File)

Client Information
Client: ERM
Address: 5784 Widewaters
Pky, Tonawanda, NY
Phone:
Fax:
Email: jason.reynolds@erm.com

Project Information
Project Name: Sonoco
Project Location: Tonawanda, NY
Project # 056065

Regulatory Requirement
 NY TOGS
 AWQ Standards
 NY Restricted Use
 NY Unrestricted Use
 NYC Sewer Discharge
 NY Part 375
 NY CP-51
 Other

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Address: 5784 Widewaters
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Project # 056065

Regulatory Requirement
 NY TOGS
 AWQ Standards
 NY Restricted Use
 NY Unrestricted Use
 NYC Sewer Discharge
 NY Part 375
 NY CP-51
 Other

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS	Sample Filtration	Sample Specific Comments
		Date	Time					
	MW-26-09182000	9/18/10	1330	Water	GR	Doc 90604	<input checked="" type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do <input checked="" type="checkbox"/> Preservation <input checked="" type="checkbox"/> Lab to do	
	APW-3-09182000	9/18/10	1445	Water	GR	Doc 90604	<input checked="" type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do <input checked="" type="checkbox"/> Preservation <input checked="" type="checkbox"/> Lab to do	
	MW-24-09182000	9/18/10	1630	Water	GR	Doc 90604	<input checked="" type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do <input checked="" type="checkbox"/> Preservation <input checked="" type="checkbox"/> Lab to do	
	MW-14-09192000	9/19/10	1030	Water	GR	Doc 90604	<input checked="" type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do <input checked="" type="checkbox"/> Preservation <input checked="" type="checkbox"/> Lab to do	
	DUP-01-09192000	9/19/10	1200	Water	GR	Doc 90604	<input checked="" type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do <input checked="" type="checkbox"/> Preservation <input checked="" type="checkbox"/> Lab to do	
	MW-20-09192000	9/19/10	1705	Water	GR	Doc 90604	<input checked="" type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do <input checked="" type="checkbox"/> Preservation <input checked="" type="checkbox"/> Lab to do	
	MW-25-09182000	9/18/10	1545	Water	AB	Doc 90604	<input checked="" type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do <input checked="" type="checkbox"/> Preservation <input checked="" type="checkbox"/> Lab to do	
	MW-27-09182000	9/18/10	1435	Water	AB	Doc 90604	<input checked="" type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do <input checked="" type="checkbox"/> Preservation <input checked="" type="checkbox"/> Lab to do	
	MW-19-09182000	9/18/10	1550	Water	AB	Doc 90604	<input checked="" type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do <input checked="" type="checkbox"/> Preservation <input checked="" type="checkbox"/> Lab to do	
	MW-22-09192000	9/19/10	1025	Water	AB	Doc 90604	<input checked="" type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do <input checked="" type="checkbox"/> Preservation <input checked="" type="checkbox"/> Lab to do	

Preservative Code:
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By: [Signature]
Date/Time: 9/20/10 15:50

Received By: [Signature]
Date/Time: 9/20/10 15:50

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Service Centers
 Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
 Albany, NY 12205: 14 Walker Way
 Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Project Information
 Project Name: Square
 Project Location: Tonawanda, NY
 Project # 0560651

Westborough, MA 01581
 8 Walkup Dr.
 TEL: 508-898-9220
 FAX: 508-898-9193

Client Information
 Client: EGM
 Address: 5784 Widwanta
Pkwy Syracuse, NY
 Phone:
 Fax:
 Email: jasen.reynolds@egm.com

Project Information
 (Use Project name as Project #)
 Project Manager:
 ALPHAQuote #:
 Turn-Around Time
 Standard Due Date:
 Rush (only if pre approved) # of Days:

Regulatory Requirement
 NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

Disposal Site Information
 Please identify below location of applicable disposal facilities.
 Disposal Facility:
 NJ NY
 Other:

Deliverables
 ASP-A ASP-B
 EQUIS (1 File) EQUIS (4 File)
 Other
Billing Information
 Same as Client Info
 PO #

ANALYSIS
 These samples have been previously analyzed by Alpha
Other project specific requirements/comments:
only report Project Specific Va List.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Container Type	Preservative	Date/Time	Date/Time
	MW-13-09797020	9/29/20	1135	watc	AB	VVVV P			
	MW-17-05297020	9/29/20	1315	watc	AB	BAB A			
	Trip. Blank - 07197020			watc	AB				

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By: Oct 11, 2020
 Date/Time: 9/25/20 15:50
 Received By: AAE
 Date/Time: 9/30/20 1550

Preservative Code:
 A = None
 B = HCl
 C = HNO₃
 D = H₂SO₄
 E = NaOH
 F = MeOH
 G = NaHSO₄
 H = Na₂S₂O₃
 K/E = Zn Ac/NaOH
 O = Other



Container Code:
 P = Plastic
 A = Amber Glass
 V = Vial
 G = Glass
 B = Bacteria Cup
 C = Cube
 O = Other
 E = Encore
 D = BOD Bottle

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHAS TERMS & CONDITIONS. (See reverse side.)

APPENDIX H WASTE DOCUMENTATION

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD099340408	2. Page 1 of 1	3. Emergency Response Phone (800) 483-3718	4. Manifest Tracking Number 005652071 SKS					
5. Generator's Name and Mailing Address Green, Inc. 5788 Widewater Parkway Syracuse, NY 13218		Generator's Site Address (if different than mailing address) 2122 Colvin Blvd Tonawanda, NY 14150								
Generator's Phone: (716) 725-5389		ATTN: Jason Reynolds								
6. Transporter 1 Company Name Clean Harbors Environmental Services, Inc				U.S. EPA ID Number MAD039322260						
7. Transporter 2 Company Name				U.S. EPA ID Number						
8. Designated Facility Name and Site Address Clean Harbors El Dorado LLC 309 American Circle El Dorado, AR 71730				U.S. EPA ID Number ARD069748192						
Facility's Phone: (870) 963-7173										
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes				
		No.	Type			U002	U043	U076		
X	1. HA3082, HAZARDOUS WASTE, LIQUID, N.O.S., (1, 1-DICHLOROETHANE, 1,1,1-TRICHLOROETHANE), 9, PG III	001	DR	250	P	U002	U043	U076		
X	2. HA3077, HAZARDOUS WASTE, SOLID, N.O.S., (1, 1-DICHLOROETHANE, 1,1,1-TRICHLOROETHANE), 9, PG III	001	DR	40	P	U002	U043	U076		
	3.									
	4.									
14. Special Handling Instructions and Additional Information 1. CH1614828 ERG#171 2. CH1614828 DEMLIS ERG#171										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offoror's Printed/Typed Name Jason Reynolds				Signature <i>[Signature]</i>			Month 12		Day 10	Year 20
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____										
17. Transporter Acknowledgment of Receipt of Materials										
Transporter 1 Printed/Typed Name Green, Inc				Signature <i>[Signature]</i>			Month 12		Day 10	Year 20
Transporter 2 Printed/Typed Name				Signature			Month		Day	Year
18. Discrepancy										
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection										
Manifest Reference Number:										
18b. Alternate Facility (or Generator)				U.S. EPA ID Number						
Facility's Phone:										
18c. Signature of Alternate Facility (or Generator)							Month		Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H040			2. H040			3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name				Signature			Month		Day	Year

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD099340408		2. Page 1 of 1		3. Emergency Response Phone (800) 424-9713		4. Manifest Tracking Number 013489195 FLE				
		5. Generator's Name and Mailing Address 5788 Widewater Parkway Syracuse, NY 13214 (716) 728-8360 ATTN: Jason Reynolds						Generator's Site Address (if different than mailing address) 2122 Colvin Blvd. Tonawanda, NY 14150				
6. Transporter 1 Company Name Clean Harbors Environmental Services, Inc.						U.S. EPA ID Number MAD039922250						
7. Transporter 2 Company Name						U.S. EPA ID Number						
8. Designated Facility Name and Site Address Spring Grove Resource Recovery Inc. 4579 Spring Grove Avenue Cincinnati, OH 45232 (513) 651-8730						U.S. EPA ID Number DHD000816829						
9a. HM		9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
						No. Type						
X		1. NA3077, HAZARDOUS WASTE, SOLID, N.O.S., (1, 1-DICHLOROETHANE, 1,1,1-TRICHLOROETHANE), 9, PG III				1 DM		30	P	U002 U043 U076 U078 U228 B		
X		2. NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., (1, 1-DICHLOROETHANE, 1,1,1-TRICHLOROETHANE), 9, PG III				1 DM		30	P	U002 U043 U076 U078 U228 B		
		3.										
		4.										
14. Special Handling Instructions and Additional Information 2. call 614829 2809171												
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.												
Generator's/Offendor's Printed/Typed Name TOM ZUGELER								Signature 		Month 7	Day 15	Year 21
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____												
17. Transporter Acknowledgment of Receipt of Materials												
Transporter 1 Printed/Typed Name John Welsh								Signature 		Month 7	Day 15	Year 21
Transporter 2 Printed/Typed Name								Signature		Month	Day	Year
18. Discrepancy												
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____												
18b. Alternate Facility (or Generator)								U.S. EPA ID Number				
Facility's Phone: _____												
18c. Signature of Alternate Facility (or Generator)												
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)												
1. H141			2. H141			3.		4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a												
Printed/Typed Name								Signature		Month	Day	Year

Clean Harbors Manifest Addendum

<u>Generator ID Number:</u>		<u>Sales Order Number:</u>	
N Y D 0 9 9 3 4 0 4 0 8		013489195FLE	
2103576087-002			
Greif, Inc.			
2122 Colvin Blvd.			
Tonawanda, NY14150			
<u>Line #:</u>	<u>Profile No:</u>	<u>Profile Description:</u>	<u>Waste Codes:</u>
1.	CH1614828DEBR IS		U226 U239 D029 D040 F001 F002 F003
	<u>CH Container #</u>	<u>Customer Container #</u>	
2.	CH1614828		U226 U239 D029 D040 F001 F002 F003
	<u>CH Container #</u>	<u>Customer Container #</u>	



Land Disposal Restriction
Notification Form

Printed Date : Jul 13, 2021

MANIFEST INFORMATION

Generator : Greif, Inc. Address: 2122 Colvin Blvd. Tonawanda, NY 14150 EPA ID #: NYD099340408	Manifest Tracking Info. 013489195FLE Sales Order No: 2103576087-002
--	---

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH1614828DEB RIS	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code D029D040F001F002F003U002U043U076U078U226U239	EPA Waste SubCategory NONE
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LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
1,1,1-TRICHLOROETHANE	Y	Y	N
1,1-DICHLOROETHANE	Y	N	N
1,1-DICHLOROETHYLENE	Y	N	N
1,2-DICHLOROETHANE	Y	N	N
ACETONE	Y	Y	N
BENZENE	Y	Y	N
TETRACHLOROETHYLENE	Y	Y	N
TRICHLOROETHYLENE	Y	Y	N
VINYL CHLORIDE	Y	N	N
XYLENES (MIXED ISOMERS)	Y	Y	N

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
2.	1	CH1614828	WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code D029D040F001F002F003U002U043U076U078U226U239	EPA Waste SubCategory NONE
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LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
1,1,1-TRICHLOROETHANE	Y	Y	N
ACETONE	N	Y	N
BENZENE	Y	Y	N
TETRACHLOROETHYLENE	Y	Y	N
TRICHLOROETHYLENE	Y	Y	N
XYLENES (MIXED ISOMERS)	Y	Y	N



Land Disposal Restriction
Notification Form

Printed Date : Jul 13, 2021

Certification

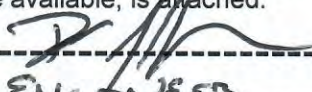
Applies to
Manifest Line
Items

Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.

1. 2.

Waste analysis data, where available, is attached.

Signature :



ENGINEER

Print Name

TOM ZUGELDER

Title :

Date :

7-15-21

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