HALEY ALDRICH

www.haleyaldrich.com

2020 PERIODIC REVIEW REPORT & IC/EC CERTIFICATION SUBMITTAL

TIOGA AVENUE BCP SITE # C851031
CORNING, NEW YORK

by Haley & Aldrich of New York
Rochester, New York

for New York State Department of Environmental Conservation
East Avon, New York

File No. 131230-003
27 April 2021

Haley & Aldrich of New York
200 Town Centre Drive
Suite 2
Rochester, NY 14623
585.359.9000

27 April 2021
File No. 131230-003

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
East Avon, New York 14414

Attention: Mr. Timothy Schneider, P.E.

Subject: 2020 Periodic Review Report & IC/EC Certification Submittal
Tioga Avenue BCP Site #C851031
Corning, New York

Dear Mr. Schneider:

On behalf of Corning Incorporated and Corning Property Management Corporation (collectively referred to herein as Corning), Haley & Aldrich of New York (Haley & Aldrich), as the Qualified Environmental Professional, is providing the attached Site Management Periodic Review Report and Annual Institutional and Engineering Controls Certification (PRR) for the Tioga Avenue BCP Site #C851031 in accordance with the New York State Department of Environmental Conservation (NYSDEC) Certificate of Completion dated April 18, 2012 and the Site Management Plan as revised and approved by NYSDEC on April 3, 2012. The NYSDEC Site Management Periodic Review Report Notice, Institutional and Engineering Controls Certification Form is included in this report under Appendix A. The last PRR submitted for the Tioga Avenue BCP Site (Site) was the 2019 PRR, dated April 28, 2020. This PRR covers the time period between March 30, 2020 and March 29, 2021.

The Site was redeveloped and transformed from vacant industrial property to a passive park called the Fall Brook Park. The redevelopment activities were performed in accordance with the Site Management Plan (SMP) and associated NYSDEC Notifications and were documented in previous periodic review reporting.

There were no activities conducted during the Reporting Period that involved breach of the existing cover systems on the Site or otherwise required notification and documentation pursuant to the NYSDEC-approved SMP. As documented in this PRR, the Site is in compliance with the Institutional and Engineering Controls required under the SMP.

Please do not hesitate to contact us should you have any questions regarding this report.

Sincerely yours,
HALEY & ALDRICH OF NEW YORK

James E. Siegfried, P.E.
Senior Project Manager

Enclosures

c: Corning Incorporated; Attn: Chris Gabel

\\haleyaldrich.com\share\roc_common\Projects\33123\2020 PRR\2020 Draft PRR\2021-0427_Tioga_Ave_BCP-PRR_F.docx

Executive Summary

The Tioga Avenue Brownfield Site # C851031 (the Site) is a 14.18-acre parcel located at the northwest corner of Tioga Avenue and Steuben Street in Corning, NY. The Site was investigated and remediated in accordance with Brownfield Cleanup Agreement (BCA) Index # B8-0767-08-01, which was executed between Corning Property Management Corporation and Corning Incorporated (collectively Corning) and New York State Department of Environmental Conservation (NYSDEC) on August 22, 2008. The NYSDEC Brownfield Cleanup Program (BCP) Certificate of Completion for this Site was issued on April 18, 2012.

Corning redeveloped the BCP Site in 2012 and 2013 to repurpose it from vacant industrial property to a passive community park with green space, concrete walks, and associated amenities (the Redevelopment Project). Fall Brook Park opened on October 18, 2013 for use by the community. The Redevelopment Project was conducted under the BCP based on NYSDEC-approved work plans and reports for the investigation and remediation of the Site contaminants.

Historic fill on the Site contains Contaminants of Concern (COCs) above applicable Soil Cleanup Objectives (SCOs) consisting of arsenic and lead. The Site remedy requires that a cover system be maintained, as described in the Site Management Plan (SMP), to prevent human or environmental exposure to contaminants that may be present above the applicable Restricted Commercial land use SCOs for arsenic and lead.

There were no activities conducted during the Reporting Period that involved breach of the existing cover systems on the Site or otherwise required notification and documentation pursuant to the NYSDEC-approved SMP. As documented in this PRR, the Site is in compliance with the Institutional and Engineering Controls required under the SMP. No change in frequency of the PRR submittals is recommended and on-going site management continues to be required.

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List of Figures

1. Site Overview

The Tioga Avenue Brownfield Site # C851031 (the Site) is a 14.18-acre parcel located at the northwest corner of Tioga Avenue and Steuben Street in Corning, NY. The Site property is currently owned by Corning Property Management Corporation, a wholly owned subsidiary of Corning Incorporated (collectively Corning) and was used (1929-2002) for glass manufacturing and related support operations that were referred to as the "Fall Brook" plant. Manufacturing operations of the Fall Brook plant were discontinued in 2002, demolition of the buildings and facilities was completed in 2007, demolition of the wastewater treatment facility was completed in 2012, and all wastewater and stormwater conveyed from the Brownfield Cleanup Program (BCP) site is now conveyed to the Corelle Brands treatment facility as of 2017.

The Site is situated within an area of mixed residential, commercial and industrial development. The Site is contiguous (northeastern property boundary) with property owned by Corelle Brands (formerly World Kitchen) which is not affiliated with Corning Incorporated. The Corelle Brands facility is an active manufacturing operation producing consumer glassware products and uses/occupies portions of the BCP Site for its ongoing operations.

The nature and extent of contamination prior to remediation with respect to historic fill, alluvial soil, and groundwater is summarized as follows:

- **Historic Fill** – Historic fill on the Site contains Contaminants of Concern (COCs) above applicable Soil Cleanup Objectives (SCOs) for this Site consisting of arsenic and lead within historic fill. The Site remedy requires that a cover system be maintained as described in the SMP to prevent human or environmental exposure to contaminants that may be present above the applicable Restricted Commercial land use SCOs for arsenic and lead.

- **Alluvial Soil** – Undisturbed native soil beneath the historic fill on the Site is comprised of poorly-graded to well-graded sand with varying amounts of gravel and a relatively low percentage of silt. Analysis of this media did not identify the presence of contaminants, except possibly in the former petroleum storage areas where aesthetic petroleum conditions could be present.

- **Groundwater** – Groundwater on the Site is present at approximate depths ranging from 17 to 25 feet below ground surface and is situated below the historic fill on the Site. Groundwater is not adversely affected (i.e. as compared to NYSDEC screening criteria) by the presence of historical fill; however, degraded petroleum residuals have been observed/detected in shallow groundwater in limited areas. The SMP provides additional information regarding these conditions. The SMP also identifies the Institutional Controls required to address these conditions; essentially that future potable use of groundwater at the Site is not permitted without treatment.

The Site was investigated and remediated in accordance with Brownfield Cleanup Agreement (BCA) Index # B8-0767-08-01, which was executed between Corning and New York State Department of Environmental Conservation (NYSDEC) on August 22, 2008. To complete the Track 4 Site remedy, site cover needed to be upgraded on less than four percent of the Site. A Change of Use Notification was submitted to NYSDEC in 2011 to perform the needed cover upgrades. The work was completed in late 2011 and, in early 2012, the Final Engineering Report (FER) was completed documenting the work and that the necessary Site engineering controls were in place and effect. Following the FER, the Site

Management Plan (SMP) was completed, the Environmental Easement was filed, and the Certificate of Completion was issued, all in 2012.

Corning redeveloped the BCP Site during 2012 and 2013 to repurpose it from vacant industrial property to a passive community park with green space, concrete walks, and associated amenities (the Redevelopment Project). The Redevelopment Project was conducted under the BCP based on NYSDEC-approved work plans and reports for the investigation and remediation of the Site contaminants.

The completed Track 4 Site remedy, as described in the SMP, currently consists of the following elements:

- Cover systems approved by NYSDEC to eliminate potential for direct contact with contaminants remaining on the Site: these are engineering controls.
- A specifically identified portion of the Site contains a low permeability ground cover system, or other remedy as approved by the NYSDEC, to reduce infiltration of surface/stormwater through historic fill: this is an engineering control.
- Institutional Controls in the form of an Environmental Easement limiting Site use to only future commercial or industrial use and prohibiting any future potable use of groundwater from the Site.
- Development and implementation of a Site Management Plan describing actions needed to maintain the cover systems over time or to be taken in the event the cover systems are ever removed as part of future development or other activity.
- Recording the Environmental Easement at the office of the Steuben County Clerk.

2. Remedy Performance, Effectiveness, and Protectiveness

The remedy incorporates defined cover systems as the sole type of engineering control on the Site as described in the SMP. There were and are no mechanical systems, groundwater pumping or soil vapor/subslab depressurization systems which were selected as part of the Site remedy.

Table I. Remedy Effectiveness

Remedy Element	Effectiveness
Engineering Control - Site cover systems	In place and effect.
Engineering Control – Site cover systems in designated 'low permeability cover system' areas	In place and effect.
Institutional Controls – Site use restricted to commercial and industrial uses and no use of groundwater without treatment.	In place and effect.
Site Management Plan	In place and effect.
Environmental Easement	In place and effect.

The Site remedy elements are all in place, are operating effectively and are providing the intended effectiveness to achieve the remedial goals at the Site.

3. IC/EC Plan Compliance and Certification

3.1 IC/EC REQUIREMENTS AND COMPLIANCE

The Site IC/ECs are identified on the IC/EC Certification Form included in Appendix A. That form, provided by NYSDEC, lists six Institutional Controls and one Engineering Control for the Site, which are presented in Table II below. Detailed descriptions of the controls are presented in Section 2.3 of the SMP; a summary is given in Table II.

Table II. Institutional and Engineering Controls

INSTITUTIONAL CONTROLS	DESCRIPTION	OBJECTIVE	EVALUATION OF PERFORMANCE
Ground Water Use Restriction	Potable use of groundwater without treatment is prohibited.	Preclude consumption of groundwater potentially containing residual contaminants.	Effective. Groundwater is not used for potable purposes at the Site. Groundwater is used for irrigation in the Passive Park.
Institutional Control / Engineering Control Plan	The Institutional and Engineering controls for the Site are listed within this table and are presented in Section 2.3 of the SMP.	ICs and ECs are followed so that the Site is managed according to Part 375, DER-10 and the SMP.	Effective. The Environmental Easement remains in force. Cover systems are in place per the SMP.
Land Use Restriction	Restrict development of the Site to Industrial or Commercial uses.	Site use is restricted consistent with the Site Remedy and the SMP.	Effective. Site use is consistent with commercial or industrial uses according to Part 375, DER-10, and the SMP.
Operations & Maintenance Plan	The O&M Plan is presented in Section 4.0 of the SMP. The Site remedy does not rely on any mechanical systems; therefore, O&M of such components is not relevant.	Maintain the Site Engineering Control (cover systems) to preclude contact with Site soil potentially containing residual contaminants.	Effective. Cover systems are in place and were maintained per the SMP.
Site Management Plan	The SMP is integral to the Environmental Easement placed on the Site.	The SMP prescribes measures to be followed for compliance with the Environmental Easement.	Effective. This Periodic Review Report documents compliance with the SMP.
Soil Management Plan	The Excavation Work Plan (EWP) is contained in Appendix C of the SMP. It describes procedures for performing intrusive Site earthwork using methods protective of human health and the environment.	Minimize risks to health, safety, and the environment during intrusive activities at the Site.	Effective. This Periodic Review Report documents compliance with the EWP for the reporting period.
ENGINEERING CONTROL			

INSTITUTIONAL CONTROLS	DESCRIPTION	OBJECTIVE	EVALUATION OF PERFORMANCE
Cover Systems	The Site requires various types of cover including, but not limited to concrete, asphalt, clean soil, buildings, and low permeability cover as described in the SMP.	Preclude contact with Site soil potentially containing residual contaminants.	Effective. Site inspections by the QEP confirm the cover systems are in place in accordance with the SMP.

No change in frequency of the PRR submittals is recommended and on-going site management continues to be required.

3.2 IC/EC CERTIFICATION

The completed and signed IC/EC Certification Form is included in Appendix A.

4. Monitoring Plan Compliance Report

The environmental media monitoring program is presented in Section 3.3 of the SMP. There is no routine monitoring of air, surface water, groundwater, or soil required for the Site. Environmental monitoring only is needed during intrusive work at the Site per the Site Management Plan. As previously stated, there were no activities conducted during the Reporting Period that involved breach of the existing cover systems on the Site or otherwise required monitoring compliance pursuant to the SMP.

4.1 ANNUAL SITE INSPECTION

Haley & Aldrich conducted an annual site inspection of the Tioga Avenue BCP Site on January 13, 2021. During the inspection it was observed that the area of snowplow disturbance identified in the 2019 inspection, on the eastern side of the Park, was repaired and grass cover restored. However, two small areas of shallow topsoil disturbance were noted in the southern lawn area of the Park, adjacent to the sidewalk. The estimated 5ft. long areas of soil were disturbed by a snowplow and displaced the soil cover approximately 2 to 4 inches. As recommended in the Annual Inspection Form, to prevent the loss of cover soils, the area of disturbance will be seeded when weather permits. The Annual Inspection Form is attached in Appendix B.

4.2 GROUNDWATER MONITORING

A groundwater well associated with the former Fallbrook Plant operations designated as Well FB#1 is located on the east side of the Park as shown on Figure 1. This well was reutilized in the construction of the Passive Park as an irrigation supply well for the park turf grass and landscape areas. The well is not used as a source of potable water.

The City of Corning issued a well permit to Corning Incorporated dated June 24, 2017 for use as an irrigation well. A copy of the permit is contained in Appendix C. The well was not in operation in 2018 and therefore was not sampled. As required by the City of Corning, Corning Incorporated utilized Adirondack Environmental Services, Inc. to collect and analyze a sample from Well FB#1. Adirondack performed the well sampling on 7 August 2019 and 9 September 2020 for sample analysis by EPA 524.2 – Purgeable Organic Compounds. Results of the sampling were non-detect for all reported compounds for the 2019 event and for the 2020 event, with the exception of toluene being detected at 17.1 µg/L. The FB#1 irrigation well was not in use in 2020, and the sample that was obtained from the well was collected without proper purging of the well. The presence of Toluene in the sample is an outlier and is suspect. A resampling of the well is scheduled for mid-2021; subsequent results will be provided to the NYSDEC. The laboratory analytical report is included in Appendix C.

4.3 MONITORING PLAN CONCLUSIONS

Inspection of the Site was conducted under the requirements of the SMP. Routine monitoring of air, surface water, groundwater, or soil are not required in the SMP. Monitoring is required under the Excavation Work Plan if ground intrusive activities occur. No deficiencies in the monitoring plan were noted.

5. Operation & Maintenance Plan Compliance Report

5.1 O&M PLAN

The O&M Plan is presented in Section 4.0 of the SMP. The Site remedy does not rely on any mechanical systems; therefore, O&M of such components is not relevant. The Site cover systems are described in the SMP. Inspection of the Site cover systems takes place annually. The results of the inspection appear in the PRR covering that period.

5.2 SUMMARY OF O&M COMPLETED DURING REPORTING PERIOD

The area of shallow snowplow topsoil disturbance previously identified during the 2019 Site inspection on the eastern side of the Park was repaired and grass cover restored.

6. Conclusions & Recommendations

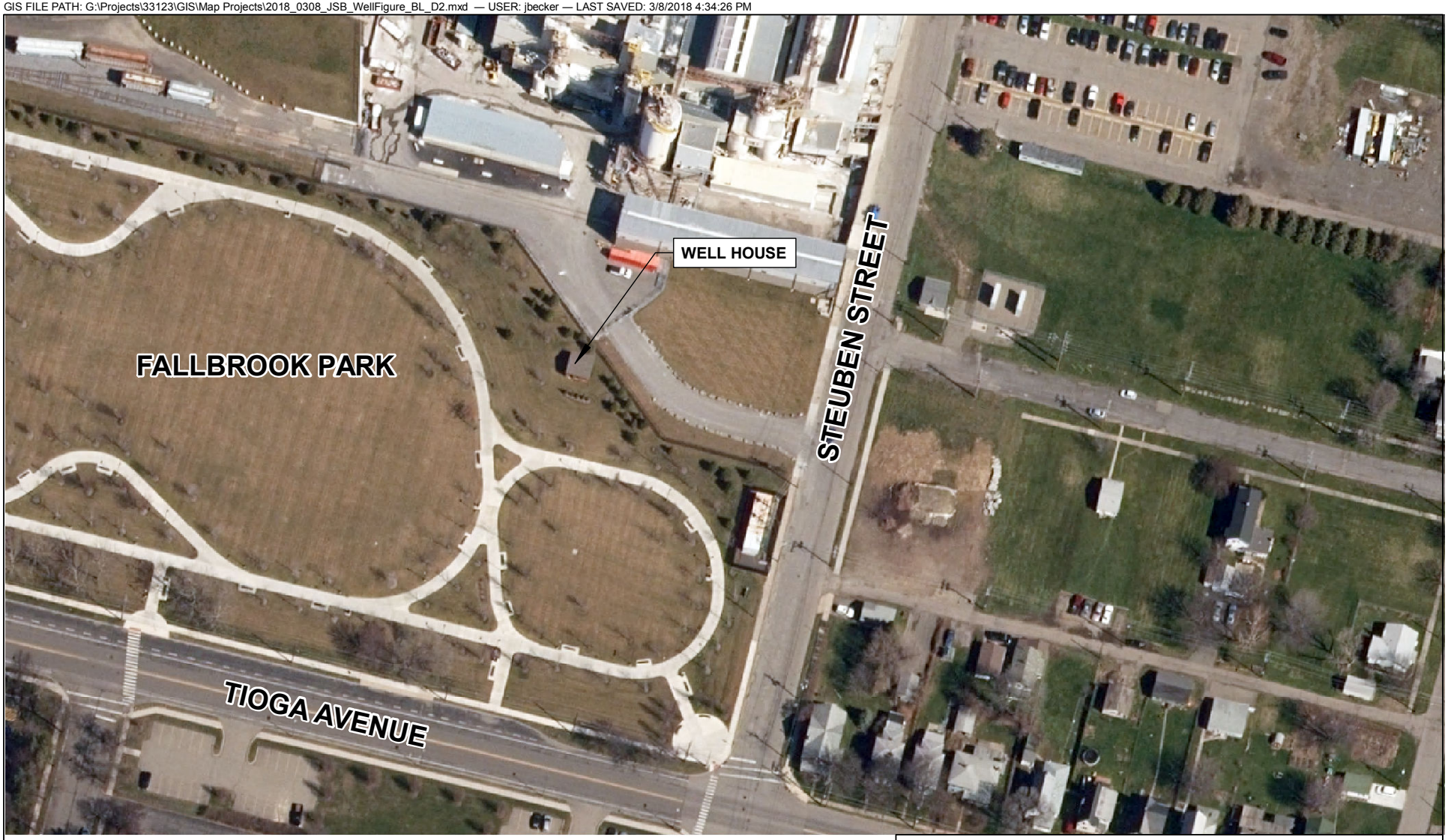
During the Reporting Period the Tioga Ave BCP Site was in compliance with the SMP, all IC/EC's, Monitoring Plan requirements, and O&M Plan requirements for the Site. No excavation or removal of material occurred on the Site during the Reporting Period.

All repair work has been successfully completed to previously identified Site cover deficiencies and the Site remedy elements are all in place, operating effectively, and providing the intended effectiveness to achieve the remedial goals at the Site.

No change in the frequency of the PRR submittals is recommended and on-going site management continues to be required.

FIGURES

GIS FILE PATH: G:\Projects\33123\GIS\Map Projects\2018_0308_JSB_WellFigure_BL_D2.mxd — USER: jbecker — LAST SAVED: 3/8/2018 4:34:26 PM



NOTES

1. AERIAL IMAGERY COURTESY OF NYS CLEARINGHOUSE APRIL 2016

NOT TO SCALE

HALEY ALDRICH

2017 SIP CONSTRUCTION PROJECT
TIOGA AVENUE BCP SITE #C851031

LOCATION OF
IRRIGATION WELL FB#1

MARCH 2018

FIGURE 1

APPENDIX A

Institutional and Engineering Controls Certification Form

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

Site Details **Box 1**

Site No. C851031

Site Name Tioga Avenue Site

Site Address: East Tioga Avenue Zip Code: 14831
City/Town: Corning
County: Steuben
Site Acreage: 14.2

Reporting Period: March 30, 2020 to March 29, 2021

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

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

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

_____ _____
Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

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

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

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

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

SITE NO. C851031 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
318.10-01-01.100	Corning Property Management Corporation	Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan O&M Plan IC/EC Plan

- Prohibition potable water use
- Soil cover over 5 acres
- Compliance with a soils management plan
- Use must be maintained as commercial or industrial
- Vapor evaluation & mitigation if occupied structures constructed
- Management of remaining contaminated soils below cover

Box 4

Description of Engineering Controls

Parcel	Engineering Control
318.10-01-01.100	Cover System

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

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

YES	NO
☒	☐

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

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

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

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

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

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

YES	NO
☒	☐

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

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

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. C851031

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 Linda E. Jolly (print name) at One Riverfront Plaza, Corning, NY (print business address),

am certifying as Owner (Owner or Remedial Party)

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

L E Jolly

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

April 27, 2021
Date

IC/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 James E. Siegfried, P.E. (print name) at Haley & Aldrich of New York, 200 Town Centre Dr., Rochester, NY 14623 (print business address),

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

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		4/27/2021

APPENDIX B

Annual Site Inspection Form

SMP - ANNUAL SITE INSPECTION

PROJECT	Tioga Avenue BCP Site C851031	**Prepared By:** Roger Wilcox	**Routine/Nonroutine Inspection:** Routine Annual
LOCATION	Corning, New York	**Company:** Haley & Aldrich of New York	**Weather:** 34 degrees, cloudy
DATE(s)	1/13/2021	**Title:** Senior Technical Specialist	**Other Noteworthy Conditions:** None

See Attached Photo Log.

1. SITE COVER - SOIL, CONCRETE, ASPHALT, STRUCTURES

A. Visual Inspection and Integrity Observations:

A few small areas of disturbance were noted in the lawn area of the southern side of the Park, adjacent to the sidewalk. The disturbance areas were estimated to be less than 5 ft. long, and appeared to be disturbed by a snow plow and penetrated into the soil cover approximately 2-4 inches.

Based on the monitoring performed including my own site visit, the site cover is in place and effective.

B. Maintenance, repairs, or changes to site cover completed since previous inspection(s):

C. Deficiencies noted, if any:

Disturbed soils from snow plowing activities as noted in Section A.

D. Recommended actions:

Repair the disturbed soils to restore cover when weather permits to re-establish grass cover.

2. OTHER SITE OBSERVATIONS (include any incidents, repairs, maintenance, or other observations affecting site management plan and reporting):

None.

3. SITE / OWNER PERSONNEL CONTACTED:

a. Chris Gabel, Corning Incorporated.

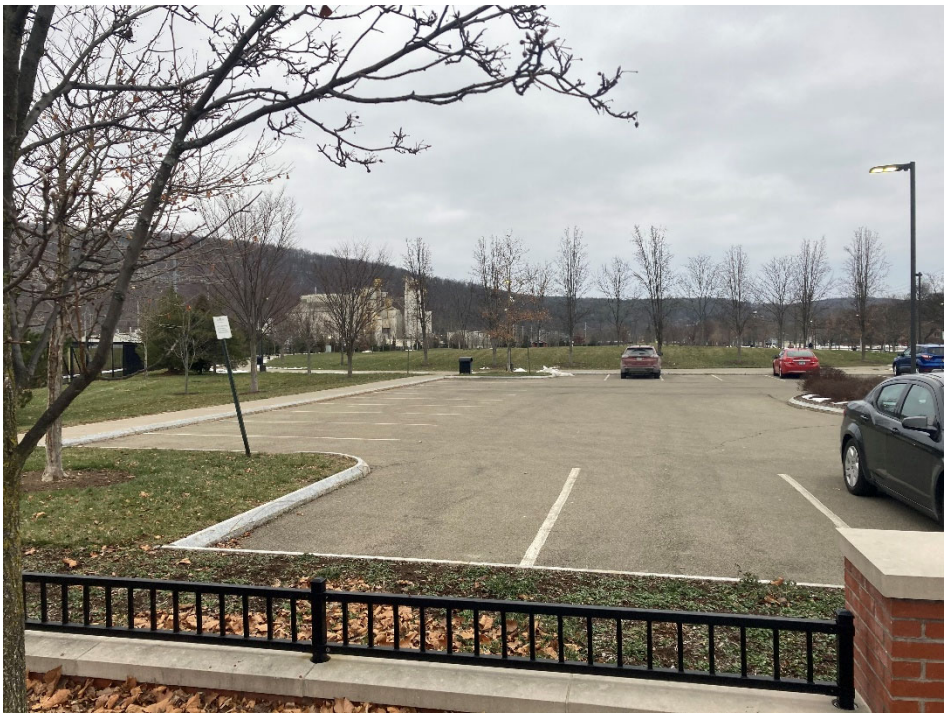


Photo 1: Asphalt Cover.

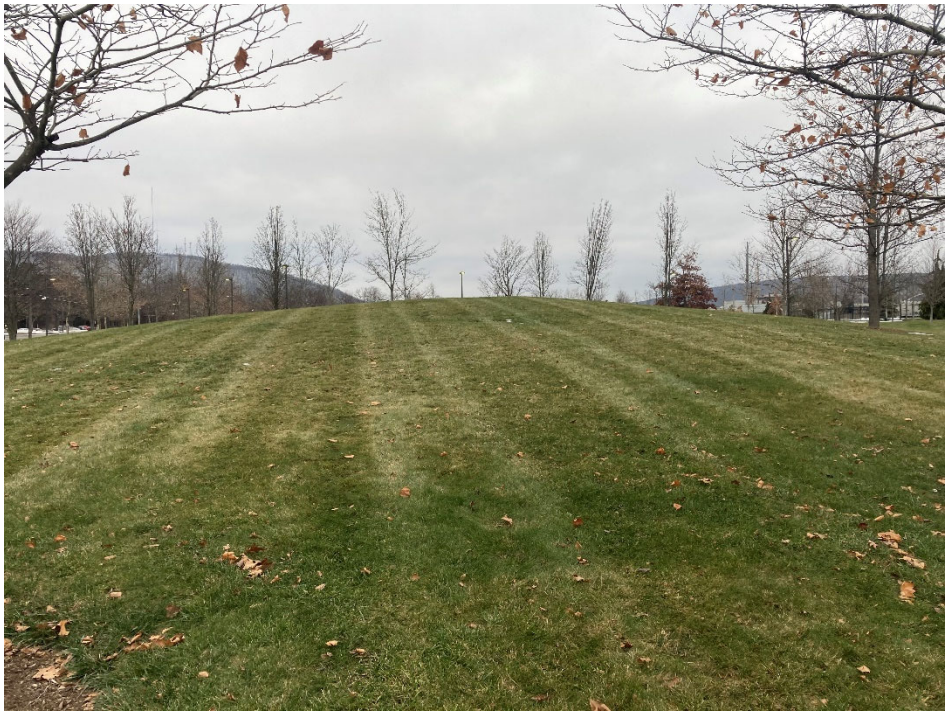


Photo 2: Passive Park Cover.

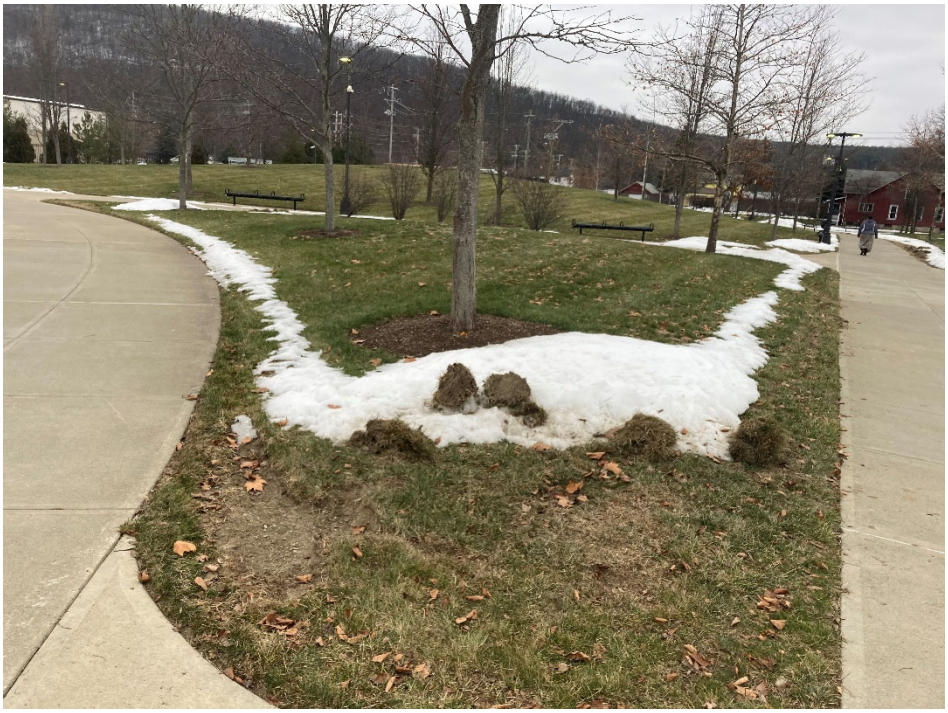


Photo 3: Rutting from snowplows in Soil Cover around park sidewalk.

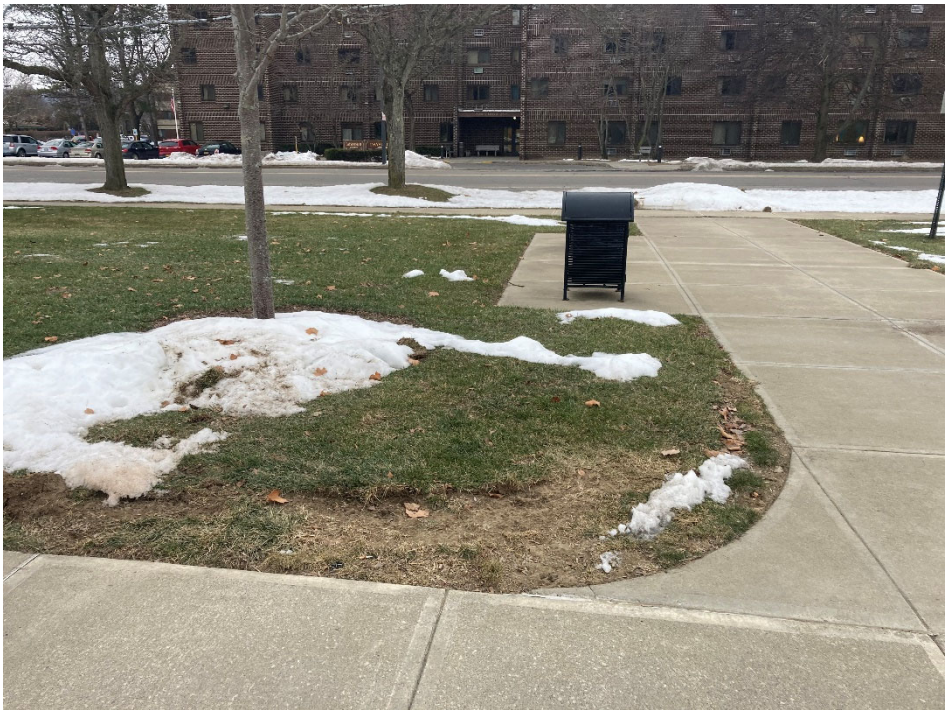


Photo 4: Rutting from snowplows in Soil Cover around park sidewalk.

APPENDIX C

City of Corning Well Permit and Sample Results

CITY OF CORNING
500 NASSER CIVIC CENTER PLAZA
CORNING, NY 14830

PHONE: (607) 962-0340
FAX: (607) 962-0681

REGISTRATION RENEWAL FOR AN EXISTING WELL PERMIT

OWNER INFORMATION

Property Owner: Corning Incorporated
Address: One Riverfront Plaza, MP-HQ-E1
Corning, NY 14831
Contact Person: Colleen Krysiak
Phone: 974-0246
Application Date: June 24, 2017

WELL SITE LOCATION

Street Address: Fallbrook Park **Tax Map Number:** 318.010-01-020.000

GPS Location: _____ **Elev. At Top of Casing:** _____

WELL IDENTIFICATION NUMBER

Number: 1 – F

WELL USE

Intended use: Irrigation

WATER QUALITY MONITORING REQUIREMENTS

All water quality testing shall be performed by NYS certified laboratories and shall comply with reporting limits established in Subpart 5.1 of New York State Sanitary Code. The testing schedule below constitutes the minimum testing requirements for the life of the permit. The City of Corning reserves the right to increase testing parameters and frequency.

INORGANIC & PHYSICAL CHARACTERISTICS	FREQUENCY
VOC'S:	X
SOC'S GROUP I:	
SOC'S GROUP II:	
Nitrates:	
Other:	

REMARKS: If checked, requires additional testing as indicated. Copies of any and all test results required by other governmental agencies shall be supplied to the City.

Approved by: Brad Jackel **Expiration Date:** 7/20/2022

The City of Corning has the right to revoke this permit and the use of this well if continued operation poses a health risk by affecting the quantity and/or quality of the City of Corning's water supply. This well must remain consistent with the Water Well Construction Rules and Regulations.

Experience is the solution
314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

February 09, 2021

Danielle Carlin
Corning, Inc.
1 River Front Plaza
Mt-HQ-01-E08
Corning, NY 14831

TEL: (607) 974-6923

Work Order No: 200910085
PO#: 1007P-0000095439

RE: Downtown Wells

Dear Danielle Carlin:

Adirondack Environmental Services, Inc received 10 samples on 9/10/2020 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709

Monica Higdon
Laboratory Manager

Adirondack Environmental Services, Inc — CASE NARRATIVE

Corning, Inc.

Downtown Wells

Date: *09-Feb-21*

Lab WorkOrder: **200910085**

The sampling was performed in accordance with the AES field sampling procedures and/or the client specified sampling procedures. Sample containers were supplied by Adirondack Environmental Services.

This report has been revised to update the method on the COC. Analysis of volatiles was by EPA 524.2, not EPA 502.

Definitions - RL: Reporting Limit DF: Dilution factor

Qualifiers:

ND : Not Detected at reporting limit	C: CCV below acceptable Limits
J: Analyte detected below quantitation limit	C+: CCV above acceptable Limits
B: Analyte detected in Blank	S: LCS Spike recovery is below acceptable limits
X : Exceeds maximum contamination limit	S+: LCS Spike recovery is above acceptable limits
H: Hold time exceeded	Z: Duplication outside acceptable limits
N: Matrix Spike below acceptable limits	T : Tentatively Identified Compound-Estimated
N+: Matrix Spike is above acceptable limits	E :Above quantitation range-Estimated

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

Adirondack Environmental Services, Inc

Date: *09-Feb-21*

CLIENT: Corning, Inc.
Work Order: **200910085**
Reference: Downtown Wells /
PO#: 1007P-0000095439

Client Sample ID: Well #1 FB
Collection Date: 9/9/2020 9:37:00 AM
Lab Sample ID: 200910085-010
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS - EPA 524.2						Analyst: **SMD**
1,1,1,2-Tetrachloroethane	**ND**	0.5	S	µg/L	1	9/15/2020 5:01:00 PM
1,1,1-Trichloroethane	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
1,1,2,2-Tetrachloroethane	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
1,1,2-Trichloroethane	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
1,1-Dichloroethane	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
1,1-Dichloroethene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
1,1-Dichloropropene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
1,2,3-Trichlorobenzene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
1,2,3-Trichloropropane	**ND**	0.5	S	µg/L	1	9/15/2020 5:01:00 PM
1,2,4-Trichlorobenzene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
1,2,4-Trimethylbenzene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
1,2-Dichlorobenzene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
1,2-Dichloroethane	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
1,2-Dichloropropane	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
1,3,5-Trimethylbenzene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
1,3-Dichlorobenzene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
1,3-Dichloropropane	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
1,4-Dichlorobenzene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
2,2-Dichloropropane	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
2-Chlorotoluene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
4-Chlorotoluene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
4-Isopropyltoluene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Benzene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Bromobenzene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Bromochloromethane	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Bromodichloromethane	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Bromoform	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Bromomethane	**ND**	0.5	S	µg/L	1	9/15/2020 5:01:00 PM
Carbon tetrachloride	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Chlorobenzene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Chloroethane	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Chloroform	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Chloromethane	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
cis-1,2-Dichloroethene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
cis-1,3-Dichloropropene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Dibromochloromethane	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Dibromomethane	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Dichlorodifluoromethane	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Ethylbenzene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Hexachlorobutadiene	**ND**	0.5	S	µg/L	1	9/15/2020 5:01:00 PM

Adirondack Environmental Services, Inc

Date: *09-Feb-21*

CLIENT: Corning, Inc.
Work Order: **200910085**
Reference: Downtown Wells /
PO#: 1007P-0000095439

Client Sample ID: Well #1 FB
Collection Date: 9/9/2020 9:37:00 AM
Lab Sample ID: 200910085-010
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS - EPA 524.2						Analyst: **SMD**
Isopropylbenzene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
m,p-Xylene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Methyl tert-butyl ether	**ND**	2.0		µg/L	1	9/15/2020 5:01:00 PM
Methylene chloride	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
n-Butylbenzene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
n-Propylbenzene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
o-Xylene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
sec-Butylbenzene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Styrene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
tert-Butylbenzene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Tetrachloroethene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Toluene	**17.1**	0.5	X	µg/L	1	9/15/2020 5:01:00 PM
trans-1,2-Dichloroethene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
trans-1,3-Dichloropropene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Trichloroethene	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Trichlorofluoromethane	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Vinyl chloride	**ND**	0.5		µg/L	1	9/15/2020 5:01:00 PM
Surr: 1,2-Dichlorobenzene-d4	**88.8**	82.8-118		%REC	1	9/15/2020 5:01:00 PM
Surr: 4-Bromofluorobenzene	**95.2**	81.7-126		%REC	1	9/15/2020 5:01:00 PM

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EXPERIENCE IS THE SOLUTION

CHAIN OF CUSTODY RECORD

AES Work Order#: 200910085

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: Corning, Inc	Address:
Send Report to: Danielle Gorton/Olivia Stout	Project Name (Location): Downtown Wells
Client Phone No:	PO #:
Client Fax No:	Samplers Name: K. Amba
	Samplers Signature:

AES Sample ID	Client Sample ID:	Date Sampled	Time A=am P=pm		Sample Type Matrix	C	G	# of Cont's	Analysis
001	Well #4	9/8/20	0815	A/P	GW		X	2	EPA ~~502.2~~ mdh 524.2
002	Well #1		0824	A/P					
003	Well #2		0837	A/P					
004	Well #5		0851	A/P					
005	Well #3		0905	A/P					
006	Well #5A	9/9/20	0803	A/P					
007	Well #9A		0820	A/P					
008	Well #8A		0831	A/P					
009	Well #6A		0851	A/P					
010	Well #1 FB		0937	A/P					
				A/P					
				A/P					

Shipment Arrived Via:
FedEx UPS Client AES Other:_____

Turnaround Time Requested:
☑ Normal

Special Instructions/Remarks:
HP Wells (#4, 1, 2, 5, 3)
HQ Side Wells (#5A, #9A, 8A, 6A, 1FB)

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	**Received for Laboratory by:**	Date	Time
Mark G		9/10/20	5:00pm

Sample Temperature
Ambient Chilled
Chilling Process begun
Notes: 3°C

Properly Preserved
Y N
Notes:

Received Within Holding Times
Y N
Notes:

Demo
200910085

Adirondack Environmental Services, Inc.

Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

August 22, 2019

Colleen D. Krysiak
Corning, Inc.
1 River Front Plaza
Mt-HQ-01-E08
Corning, NY 14831

TEL: (607) 974-0246

Work Order No: 190808063
PO#: 1007P-0000088380

RE: Downtown Wells
Downtown Vault Wells

Dear Colleen D. Krysiak:

Adirondack Environmental Services, Inc received 9 samples on 8/8/2019 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709

Monica Higdon
Laboratory Manager

Adirondack Environmental Services, Inc CASE NARRATIVE

CLIENT:	Corning, Inc.	**Date:**	*22-Aug-19*
Project:	Downtown Wells		
Lab Order:	190808063		

The sampling was performed in accordance with the AES field sampling procedures and/or the client specified sampling procedures. Sample containers were supplied by Adirondack Environmental Services.

Definitions - RL: Reporting Limit DF: Dilution factor

Qualifiers:

ND : Not Detected at reporting limit	C: CCV below acceptable Limits
J: Analyte detected below quantitation limit	C+: CCV above acceptable Limits
B: Analyte detected in Blank	S: LCS Spike recovery is below acceptable limits
X : Exceeds maximum contamination limit	S+: LCS Spike recovery is above acceptable limits
H: Hold time exceeded	Z: Duplication outside acceptable limits
N: Matrix Spike below acceptable limits	T : Tentatively Identified Compound-Estimated
N+: Matrix Spike is above acceptable limits	E :Above quantitation range-Estimated

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

Adirondack Environmental Services, Inc

Date: *22-Aug-19*

CLIENT: Corning, Inc.
Work Order: **190808063**
Reference: Downtown Wells / Downtown Vault Wells
PO#: 1007P-0000088380

Client Sample ID: Fallbrook Park
Collection Date: 8/7/2019
Lab Sample ID: 190808063-001
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS - EPA 524.2						Analyst: **SMD**
1,1,1,2-Tetrachloroethane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,1,1-Trichloroethane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,1,2,2-Tetrachloroethane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,1,2-Trichloroethane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,1-Dichloroethane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,1-Dichloroethene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,1-Dichloropropene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,2,3-Trichlorobenzene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,2,3-Trichloropropane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,2,4-Trichlorobenzene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,2,4-Trimethylbenzene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,2-Dichlorobenzene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,2-Dichloroethane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,2-Dichloropropane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,3,5-Trimethylbenzene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,3-Dichlorobenzene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,3-Dichloropropane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
1,4-Dichlorobenzene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
2,2-Dichloropropane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
2-Chlorotoluene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
4-Chlorotoluene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
4-Isopropyltoluene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Benzene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Bromobenzene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Bromochloromethane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Bromodichloromethane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Bromoform	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Bromomethane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Carbon tetrachloride	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Chlorobenzene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Chloroethane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Chloroform	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Chloromethane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
cis-1,2-Dichloroethene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
cis-1,3-Dichloropropene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Dibromochloromethane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Dibromomethane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Dichlorodifluoromethane	**ND**	0.5	S	µg/L	1	8/15/2019 1:30:00 AM
Ethylbenzene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Hexachlorobutadiene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM

Adirondack Environmental Services, Inc

Date: *22-Aug-19*

CLIENT: Corning, Inc.
Work Order: **190808063**
Reference: Downtown Wells / Downtown Vault Wells
PO#: 1007P-0000088380

Client Sample ID: Fallbrook Park
Collection Date: 8/7/2019
Lab Sample ID: 190808063-001
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS - EPA 524.2						Analyst: **SMD**
Isopropylbenzene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
m,p-Xylene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Methyl tert-butyl ether	**ND**	2.0		µg/L	1	8/15/2019 1:30:00 AM
Methylene chloride	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
n-Butylbenzene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
n-Propylbenzene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
o-Xylene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
sec-Butylbenzene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Styrene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
tert-Butylbenzene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Tetrachloroethene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Toluene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
trans-1,2-Dichloroethene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
trans-1,3-Dichloropropene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Trichloroethene	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Trichlorofluoromethane	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Vinyl chloride	**ND**	0.5		µg/L	1	8/15/2019 1:30:00 AM
Surr: 1,2-Dichlorobenzene-d4	**95.3**	82.8-118		%REC	1	8/15/2019 1:30:00 AM
Surr: 4-Bromofluorobenzene	**96.6**	81.7-126		%REC	1	8/15/2019 1:30:00 AM

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EXPERIENCE IS THE SOLUTION

CHAIN OF CUSTODY RECORD

AES Work Order#: 190808063

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: **Corning**	Address:	
Send Report to: **Colleen D. Krysiak,**	Project Name (Location): **Downtown Vault Wells**	Samplers Name: K. Ambra
Client Phone #:	Client PO #:	Samplers Signature:
Client Fax #:		

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=am P=pm	Sample Type: Matrix	C	G	Number of Cont's	Analysis
001	Fallbrook Park	8/7/19	0800 AP	GW		X	2	EPA 502.2
002	9A		0825 AP					
003	6A		0835 AP					
004	8A		1023 AP					
005	5A		0901 AP					
006	HP3		0930 AP					
007	HP4		0938 AP					
008	HP1		0947 AP					
009	HP2		0957 AP					
			AP					
			AP					
			AP					
			AP					
			AP					
			AP					
			AP					

Shipment Arrived Via:
FedEx UPS Client AES Other:_____

Special Instructions/Remarks:
pH _____ s.u. KMA

Turnaround Time Requested:
1 Day 3 Day Normal
2 Day 5 Day

NOTE: Samples received after 3:30pm are considered next business day.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
				8/8/19	13:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date 8/8/19	Time 15:50	Received for Laboratory by:	Date 8/8/19	Time 4:21

Sample Temperature
Ambient ~ Chilled
Notes: 6°C

Properly Preserved
Y N
Notes:

Received Within Holding Times
Y N
Notes:

Demo
190808063

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TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

(a) Neither **Adirondack Environmental Services, Inc.,** nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.

(b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.

(c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.

(d) In no event shall **Adirondack Environmental Services, Inc.,** its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.

(e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**

(f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.

(g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.