

From: [Steve Panter](#)
To: [Spellman, John \(DEC\)](#)
Cc: [Scott Pryne](#); [Linda Miranda](#); [Mark Hutson](#); joel@flemingleeshue.com
Subject: AFFCO PRR
Date: Monday, August 2, 2021 7:37:55 AM
Attachments: [AFFCO PRR 2021 final 8 2 21.pdf](#)

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

John,

Attached please find the 2021 annual Periodic Review Report for the referenced site. Everything is in order and there were no issues with the site controls.

Please contact me if you have any questions or comments.

Thank you,

Steve

AFFCO Site Management Plan
New Windsor, NY
Site No. 336036

American Felt & Filter Company, Inc.
Company (AFFCO)
NEW WINDSOR, NEW YORK

**ANNUAL PERIODIC REVIEW REPORT
AND ENGINEERING CERTIFICATION
Site No. 336036**

Period: August 2, 2020 – August 2, 2021

Prepared by

Fleming Engineering

158 West 29th Street, 9th Floor
New York, NY 10001
(212) 675-3225

August 2021

AFFCO Site Management Plan
New Windsor, NY
Site No. 336036

TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	SITE OVERVIEW	3
2.1	Site Location and Description	3
2.2	Geology and Hydrological Conditions.....	3
2.2.1	Geological Conditions	3
2.2.2	Hydrogeology.....	3
2.3	Nature and Extent of Contamination.....	3
2.3.1	Soil Contamination.....	3
2.3.2	Groundwater Contamination.....	4
2.4	Site Cleanup.....	5
3.0	REMEDY PERFORMANCE, EFFECTIVENESS, & PROTECTIVENESS	6
3.1	Post in situ Chemical Oxidation Soil Results.....	6
3.2	Post Remedial Excavation Soil Results	6
3.3	Post Treatment Groundwater Results.....	6
4.0	IC/EC COMPLIANCE REPORT	8
4.1	Engineering Controls	8
4.1.1	Sub-slab Depressurization System	8
4.1.2	Protective Soil Cover.....	8
4.2	Institutional Controls.....	8
5.0	MONITORING PLAN COMPLIANCE REPORT	10
6.0	OPERATION & MAINTAINANCE (O&M) PLAN COMPLIANCE REPORT	11
7.0	INVASIVE WORK.....	12
8.0	OVERALL CONCLUSIONS AND RECOMMENDATIONS	13
9.0	CERTIFICATION	14

AFFCO Site Management Plan
New Windsor, NY
Site No. 336036

LIST OF FIGURES

Figure 1	Site Layout & Environmental Easement
Figure 2	Site Plan
Figure 3	Post-Treatment Soil Sampling Locations and Results Summary
Figure 4	Post-Excavation Soil Sampling Results
Figure 5	Sub-slab Depressurization As-built

LIST OF TABLES

Table 1	Summary of Pre-Remedy VOCs in Soil, µg/kg (in text)
Table 2	Summary of Pre-Remedy VOCs in Groundwater, µg/L (in text)
Table 3	Post-treatment Groundwater Results in µg/L, April 2013 (in text)
Table 4	Post-treatment Groundwater Results in µg/L, June 2019 (in text)

LIST OF APPENDICES

Appendix A	Environmental Easement Metes and Bounds Description
Appendix B	Site Cover Inspection Form & Photographs
Appendix C	Reporting Period Semiannual Groundwater Monitoring Reports
Appendix D	Institutional and Engineering Control Certification Form

AFFCO Site Management Plan
New Windsor, NY
Site No. 336036

CERTIFICATIONS

I, Arnold F. Fleming, PE, certify that I am currently a NYS registered professional engineer and that this Site Management Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.



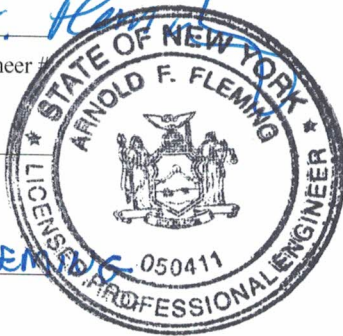
NYS Professional Engineer #



Date



Signature



AFFCO Site Management Plan
New Windsor, NY
Site No. 336036

EXECUTIVE SUMMARY

This Periodic Review Report (PRR) is for the AFFCO Site (No. 3-36-036) remediated in 2012 under a New York State Consent Order Index (W3-0784-04-06) administered by the New York State Department of Environmental Conservation (NYSDEC). The PRR documents compliance with the Site Management Plan (SMP) for the reporting period from August 2, 2020 through August 2, 2021. The AFFCO Site is located at 361 Walsh Avenue, New Windsor, Orange County, New York.

The SMP outlines the requirements to be followed after remediation in order to ensure there is no exposure to any remaining contamination. The SMP includes both Engineering Controls and Institutional Controls to prevent exposure that are specified within an Environmental Easement. The Environmental Easement consists of two areas each with its own Engineering Control: (1) Piano Felt Building and attendant Sub-slab Depressurization System (SSDS) and (2) the Soil Management Area and attendant soil cover. Both engineering controls were inspected on June 15, 2021 and found to be in compliance with the SMP requirements. The Site also adheres to the Institutional Control requirements that are part of the Environmental Easement. Therefore, AFFCO is in compliance with the SMP requirements for the reporting period.

1.0 INTRODUCTION

This PRR is for the AFFCO Site (No. 3-36-036) remediated under a New York State Consent Order Index (W3-0784-04-06) administered by NYSDEC. The PRR documents compliance with the SMP for the reporting period from April 2, 2020 through August 2, 2021. The Site is in compliance with the SMP requirements for the reporting period.

AFFCO entered into the Consent Order with NYSDEC to remediate an area impacted by releases of 1,1,1-Trichloroethane (TCA) when the mandate was executed on November 17, 2004. Figure 1 shows the general Site Layout, Site boundaries, and Environmental Easement. Figure 2 is a Site plan depicting the remediated area.

Subsequent to remediation, NYSDEC created an Environmental Easement with requirements to prevent exposure to any remaining contamination. The Environmental Easement contains both Engineering Controls and Institutional Controls as protective measures to be followed to prevent exposure. The Environmental Easement is part of the Site Management Plan.

The Environmental Easement consists of two sub areas: (1) the Piano Felt Building and (2) a Soil Management Area. The Piano Felt Building contains a Sub-slab Depressurization System (SSDS) that mitigates potential vapor impacts. The Soil Management Area was remediated by a combination of excavation and *in situ* chemical oxidation. The boundaries of the Environmental Easement are more fully described in the metes and bounds description included in the Environmental Easement description (Appendix A).

The Site manufactured felt for over 100 years. One product line was manufacture of felt filter face masks for particulates that used TCA in the production process. Site investigations began when traces of TCA appeared in water samples collected from a storm water outfall that discharged to the stream that borders the Site on the north, Quassaick Creek. The Site was subsequently placed on NYSDEC's List of Inactive Hazardous Waste Sites in 1991 (Site Code 3-36-036) due to the potential threat to the creek. The source of TCA was believed to from past leaks and spills from a process area and drum storage area near the former Feutron Building where the TCA was used and stored and where remediation took place (Figure 2). The facility stopped using TCA in 1992 when its use in manufacture ended.

Remediation took place from July 2012 through September 2012. The first remedial element was *in situ* chemical injection using the patented RemMetrik *in situ* treatment process in July 2012. Injection treated soils below the water table at approximately 10 feet below grade to 15 feet below grade in the 50-ft. by 50-ft. remediation area (Figure 2). Approximately 13,200 gallons of activated sodium persulfate were injected between July 9 and July 26, 2012. This was followed by a remedial excavation to approximately 11 feet below grade from August 27 through September 9, 2012.

The Site cleanup standards for soils are the Part 375 Commercial Use Soil Cleanup Objectives (CUSCO). Nearly all of the post-treatment soils met the more stringent Residential Use SCOs. All post-treatment and endpoint samples met the CUSCOs.

The cleanup goal for groundwater is NYSDEC TOGS 1.1.1, (TOGS) Class GA, Ambient Water Quality Standards and Guidance Values (AWQS) or asymptotic levels of VOCs in groundwater

AFFCO Site Management Plan
New Windsor, NY
Site No. 336036

following acceptable levels of treatment.

TCE concentrations in groundwater have not met the TOGs standards at this point, but have shown order-of-magnitude reductions and appear to have reached asymptotic levels and in some instances appear to still be decreasing. Most wells have only a few detected VOC compounds and fewer still have other VOCs above TOGS GA AWQS.

The groundwater sampling results from the most recent sampling event (2Q21) show an overall net sustained decreasing or level trend for TCA in all wells both within and outside the treatment area. TCA and Total VOCs show order-of-magnitude or near order-of-magnitude reductions in all wells compared to pre-treatment maximums.

Comparison of the maximum pre-treatment (or immediate post-treatment) concentrations to the 2Q21 results show sustained very substantial reductions. These represent sustained reductions nine years after treatment. All told, the median weighted reduction for TCA and Total VOCs compared with pre-treatment levels is over 99 percent for TCA and over 99 percent for Total VOCs as of the 2Q19 sampling event. No material rebound in groundwater concentrations has been observed in the more than nine years following remediation.

2.0 SITE OVERVIEW

Section 2 describes the general Site characteristics and conditions prior to remediation.

2.1 Site Location and Description

The Site is an active manufacturing facility located on the north side of Walsh Avenue, west of River Road in New Windsor, New York (Figure 1). The Site lies on the south side of Quassaick Creek, which flows into the Hudson River approximately 0.2 miles east of the Site. The surrounding area has a mixture of land uses, including industrial, commercial and residential. Potable water is supplied by the New Windsor Water Department.

The entire property occupies 23.185 acres, much of it is wooded and undeveloped. The Site operational area occupies approximately nine acres. The nine-acre operational area includes several large buildings, parking, open lawn and wooded areas, and encompasses the Environmental Easement. The Environmental Easement covers 0.5454 acres and is made up of the Soil Management Area (0.3845 acres) and the Piano Felt Building SSDS area (0.1609 acres) (Figure 1). The Environmental Easement is more fully described in the metes and bounds description that is part of the Environmental Easement (Appendix A).

2.2 Geology and Hydrological Conditions

2.2.1 Geological Conditions

The lithology within the treatment area consists of fill over alluvium underlain by glacial till. The soils consist of a mixture of fill over native soils. The fill lies from approximately 2 to 8 feet below grade and consists of a mixture of ash, cinders, brick, coal and concrete fragments in a silty sand and sandy silt matrix. This is underlain by grey to black silty sands and sandy silt. Below lies a compact glacial till that begins at approximately 13 to 15 feet below grade.

2.2.2 Hydrogeology

Depth to groundwater fluctuates depending on the season and amount of precipitation but is typically 8 to 10 feet below grade. Shallow groundwater flows towards Quassaick Creek.

2.3 Nature and Extent of Contamination

2.3.1 Soil Contamination

The principal contaminant of concern in soil was the chlorinated VOC TCA, the solvent used in the former production process. Other important contaminants, all chlorinated VOCs, included 1,1-Dichloroethane; 1,2-Dichloroethane; cis,1,2-Dichloroethane; trans,1,2-Dichloroethane;

AFFCO Site Management Plan
New Windsor, NY
Site No. 336036

Tetrachloroethane (PCE); 1,1,2-Trichloroethane; 1,1,2-Trichloroethane; and Trichloroethene (TCE). One non-chlorinated VOC, toluene, also had appreciable concentrations prior to remediation. Table 1 shows the pre-remedy data concentration spread for each of these compounds.

Table 1 - Summary of Pre-Remedy VOCs in Soil, µg/kg

VOC	No. Obs.	Min	p25	p50	p75	Max	CUSCOs
1,1,1-Trichloroethane (TCA)	51	nd	410	2,600	12,000	5,270,000	500,000
1,1-Dichloroethane	51	nd	9.6	287	6,160	23,300	240,000
1,2-Dichloroethane	51	nd	nd	3.1	254	16,100	30,000
1,1-Dichloroethene	51	nd	22	544	2,770	86,800	500,000
cis,1,2dichloroethene	39	nd	nd	nd	39.7	5,590	500,000
Trans,1,2-Dichloroethene	51	nd	nd	nd	3	5,650	500,000
Tetrachloroethene (PCE)	39	nd	nd	nd	22.1	920	150,000
Trichloroethene (TCE)	51	nd	.57	33.7	351	30,900	200,000
1,1,2-Trichloroethane	51	nd	nd	nd	nd	1,780	NS
Toluene	51	nd	nd	nd	nd	12,400	500,000

Min. – minimum conc.; p25 -25th percentile; p50 - 50th percentile (median); p75 - 75th percentile; Max. – maximum conc.; nd – non-detect. NS – No standard.

All of the primary VOCs in soil were below the CUSCOs. As shown in Table 1, most VOCs exhibited non-detect or low concentrations and comparatively few VOCs had elevated concentrations. Only TCA was above its CUSCO in three out of 51 soil samples (5.9 percent). The most elevated TCE soil concentrations were between 4 and 12 feet below grade, where TCA ranged from 1,150,000 µg/kg to 5,270,000 µg/kg (1,150 mg/kg to 5,270 mg/kg).

2.3.2 Groundwater Contamination

As with soil, the primary groundwater contaminant of concern prior to remediation was TCA. Approximately 62 percent of the 125 groundwater pre-remediation TCA groundwater samples were below its TOGS GA AWQS of 5 µg/L. Three of these 125 pre-remedy samples had TCE concentrations above 13,096 µg/L, the one percent solubility threshold indicating possible Dense Non-aqueous Phase Liquid (DNAPL). The three samples with these concentrations were all in what would eventually become the remediation area. No other VOCs had concentrations suggestive of DNAPL.

The concentrations of the remaining VOCs in Table 2 had roughly 50 to 75 percent of the results below their respective TOGS AWQS. The most elevated concentrations were predominantly in the area that would eventually become the treatment area, although sample collection focused on this area.

AFFCO Site Management Plan
New Windsor, NY
Site No. 336036

Table 2 - Summary of Pre-Remedy VOCs in Groundwater, µg/L

VOC	No. Obs.	Min	p25	p50	p75	Max	TOGS GA AWQS
1,1,1-Trichloroethane (TCA)	125	nd	nd	nd	20	50,000	5
1,1-Dichloroethane	69	nd	nd	2.8	130	36,100	5
1,2-Dichloroethane	69	nd	nd	nd	nd	233	0.6
1,1-Dichloroethene	68	nd	nd	nd	4.95	562	5
cis,1,2dichloroethene	19	nd	nd	nd	0.73	7.3	5
Trans,1,2-Dichloroethene	33	nd	nd	nd	nd	12	5
Tetrachloroethene (PCE)	32	nd	nd	nd	nd	2.2	5
Trichloroethene (TCE)	69	nd	nd	nd	2.3	28	5
1,1,2-Trichloroethane	60	nd	nd	nd	nd	34.5	1
Toluene	55	nd	nd	nd	nd	60.5	5

Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA Ambient Water Quality Standards (AWQS)

2.4 Site Cleanup

Site cleanup occurred in the 50-ft. by 50-ft. impacted area adjacent to the former Feutron Building (Figure 2). Cleanup took place from July 2012 through October 2012 in the form of *in situ* chemical injection followed by remedial excavation. The following sections describe Site conditions following remediation. The principal Compound of Concern was TCA. Per the February 2018 *Final Engineering Report*, the groundwater cleanup goals are the TOGS 1.1.1 Class GA Ambient Water Quality Standards or asymptotic levels of VOCs in groundwater following acceptable levels of treatment.

3.0 REMEDY PERFORMANCE, EFFECTIVENESS, & PROTECTIVENESS

Section 3 describes the post-remedy Site conditions. Soil cleanup met, and in most cases exceeded, the established cleanup goals. Groundwater, undergoing continued monitoring, is meeting the cleanup goals for this medium.

3.1 Post *in situ* Chemical Oxidation Soil Results

Of the 31 post-treatment soil samples collected following chemical injection, all but three VOC results met the Residential Use w/CP-51 Soil Cleanup Objectives, which are more stringent than the CUSCOs. The VOC compounds in the remaining three samples were well below the CUSCOs. An appreciable number of post-treatment soil samples were below the Unrestricted Use SCOs. The average overall Total VOC mass reduction was 76 percent. The average overall TCA mass reduction was 87 percent (Figure 3).

3.2 Post Remedial Excavation Soil Results

All post-excavation and post-treatment soil sample results were below the Site cleanup criteria, the Part 375 CUSCOs. Post-excavation endpoint sample results found all VOC concentrations below the NYSDEC Unrestricted Use Criteria with the exception of 1,1-Dichloroethane in one sample (PX-07) and 1,1-Dichloroethane, 1,1-Dichloroethene and 1,1,1-Trichloroethane in another sample (PX-3). These samples were below the CUSCOs (Figure 4).

3.3 Post Treatment Groundwater Results

Post-treatment groundwater sampling took place in April 2013. Of the 35 VOCs in the 8260 Target Compound List, 21 (60 percent) of the VOC results were below detection limits in all five groundwater samples within and downgradient of the treatment area. Of the 14 detected VOCs, five (14 percent of the total) were all below the TOGS AWQS or guideline values. Nine VOCs were above the TOGS AWQS or guidelines: Chloroethane, 1,1-Dichloroethane, 1,2-Dichloroethane, 1,1-Dichloroethene, Toluene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethane, and Vinyl chloride. Among these nine VOCs, four of the compounds were below the TOGS AWQS or guidelines in 75 percent of the samples.

The VOCs with the highest groundwater concentrations were Chloroethane (334 µg/L), 1,1-Dichloroethane (2,540 µg/L), and 1,1,1-Trichloroethane (8,630 µg/L) in monitoring well EW-0. EW-0 and MW-1 (a.k.a. MW-1N) had the highest concentrations of VOCs compared to all other wells, as shown. Post treatment groundwater results for these compounds collected in April 2013 (Table 3) were as follows:

AFFCO Site Management Plan
New Windsor, NY
Site No. 336036

Table 3 - Post-treatment Groundwater Results in µg/L, April 2013

Sample ID	Chloroethane	1,1-Dichloroethane	TCA
S-8	nd	11.8	1.4
E1-N (E1-NEW)	73.9	154	48.4
EW-1X	nd	22.9	nd
MW-1N (MW-1)	136	438	1,560
EW-0	334	2,540	8,630
Median	73.9	154	48.4

nd – non-detect

As of the most recent groundwater sampling in June 2021, the results for the same compounds (Table 4) are as follows:

Table 4 - Post-treatment Groundwater Results in µg/L, June 2021

Sample ID	Chloroethane	1,1-Dichloroethane	TCA
S-8	0.86 J	3.7	1.2
EW-1X	19.2	69	126
MW-1N (MW-1)	25	83.6	317
EW-0	1.8	31.8	196
Median	10.5	50.4	161

nd – non-detect

Material rebound has not occurred in nine years following post-treatment groundwater sampling.

Semiannual groundwater reports for the reporting period appear in Appendix C.

4.0 EC/IC COMPLIANCE REPORT

4.1 Engineering Controls

The SMP describes the engineering controls that have been implemented to prevent exposure to residual subsurface contamination at the Site. The two Engineering Controls are the SSDS in the Piano Felt Building and the soil cover in the Soil Management Area.

4.1.1 Sub-slab Depressurization System

Exposure to potential soil vapor contamination in the Piano Felt Building is prevented by a Sub-slab Depressurization System that creates a vacuum beneath the building floor and ventilates VOC vapors to the outside before they can enter the building (Figure 5).

4.1.2 Protective Soil Cover

Exposure to remaining contamination at the Site is prevented by the soil cover (Soil Management Area) as specified in the Environmental Easement and SMP (Figure 1):

A protective soil cover shall be in place over the Soil Management Area. The entire Soil Management Area will be inspected to ensure adequate cover by soil and/or vegetation and that erosion of the cover has not occurred. The protective cover in the 50-ft. x 50-ft. remedial excavation shall be of soil or gravel such that it is approximately level with the surrounding Soil Management Area grade.

4.2 Institutional Controls

Institutional controls incorporated into the Site remedy include an Environmental Easement to prohibit certain on-Site uses, and implementation of the SMP specifying soil management, operation, maintenance, monitoring and reporting procedures during future Site use. These Institutional Controls are described below.

- Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns;
- All Engineering Controls must be operated and maintained as specified in the SMP;
- All Engineering Controls on the Controlled Property (i.e., 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;

AFFCO Site Management Plan
New Windsor, NY
Site No. 336036

- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;
- On-Site environmental monitoring devices, including but not limited to, groundwater monitoring wells, must be protected and replaced as necessary to ensure proper functioning in the manner specified in the SMP;
- Engineering Controls may not be discontinued without an amendment or extinguishment of the Environmental Easement.

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

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

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

5.0 MONITORING PLAN COMPLIANCE REPORT

Monitoring has been in full compliance with the requirements outlined in the SMP. There have been no omissions or gaps in the monitoring frequency.

In its letter, dated May 6, 2020, NYSDEC approved the reduction in groundwater monitoring frequency to semiannually beginning in 2021. Per the new sampling schedule, the two quarters per year are to be selected randomly, so as to mitigate potential seasonal effects. Sampling in 2021 was completed in the first and second quarters of the year. In the same letter, NYSDEC also approved removal of monitoring well E1-NEW from all monitoring events. This well was last sampled on March 17, 2020.

6.0 OPERATION & MAINTAINANCE (O&M) PLAN COMPLIANCE REPORT

There is no OM&M plan for the facility. The only requirements are that the soil cover be in place, the SSDS system operate as designed, and groundwater monitoring and reporting occur at the required frequency. Both systems are operating as designed in the reporting period. Groundwater monitoring and reporting have been taking place at the required frequency

7.0 INVASIVE WORK

No invasive work took place during the reporting period (April 2, 2020 – August 2, 2021).

8.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

With respect to the protective cover, the SMP (Section 4.3.1) states:

A protective soil cover shall be in place over the Soil Management Area. The entire Soil Management Area will be inspected to ensure adequate cover by soil and/or vegetation and that erosion of the cover has not occurred. The protective cover in the 50-ft. x 50-ft. remedial excavation shall be of soil or gravel such that it is approximately level with the surrounding Soil Management Area grade.

The Site inspection on June 15, 2021 found the soil cover in adequate condition and in compliance with SMP requirements.

The Site inspection found the SSDS to have adequate vacuum and functioning properly.

There are no recommended changes to the SMP.

AFFCO Site Management Plan
New Windsor, NY
Site No. 336036

9.0 CERTIFICATION

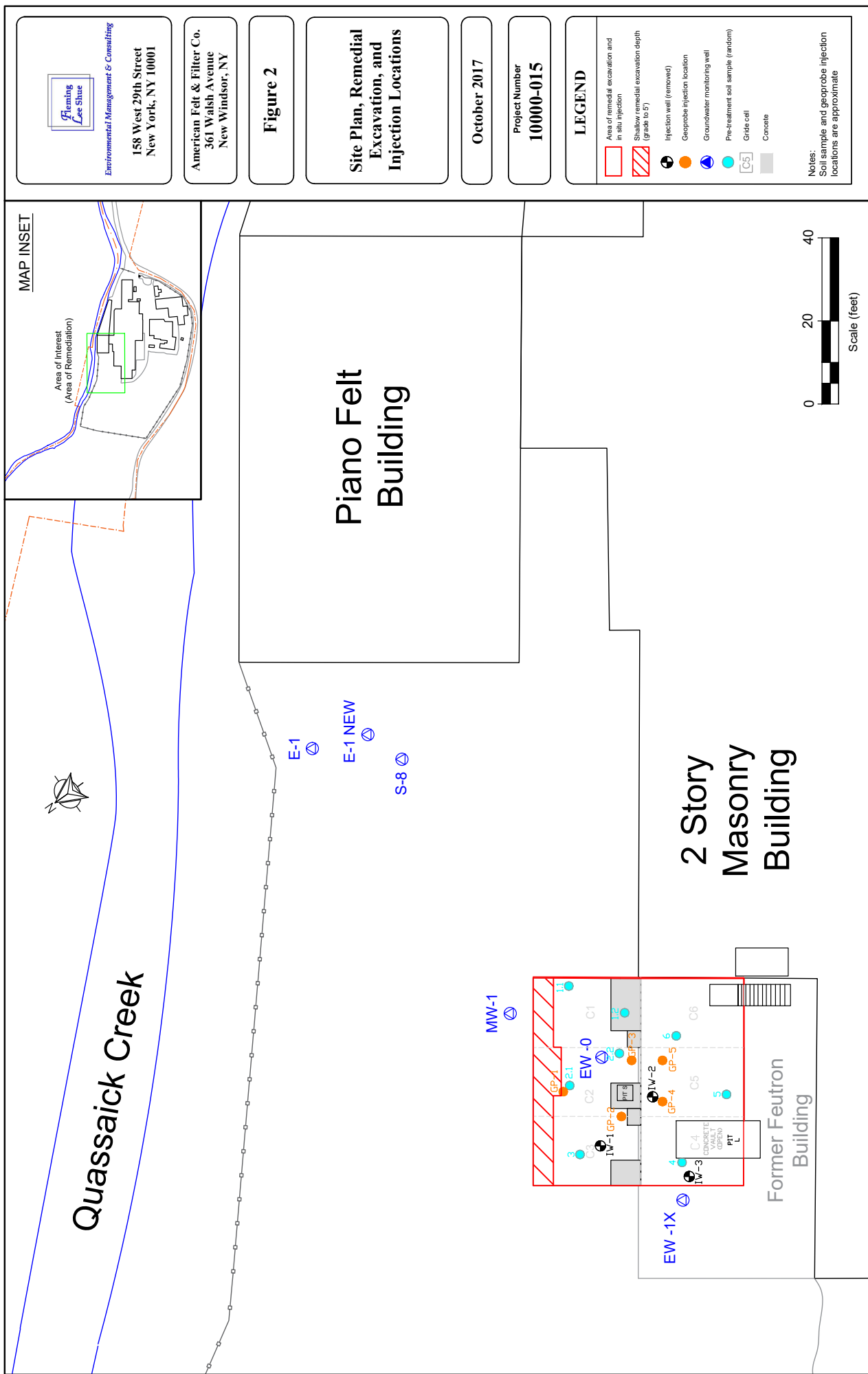
As a condition of the Environmental Easement the Grantor of the easement or successor is required to submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. This annual statement must be certified by an expert that the NYSDEC finds acceptable.

The IC/EC Certification Form for this Site was completed based on the information provided in this PRR and the inspections described herein. A copy of the form is included as Appendix D. As indicated on the form, all ICs for this Site remain in place and effective.

Periodic Review Report

AFFCO

Figures



**Fleming
Lee Shue**
Environmental Management & Consulting
158 West 29th Street
New York, NY 10001

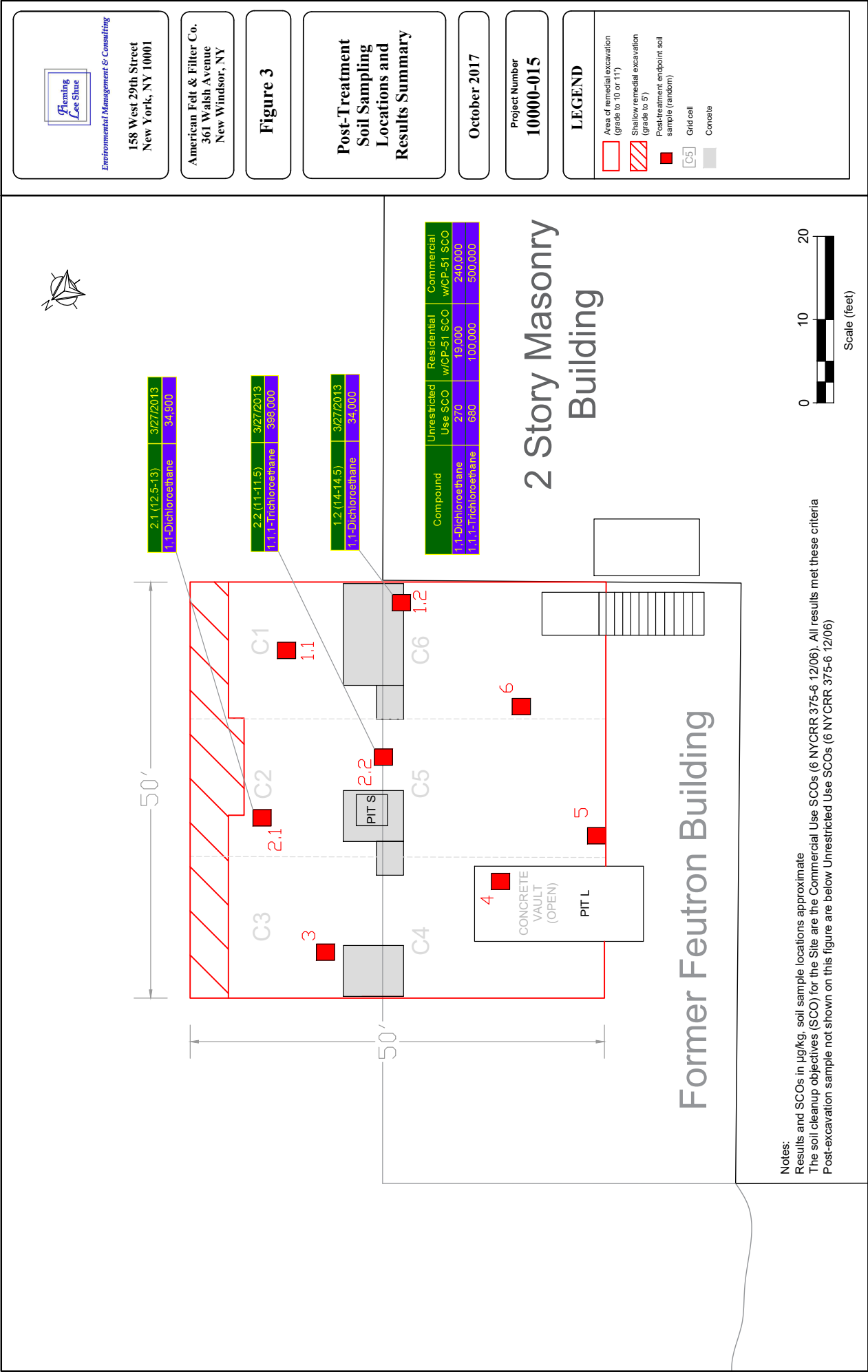
American Felt & Filter Co.
361 Walsh Avenue
New Windsor, NY

Figure 2

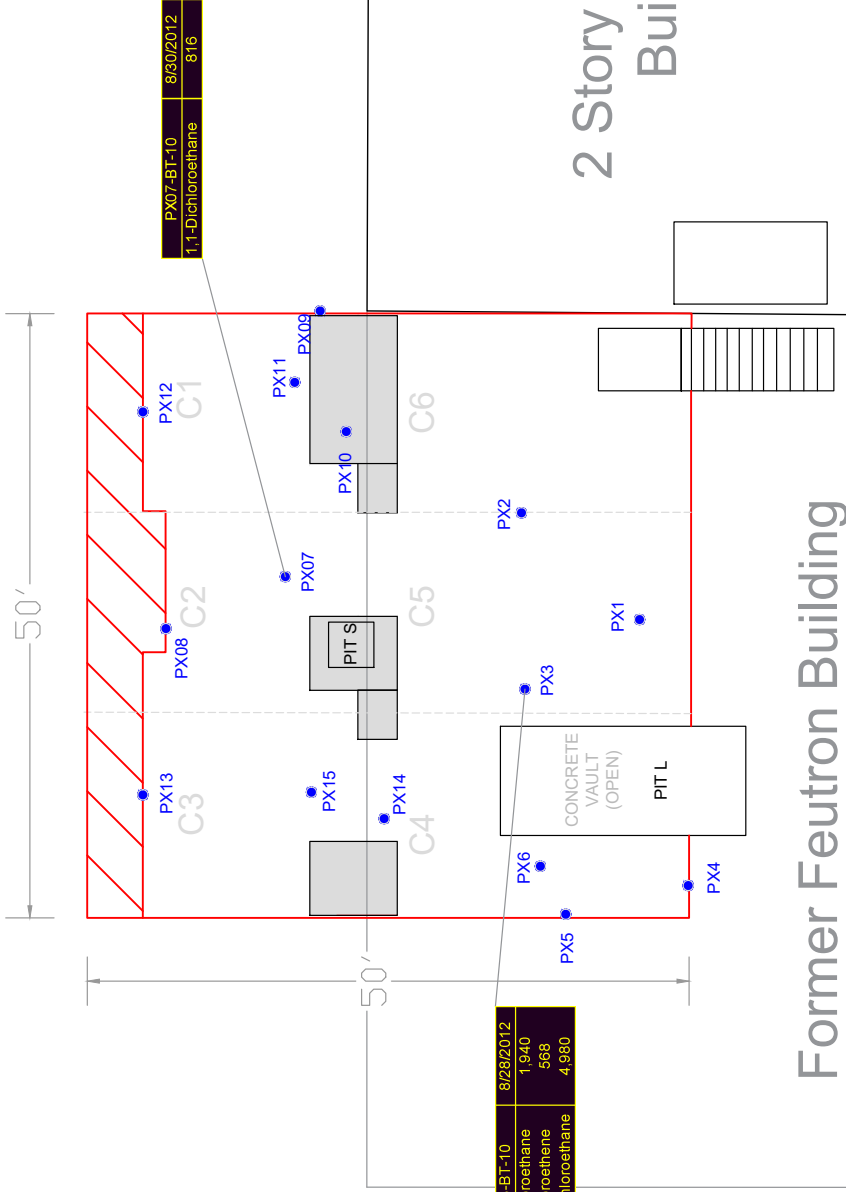
**Site Plan, Remedial
Excavation, and
Injection Locations**

October 2017

**Project Number
10000-015**



Compound	Unrestricted Use SCO	Residential w/CP-51 SCO	Commercial w/CP-51 SCO
1,1-Dichloroethane	270	19,000	240,000
1,1-Dichloroethene	330	100,000	500,000
1,1,1-Trichloroethane	680	100,000	500,000



Notes:
Results and SCOs in µg/Kg, soil sample locations approximate
The soil cleanup objectives (SCO) for the site are the Commercial Use SCOs (6 NYCRR 375-6.12/06). All results met these criteria.
Post-excavation sample results not shown on this figure are all below the Unrestricted Use SCOs (6 NYCRR 375-6.12/06).
Soil stockpile sample results for C55P01, C55P02 and C35P01 were above the Unrestricted Use SCOs for TCA and DCE, but were below the Residential Use SCOs.



**Fleming
Lee Shue**
Environmental Management & Consulting

158 West 29th Street
New York, NY 10001

American Felt & Filter Co.
361 Walsh Avenue
New Windsor, NY

Figure 4

**Post-Excavation
Soil Sampling
Locations and
Results Summary**

October 2017

Project Number
10000-015

LEGEND

- Area of remedial excavation (grade to 10 or 11')
- Shallow remedial excavation (grade to 5')
- Post-excavation endpoint soil sample (random)
- Grid cell
- Concrete

Periodic Review Report

AFFCO

Appendix A

Environmental Easement

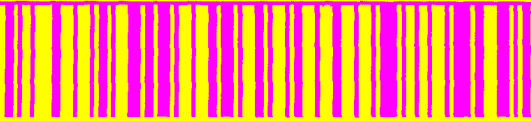
Fleming Engineering



ORANGE COUNTY – STATE OF NEW YORK
ANN G. RABBITT, COUNTY CLERK
255 MAIN STREET
GOSHEN, NEW YORK 10924

COUNTY CLERK'S RECORDING PAGE

THIS PAGE IS PART OF THE DOCUMENT – DO NOT DETACH



BOOK/PAGE: 14291 / 601
INSTRUMENT #: 20170066308

Receipt#: 2381301
Clerk: JM
Rec Date: 09/15/2017 12:16:02 PM
Doc Grp: D
Descrip: RT WY
Num Pgs: 10
Rec'd Frm: FIRST AMERICAN TITLE INS CO

Party1: AMERICAN FELT & FILTER CO INC
Party2: NYS DEPT OF ENVIRONMENTAL
CONSERVATION
Town: NEW WINDSOR (TN)
9-1-69.2

Recording:

Recording Fee	70.00
Cultural Ed	14.25
Records Management - Coun	1.00
Records Management - Stat	4.75
TP584	5.00

Sub Total: 95.00

Transfer Tax
Transfer Tax - State 0.00

Sub Total: 0.00

Total: 95.00

**** NOTICE: THIS IS NOT A BILL ****

***** Transfer Tax *****

Transfer Tax #: 1693

Transfer Tax

Consideration: 0.00

Total: 0.00

Payment Type: Check ____
Cash ____
Charge ____
No Fee ____

Comment: _____

Ann G. Rabbitt
Orange County Clerk

Record and Return To:

FIRST AMERICAN TITLE INS CO
666 THIRD AVE
5TH FLOOR
NEW YORK, NY 10017

3020-869296

County: Orange Site No: 336036 Order on Consent Index : W3-0784-04-06

**ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36
OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW**

THIS INDENTURE made this 23rd day of August, 2017, between Owner(s) American Felt & Filter Company, Inc., having an office at 361 Walsh Avenue, New Windsor, New York 12553, County of Orange, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 361 Walsh Avenue in the Town of New Windsor, County of Orange and State of New York, known and designated on the tax map of the County Clerk of Orange as tax map parcel numbers: Section 9 Block 1 Lot 69.2, being a portion of the property conveyed to Grantor by deed dated July 31, 1978 and recorded in the Orange County Clerk's Office in Liber and Page 2106/655. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 0.545 +/- acres, and is hereinafter more fully described in the Land Title Survey dated April 17, 1998 and last revised June 26, 2017 prepared by Steven P. Drabick, P.L.S., which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is

extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Order on Consent Index Number: W3-0784-04-06, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Orange County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

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

(6) to the best of his/her 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

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against

the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: It is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to: Site Number: 336036
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to: Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the

recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

Remainder of Page Intentionally Left Blank

County: Orange Site No: 336036 Order on Consent Index : W3-0784-04-06

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

American Felt & Filter Company, Inc.:

By: Wilson H. Payne

Print Name: Wilson H. Payne

Title: President

Date: 8/28/17

Grantor's Acknowledgment

STATE OF NEW YORK)

) ss:

COUNTY OF Orange)

On the 8th day of August, in the year 20 17, before me, the undersigned, personally appeared Wilson H. Payne, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Linda S. Miranda

Notary Public - State of New York

LINDA S. MIRANDA

NOTARY PUBLIC-STATE OF NEW YORK

No. 01MI6064154

Qualified in Orange County

My Commission Expires September 17, 2017

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner, /

Robert W. Schick, Director
Division of Environmental Remediation

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 23rd day of August, in the year 2017, before me, the undersigned, personally appeared Robert W. Schick, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Notary Public - State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2016

R+R:
First American Title
666 Third Ave., 2nd floor
New York, NY 10017



SCHEDULE "A" PROPERTY DESCRIPTION

**DESCRIPTION OF SOILS MANAGEMENT AREA & SUB-SLAB
DEPRESSURIZATION SYSTEM, AN ENVIRONMENTAL EASEMENT TO THE NEW
YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

GRANT OF EASEMENT over, across and through all that certain plot, piece or parcel of land with the building and improvements thereon erected, situate, lying and being in the Town of New Windsor, County of Orange and State of New York bounded and described as follows:

BEGINNING at a point at the northwesterly corner of the 1story masonry building of the most northerly complex of buildings located on lands of American Felt & Filter Company Inc., Liber 5730, Page 201, said point of beginning being located South 65 degrees 16 minutes 40 seconds West for a distance of 42.37 feet from a corner in the northerly bounds of lands of the same at the intersection with the municipal boundary between the City of Newburgh and Town of New Windsor and lands now or formerly of Hudson Shipyard Lp, Liber 12960, Page 1797;

THENCE South 72 degrees 57 minutes 34 seconds East for a distance of 103.33 feet along the face of said masonry building to a point;

THENCE South 17 degrees 21 minutes 13 seconds West for a distance of 68.08 feet through said masonry building to a point at the outside corner of said building;

THENCE North 72 degrees 00 minutes 00 seconds West for a distance of 51.17 feet through said masonry building to a point at the outside corner of said building;

THENCE North 72 degrees 57 minutes 52 seconds West for a distance of 51.79 feet to a point at the outside corner of said building;

THENCE South 17 degrees 02 minutes 08 seconds West for a distance of 29.25 feet to a to a point at the northerly face of a two-story masonry building;

THENCE North 72 degrees 32 minutes 52 seconds West for a distance of 75.55 feet along the northerly face of said building to a point at the corner of said building;

THENCE South 17 degrees 20 minutes 58 seconds West for a distance of 43.06 feet along the westerly face of the two-story masonry building to a point at the corner of said building;

THENCE North 72 degrees 34 minutes 38 seconds West for a distance of 72.17 feet along the northerly face of the two story masonry building to a point at the most northwesterly corner of said building;

THENCE North 17 degrees 02 minutes 17 seconds East for a distance of 140.76 feet through lands of American Felt & Filter Company, Inc. to a point marked by an iron rod set at or near a chain link fence;

THENCE South 67 degrees 51 minutes 22 seconds East for a distance of 123.39 feet through lands of the same and along a chain link fence to a point marked by an iron rod set;

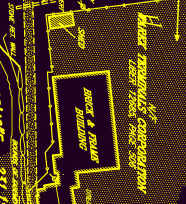
THENCE North 87 degrees 49 minutes 18 seconds East for a distance of 26.52 feet through lands of American Felt & Filter Company, Inc. to the POINT OR PLACE OF BEGINNING.

Together with and subject to covenants, and restrictions of record.

Said area contains 0.5454 acres more or less.

[illegible]

182.07
108.06
74.01



GRAPHIC SCALE - FEET

100

Periodic Review Report

AFFCO

Appendix B

Photographs & Site Inspection Form

Site Photos – Soil Management Area & Piano Felt Building SSDS, 6/15/2021



Photo 1. Soil Mgt. Area (facing west).



Photo 2. Soil Mgt. Area (facing north).



Photo 3. Soil Mgt. Area (facing northwest).



Photo 4. Soil Mgt. Area (southwest).



Photo 5. Soil Mgt. Area (facing south).



Photo 6. MW-1 replaced flush-mount.



Photo 7. Piano Felt Bldg. entrance.



Photo 8. Piano Felt Bldg. floor (facing east).

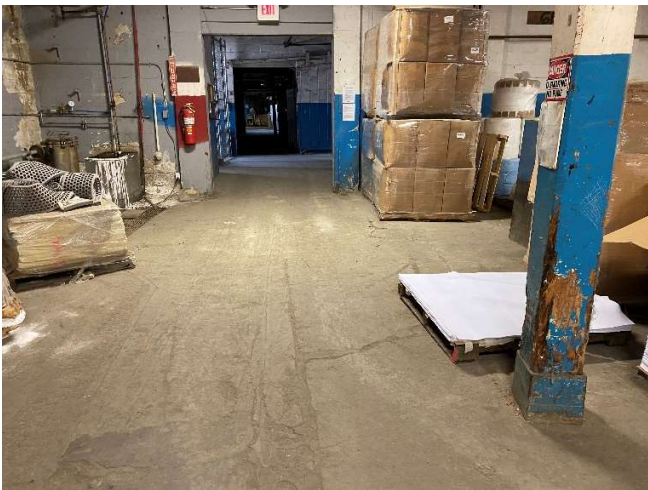


Photo 9. Piano Felt Bldg. floor (southeast corner).



Photo 10. Piano Felt Bldg. floor (facing west).



Photo 11. SSDS Gauge – 1.07" H₂O vacuum.



Photo 12. SSDS piping in good condition.

Site Inspection Form
Consent Order Index #W3-0784-04-06, Site #3-36-036
361 Walsh Avenue
New Windsor, New York.

Name of Inspector Jordan Arey Weather Sunny Date 6/15/21

Site personnel contacted/phone number Linda Miranda 845-561-3560

Is the Site limited to commercial use only? Y

Has the Site use changed since the last certification? N

If Yes, explain how: _____

What is the condition of the Composite Cover? X good _____ fair _____ poor

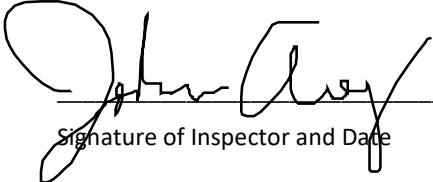
Are there cracks, clogs, or loose connections in the sub-slab depressurization system pipes? N

Differential pressure gauge reading (w.c.): 1.07" w.c.

Is the sub-slab depressurization system operating properly? Y

If No, explain why and what corrective actions should be taken: _____

Attach additional sheets as needed

 6/15/21

Signature of Inspector and Date



Environmental Management and Consulting

Periodic Review Report

AFFCO

Appendix C

Semiannual Groundwater Reports

FLEMING ENGINEERING

July 29, 2021

Mr. John Spellman, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7016

Re: American Felt and Filter Company (AFFCO), New Windsor, NY
Semiannual Groundwater Monitoring Report No. 2 – July 2021
Site No. 3-36-036; Site Index No. W3-0784-04-06

Dear Mr. Spellman:

Fleming Engineering (FE) is presenting this Second Semiannual (SA) Groundwater Monitoring Report for the American Felt and Filter Company (AFFCO) site in New Windsor, New York. The change in groundwater sampling frequency was approved by the Department in its May 6, 2020 approval of AFFCO's petition to reduce the frequency of groundwater sampling and eliminate one well, E1-NEW, from sampling. This second SA groundwater sampling event took place on June 15, 2021.

The Site was remediated between July and September 2012. The remedy was a combination of excavation and *in situ* chemical oxidation (ISCO) using the RemMetrik process (U.S. Patent No. 8,739,867 B2). The *in situ* injection took place in the 50-ft. by 50-ft. treatment area adjacent to the Fuetron Building in July 2012 and excavation occurred in August-September 2012. Post-treatment groundwater sampling took place in April 2013 in order for the treatment chemical, activated sodium persulfate, to fully react. FE prepared a Final Engineering Report (FER) and Site Management Plan (SMP) following the remedy and filed these with the New York State Department of Environmental Conservation (NYSDEC) in 2013 for review and comment. NYSDEC reviewed and approved these documents in 2017 after discussions and revisions made by FE. Quarterly groundwater sampling as outlined in the SMP began in the Second Quarter of 2012 after NYSDEC approved the FER and SMP and issued the Certificate of Completion on April 2, 2018.

A Site Layout Map showing the Site and Environmental Easement and Soil Management Area is included as Figure 1. Figure 2 is a groundwater contour map. Figure 3 identifies groundwater concentrations above NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS) Ambient Water Quality Standards and Guidance Values (Class GA Standards). The monitoring wells sampled, the respective analyses as required by the SMP and approved petition are as follows:

Well	TCL VOCs	Basic Groundwater Parameters ¹	Location
EW-0	x	x	Treatment Area
EW-1X	x	x	Treatment Area
MW-1	x	x	Adjacent to Treatment Area
S8	x	x	Downgradient of Treatment Area

¹ Iron, sulfate, sulfide, chloride, alkalinity

The groundwater results are discussed with respect to pre-treatment groundwater concentrations and concentration trends. The goal is to attain bulk reduction of groundwater concentrations and asymptotic trends in groundwater concentrations.

Data Validation

Data validation and review of the laboratory analytical data for the Target Compound List (TCL) Volatile Organic Compounds (VOCs) was completed by an in-house chemist not directly involved in the project. Data usability summary reports (DUSRs) are included as Appendix A. Data validation found all data usable for project decisions with the understanding of potential biases in estimated results.

The data were submitted to NYSDEC as an Electronic Data Deliverable (EDD) in accordance with Section 1.15 of NYSDEC's May 2010 DER-10 Technical Guidance for Site Investigation and Remediation. The EDD was submitted on July 27, 2021.

Groundwater Sampling & Analysis

Well purging and groundwater sampling were conducted in accordance with the approved Quality Assurance Project Plan (QAPP) and in accordance with the NYSDEC-approved SMP. Each well was purged using a low flow pump, ensuring minimum turbulence to prevent an increase in suspended solids. Each well was purged until groundwater parameters (temperature, pH, dissolved oxygen [DO], conductivity, oxidation reduction potential [ORP], and turbidity) stabilized or three well volumes were purged, or the well purged dry. The typical purge rates measured 200 to 240 milliliters per minute (mL/minute). Well purge logs are included as Appendix B.

FE conducted the current round of groundwater sampling on June 15, 2021. The samples were analyzed by SGS Accutest Laboratories of Dayton, New Jersey, a New York State Environmental Laboratory Approval Program (ELAP) certified laboratory. An electronic copy of the laboratory data report is included as Appendix C. The groundwater samples were managed in accordance with the NYSDEC Analytical Services Protocol (ASP) and analyzed for the following analyses/methods:

- Target Compounds List (TCL) VOCs, EPA Method 8260B
- Sulfate, EPA Method 300/SW846 9056A
- Sulfide, Method SM20 4500S2 F
- Alkalinity, EPA Method SM20 2320B
- Chloride, EPA Method 300

- Methane and Carbon Dioxide, Method RSK-175
- Iron, SW846 6010C
- Iron II, SM3500FE B-11

FE collected field Quality Assurance/Quality Control (QA/QC) samples as part of groundwater sampling. The QA/QC samples included one trip blank, one field blank, and one duplicate sample.

Groundwater Flow

Water level measurements were collected in the monitoring wells as part of the monitoring event and were used to prepare a shallow groundwater contour map as shown in Figure 2. Synoptic groundwater measurements were collected on June 15, 2021. Groundwater flow is towards Quassaick Creek, as expected.

Summary of Analytical Results

The discussion of the analytical results focuses on the principal contaminant, 1,1,1-Trichloroethane (TCA) and Total VOCs. Table 1 presents the analytical results for the current and previous rounds of groundwater sampling.

The semiannual sampling results are plotted and compared to the maximum pre-treatment concentrations for each of the principal contaminants. Groundwater concentrations typically fluctuate, often dramatically, with changing groundwater levels, the seasons, precipitation, and changes in groundwater flow direction throughout the year. This variation can dramatically affect contact between groundwater and contaminant, influence groundwater movement with more or less contaminated strata, affect contaminant migration and retardation through strata of different conductivities, and be influenced by geochemical factors that also occur within different strata. As a result, groundwater contaminant concentrations can fluctuate dramatically from one sampling event to another. Under these conditions, the maximum concentrations likely approximate actual groundwater contaminant concentrations and seem most appropriate as a basis for comparison. For this reason, it is more useful to compare the pre-remedy maximum groundwater concentrations with post-treatment groundwater over time and to use as a gauge of remedy effectiveness.

Treatment Area Wells

Monitoring wells EW-0 and EW-1X are the two monitoring wells within the treatment area. Figures 4 and 5 show the results of groundwater sampling trends for TCA and Total VOCs in the treatment area. Analysis of the 2Q 2021 semiannual groundwater sampling data identified the following trends.

Figure 4 shows that TCA in EW-0 decreased significantly from the last period, decreasing from 3,140 µg/L to 196 µg/L. While there remains a high level of variability in this well, TCA concentrations remain well below the pre-treatment maximum by more than an order-of-magnitude. TCE in EW1X remains essentially unchanged from the past eight measurements and remains more than an order-of-magnitude below the pre-treatment maximum.

Figure 5 shows that Total VOCs in EW-0 essentially mirror the concentration of TCA. Total VOCs decreased significantly from the last sampling period, from 4,970 µg/L to 252 µg/L in the current period.

Figure 4. TCA in Treatment Area Groundwater, µg/L

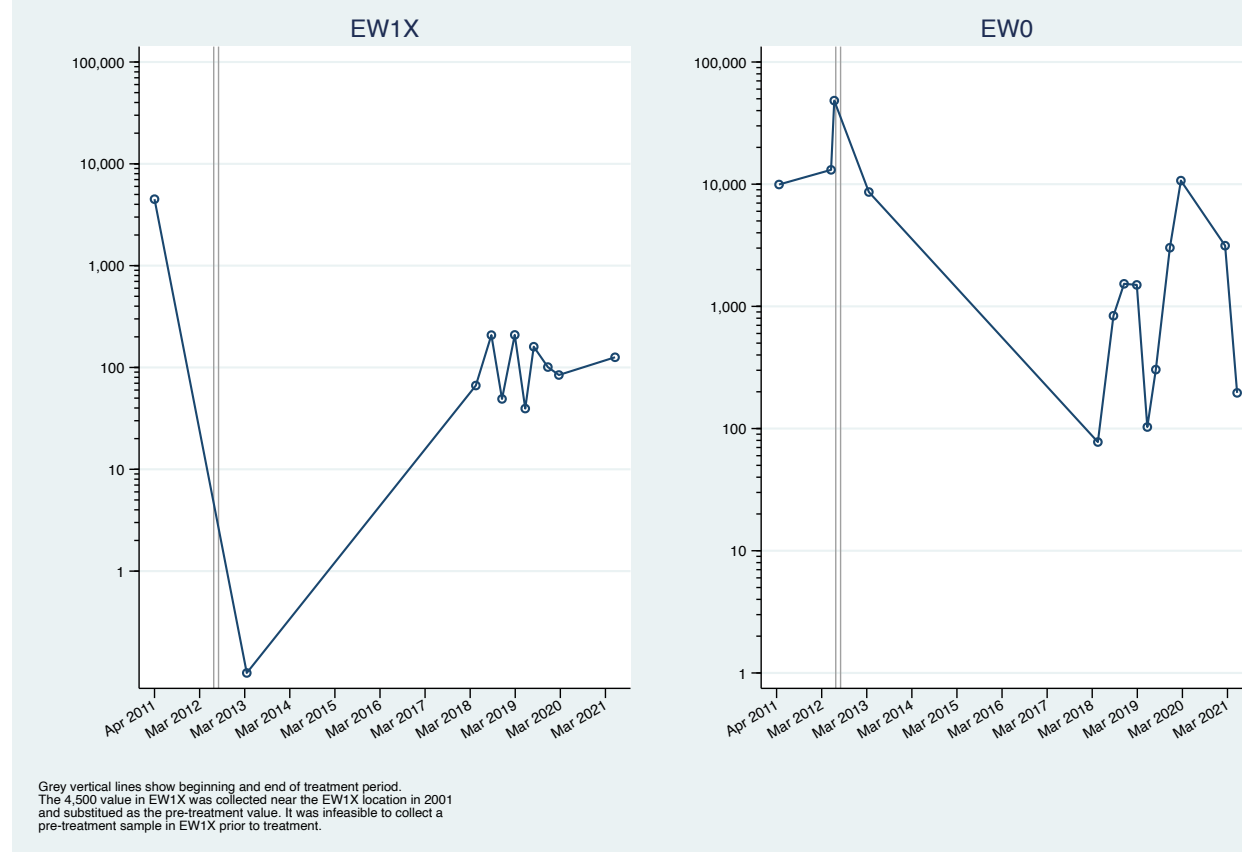
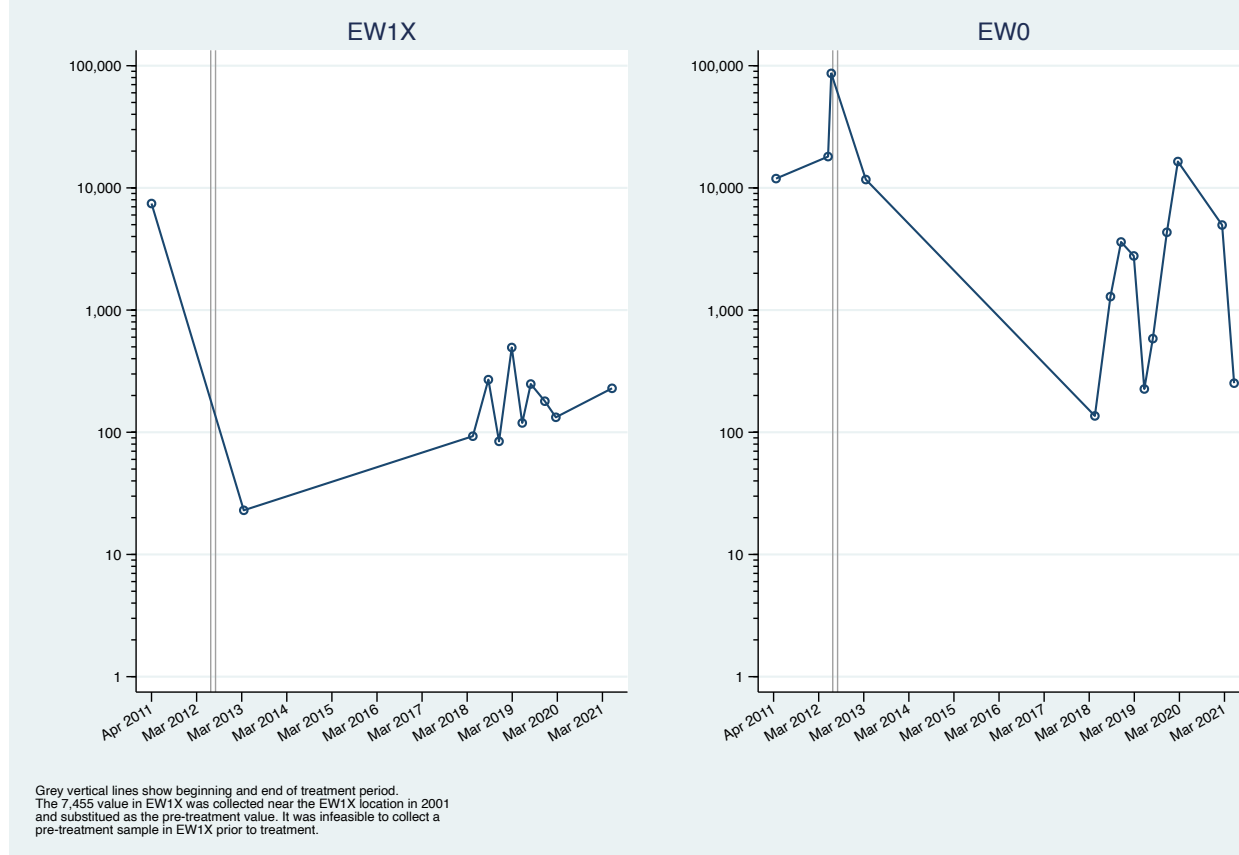
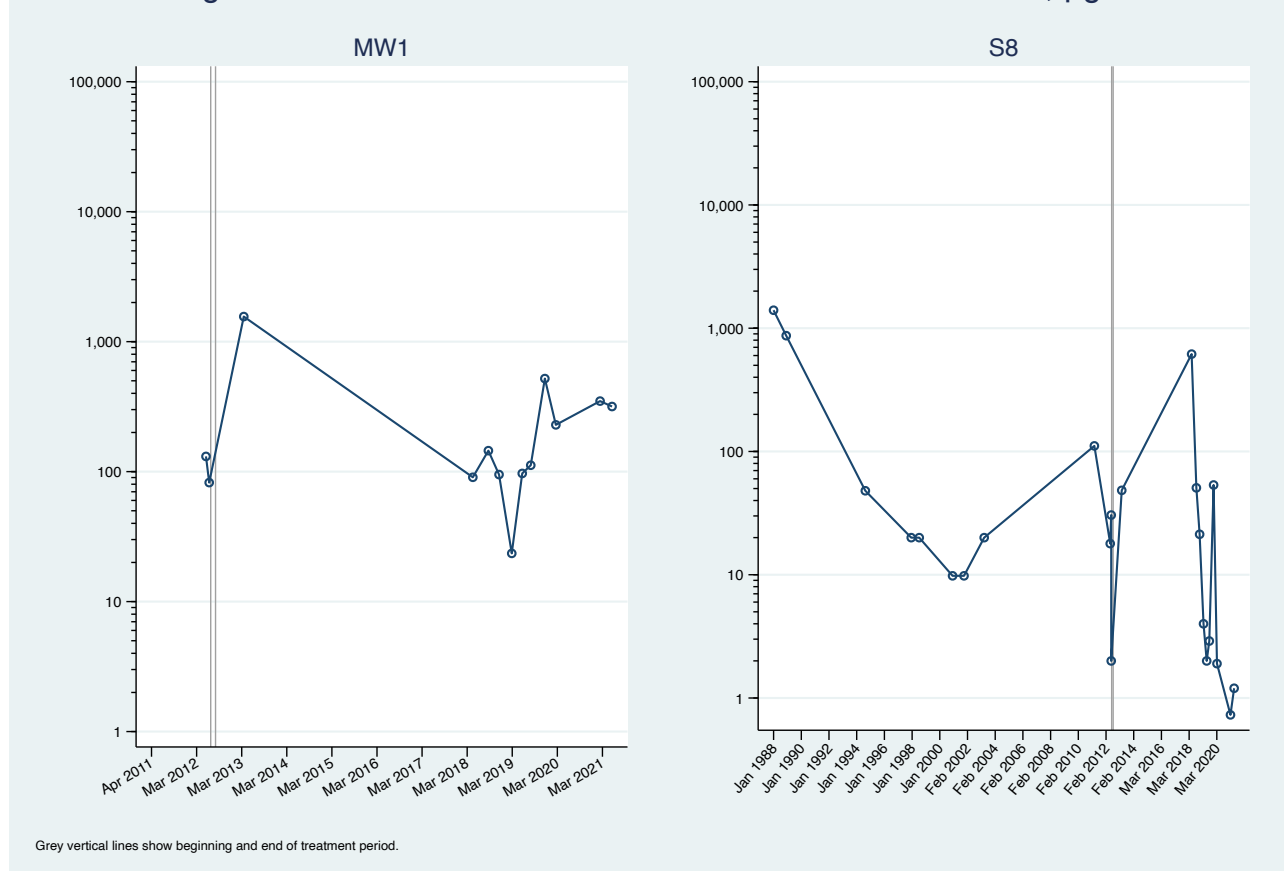


Figure 5. Total VOCs in Treatment Area Groundwater, µg/L

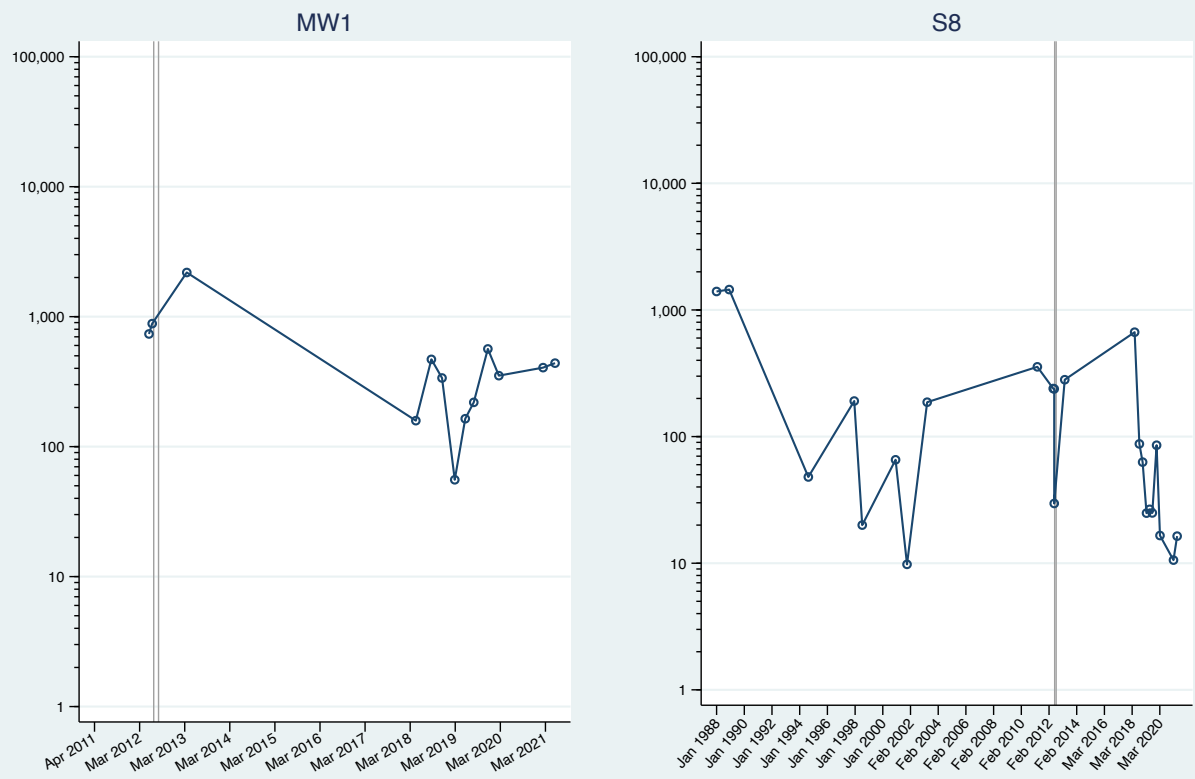


Outside Treatment Area Wells

Monitoring wells MW-1 and S-8, are downgradient and outside the treatment area. Figures 6 and 7 show the results of groundwater sampling trends for TCA and Total VOCs in wells outside the treatment area. TCE in MW-1 remains about the same as previous measurements but still remains approximately an order-of-magnitude below the maximum concentration. TCA in S-8 remains about the same compared to the previous period. It has remained below the TOGS AWQS standard of 5 µg/L for the last three measurements.

Figure 6. TCA in Groundwater Wells Outside Treatment Area, $\mu\text{g/L}$ 

Total VOCs again mirror those of TCA, remaining about the same in MW-1 and remaining very low in S-8.

Figure 7. Total VOCs in Groundwater Wells Outside Treatment Area, $\mu\text{g/L}$ 

Grey vertical lines show beginning and end of treatment period.

Groundwater Geochemical Conditions

Table 2 presents a running statistical summary of the basic groundwater parameters. Table 3 presents a running statistical summary of field groundwater parameters.

Table 2 – Geochemical Parameters

Parameter	Pre-remedy June 2012 n = 4			Post-treatment April 2013, n = 5			Qtr 2, 2018, n = 4/5 May 2018			Qtr 3, 2018 Sept. 2018, n = 5		
	Min	p50	Max	Min	p50	Max	Min	p50	Max	Min	p50	Max
CO ₂ , µg/L	--	--	--	--	--	--	80	2,500	3,090	240	2,220	9,720
CH ₄ , µg/L	--	--	--	--	--	--	0.36	13.9	3,980	4.2	25.9	87.2
Chloride, mg/L	47.7	112.5	162	37.1	52.6	114	16	29.1	102	31.5	49	54.5
Ethane, µg/L	--	--	--	--	--	--	nd	0.27	0.54	nd	0.45	0.77
Ethene, µg/L	--	--	--	--	--	--	nd	nd	0.55	nd	nd	0.58
Sulfate, mg/L	nd	20.2	59.7	nd	29.2	104	3.5	8.75	15.7	nd	11.8	78.2
Sulfide, mg/L	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron, mg/L	1.25	3.4	218	0.546	0.81	934	0.19	1.12	2.23	0.22	1.1	11.6
Iron II, mg/L	--	--	--	--	--	--	nd	nd	nd	nd	nd	1.6
Alkalinity, mg/L	125	201	218	89.2	124	274	47.9	89	248	71.7	121	305
Qtr 1, 2019												
March. 2019, n = 5												
	Qtr 4, 2018 Dec. 2018, n = 4/5						Qtr 2, 2019 June 2019, n = 4			Qtr 3, 2019 Aug. 2019, n = 4/5		
	Min	p50	Max	Min	p50	Max	Min	p50	Max	Min	p50	Max
CO ₂ , µg/L	566	2,640	6,460	240	2,050	4,650	296	1,450	3,100	126	3,080	5,920
CH ₄ , µg/L	69.1	389	1,020	1.6	4.9	2,350	0.14	13.3	3,860	0.39	1	66.3
Chloride, mg/L	26.1	79.5	93.4	36.5	79.9	86.6	12.9	38.6	46.5	24.9	32.5	92.1
Ethane, µg/L	nd	3	8.1	nd	nd	0.51	nd	0.13	0.51	nd	nd	1
Ethene, µg/L	nd	nd	4.1	nd	nd	nd	nd	nd	nd	nd	nd	0.37
Sulfate, mg/L	2.2	15.2	18.8	4	21.4	31.4	2.4	6.5	13.3	2.1	8.2	17
Sulfide, mg/L	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron, mg/L	0.13	0.76	1.51	77d	0.6	1.1	nd	0.33	1.7	0.17	1.84	3.38
Iron II, mg/L	nd	nd	0.21	nd	nd	nd	nd	nd	nd	nd	nd	nd
Alkalinity, mg/L	106	171	188	123	151	244	55	91	241	80	123	216
Qtr 4, 2019												
Dec. 2019, n = 5												
	Qtr 1, 2020 March 2020, n = 4/5			SA 1, 2021 March 2021, n = 3			SA 2, 2021 June 2021, n = 3					
	Min	p50	Max	Min	p50	Max	Min	p50	Max	Min	p50	Max
CO ₂ , µg/L	173	2,650	3,780	130	2,670	4,590	1,180	1,790	2,330	1,340	2,260	3,690
CH ₄ , µg/L	7.3	15.8	2,480	10.6	27.4	3,980	19.7	20.8	28.6	0.18	38.3	61
Chloride, mg/L	33.8	78	102	34.1	90.4	178	61	87.4	88.4	82.3	84.3	88.5
Ethane, µg/L	nd	nd	0.63	nd	0.3	0.57	nd	0	1.4	nd	nd	0.61
Ethene, µg/L	nd	nd	1.2	nd	nd	2.2	nd	nd	0.9	nd	nd	nd
Sulfate, mg/L	4.7	20	77.9	nd	16.1	78.7	24	30.2	42.5	16.1	17.2	17.7
Sulfide, mg/L	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron, mg/L	0.1	0.53	4.4	nd	1.1	7.03	nd	0.47	1.1	396	570	775
Iron II, mg/L	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Alkalinity, mg/L	109	126	202	92	191	262	89	102	181	102	114	144

nd – not detected

Table 3 – Field Parameters

Field Parameter	Pre-remedy July 2012 n = 5			Post-treatment April 2013, n = 5			Qtr 2, 2018 May 2018, n = 4/5			Qtr 3, 2018 Sept. 2018, n = 5		
	Min	p50	Max	Min	p50	Max	Min	p50	Max	Min	p50	Max
pH	7.8	9.5	9.9	7.5	8.5	9.1	7.2	7.6	9.3	6.4	7.5	8.7
Cond., µS/cm	90	593	813	356	522	1,100	152	481	734	344	394	940
NTU	0	24	278	0	57	459	0.3	4	8.9	0.5	2.3	40
DO, mg/L	0	2.19	8.25	0.59	0.65	8.42	0.31	1.8	3.86	0.32	0.56	1.61
Temp. C	15.9	16.9	21.8	10.9	13.2	15.4	12.85	13.9	16.18	18.1	20.7	21.1
ORP, mV	-22	-98	-50	-659	-207	59	-164	-62	154	-223	-74	-73

	Qtr 4, 2018 Dec. 2018, n = 5			Qtr 1, 2019 March 2019, n = 4/5			Qtr 2, 2019 June 2019, n = 5			Qtr 3, 2019 Aug. 2019, n = 5		
	Min	p50	Max	Min	p50	Max	Min	p50	Max	Min	p50	Max
pH	5.35	5.87	7.25	5.48	7	8.7	6.67	7.11	8.2	6.54	6.86	8.35
Cond., µS/cm	0.601	0.890	1.09	0.529	0.56	0.713	0.007	0.338	0.826	0.12	0.45	.048
NTU	0	21.3	63.5	0.1	4.5	87.1	0	1	130	0	0	5
DO, mg/L	0.33	0.9	7.13	0.8	2	4.57	0	0.9	1.3	0	0	0.74
Temp. C	8.8	11.8	12.4	8.6	9.81	11.06	15.8	16.2	17.7	16.4	20.4	22.9
ORP, mV	-105	5	38	-157	4	187	-196	-101	164	-252	16	132

	Qtr 4, 2019 Dec. 2019, n = 5			Qtr 1, 2020 March 2020, n = 5			SA 1, 2021 March 2021, n = 3			SA 2, 2021 June 2021, n = 3		
	Min	p50	Max	Min	p50	Max	Min	p50	Max	Min	p50	Max
pH	6.92	7.22	8.61	6.8	6.58	8.4	6.7	7.1	7.6	6.1	6.4	6.7
Cond., µS/cm	0.474	0.525	0.561	0.359	0.735	0.939	0.349	0.367	0.439	0.302	0.313	0.315
NTU	0	1.5	37.2	0	2.1	150	0	0	0	0	13.2	44.1
DO, mg/L	0	1.11	1.74	0	0	0.86	0	0	2.05	0	0	0
Temp. C	10.1	10.97	12.3	8.9	9.7	12	9.1	9.5	11	15.7	16.6	17.3
ORP, mV	-17	84	284	-172	10	18	57	73	112	59	70	103

Sulfate is an electron acceptor and an energy source for microbial degradation. Sulfate is reduced to sulfide by microbes degrading contaminant. Sulfate was less than 18 mg/L, and sulfide was non-detect in all site samples this period, indicating that sulfate reduction is not an active biodegradation pathway.

Iron is an electron acceptor and an energy source for microbial degradation. Iron becomes more soluble when reduced to its dissolved state as Iron II (ferrous iron, Fe II) during microbial degradation. The median Fe II concentration was non-detect this period indicating that iron reduction is not an active biodegradation pathway.

Alkalinity is another indicator of microbial degradation and increased in response to microbial changes. Alkalinity this period was similar to the previous period.

Dissolved oxygen (DO) is a key component of aerobic microbial degradation. DO remains low in most wells. The median DO concentration measured 0 mg/L, which is appreciably lower than the 0.5 mg/L considered the threshold for aerobic degradation to begin.

Oxidation Reduction Potential (ORP) was all above zero this period, which is not conducive to reductive dechlorination. Groundwater temperatures ranged from 16 to 17 degrees C this period.

Geochemical results and groundwater field parameters indicate insignificant biological activity occurred this period. The decrease in TCA appears due to abiotic degradation.

Net TCA and Total VOC Reduction in Groundwater

Table 4 shows the percent reduction in TCA and Total VOCs for the treatment area, outside the treatment area, and for all wells compared with the pre-treatment maximum concentrations. TCE and Total VOCs remain significantly lower than the pre-treatment maximum concentrations indicating there is no net material rebound. Overall, despite some fluctuation, TCA maintained a reduction of 99 percent and Total VOCs maintained a 99 percent reduction. This suggests sustained bulk reduction.

Table 4A - Treatment Area Wells¹

Well	TCA % Reduction	Total VOCs % Reduction
EW-1X	97	96
EW-0	>99	>99
Net Weighted Reduction	>99	>99

Table 4B - Downgradient Wells

Well	TCA % Reduction	Total VOCs % Reduction
S-8	>99	99
MW-1 ²	53	80
Net Weighted Reduction	89	88

Table 4C - All Wells

Well	TCA % Reduction	Total VOCs % Reduction
S-8	>99	>99
EW-1X	--	--
EW-0	>99	>99
MW-1 ²	80	80
Net Weighted Reduction	99	>99

¹ % Reduction is the percent reduction for each well compared to its pre-treatment maximum concentration.

Net Weighted Reduction is the weighted reduction for all wells in the specific group shown.

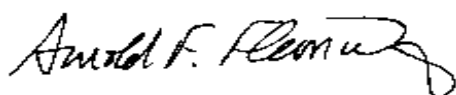
² Using the maximum TCA or Total VOC concentration immediately after treatment

Summary and Conclusions

Groundwater sampling results from the 2Q21 SA sampling event show little biological activity this period. Nonetheless, TCA and Total VOCs decreased compared to the previous sampling period, most likely due to abiotic processes. Overall, TCA maintained a reduction of 99 percent compared with the pre-treatment maximum and Total VOCs maintained a >99 percent reduction compared with the pre-treatment maximum. This is evidence of sustained bulk reduction. Most wells have only a few detected VOC compounds and fewer still have VOCs above the TOGS GA AWQS. The number of VOCs above TOGS is four or less (Figure 3). The site continues to show overall improvement.

Please contact us with any comments or questions.

Sincerely,
Fleming-Lee Shue, Inc.



Arnold F. Fleming, P.E.
Remedial Engineer

cc: S. Panter, M. Hutson, FLS

Attachments:

- Figure 1 – Site Location Map
- Figure 2 – Site Plan
- Figure 3 – Groundwater Elevation Contours
- Figure 4 – Groundwater above TOGS - VOCs
- Table 1 – Consecutive Analytical Results by Well
- Appendix A – Data Usability Summary Report
- Appendix B – Well Development Logs
- Appendix C – Laboratory Reports

Tables

Table 1. APFO Current Use Analytical Results by Well - Metals

Author and Address	DOI	DOI 15	DOI 16	DOI 17	DOI 18	DOI 19	DOI 20	DOI 21	DOI 22	DOI 23	DOI 24	DOI 25	DOI 26	DOI 27	DOI 28	DOI 29	DOI 30	DOI 31	DOI 32	DOI 33	DOI 34	DOI 35	DOI 36	DOI 37	DOI 38	DOI 39	DOI 40	DOI 41	DOI 42	DOI 43	DOI 44	DOI 45	DOI 46	DOI 47	DOI 48	DOI 49	DOI 50	DOI 51	DOI 52	DOI 53	DOI 54	DOI 55	DOI 56	DOI 57	DOI 58	DOI 59	DOI 60	DOI 61	DOI 62	DOI 63	DOI 64	DOI 65	DOI 66	DOI 67	DOI 68	DOI 69	DOI 70	DOI 71	DOI 72	DOI 73	DOI 74	DOI 75	DOI 76	DOI 77	DOI 78	DOI 79	DOI 80	DOI 81	DOI 82	DOI 83	DOI 84	DOI 85	DOI 86	DOI 87	DOI 88	DOI 89	DOI 90	DOI 91	DOI 92	DOI 93	DOI 94	DOI 95	DOI 96	DOI 97	DOI 98	DOI 99	DOI 100	DOI 101	DOI 102	DOI 103	DOI 104	DOI 105	DOI 106	DOI 107	DOI 108	DOI 109	DOI 110	DOI 111	DOI 112	DOI 113	DOI 114	DOI 115	DOI 116	DOI 117	DOI 118	DOI 119	DOI 120	DOI 121	DOI 122	DOI 123	DOI 124	DOI 125	DOI 126	DOI 127	DOI 128	DOI 129	DOI 130	DOI 131	DOI 132	DOI 133	DOI 134	DOI 135	DOI 136	DOI 137	DOI 138	DOI 139	DOI 140	DOI 141	DOI 142	DOI 143	DOI 144	DOI 145	DOI 146	DOI 147	DOI 148	DOI 149	DOI 150	DOI 151	DOI 152	DOI 153	DOI 154	DOI 155	DOI 156	DOI 157	DOI 158	DOI 159	DOI 160	DOI 161	DOI 162	DOI 163	DOI 164	DOI 165	DOI 166	DOI 167	DOI 168	DOI 169	DOI 170	DOI 171	DOI 172	DOI 173	DOI 174	DOI 175	DOI 176	DOI 177	DOI 178	DOI 179	DOI 180	DOI 181	DOI 182	DOI 183	DOI 184	DOI 185	DOI 186	DOI 187	DOI 188	DOI 189	DOI 190	DOI 191	DOI 192	DOI 193	DOI 194	DOI 195	DOI 196	DOI 197	DOI 198	DOI 199	DOI 200	DOI 201	DOI 202	DOI 203	DOI 204	DOI 205	DOI 206	DOI 207	DOI 208	DOI 209	DOI 210	DOI 211	DOI 212	DOI 213	DOI 214	DOI 215	DOI 216	DOI 217	DOI 218	DOI 219	DOI 220	DOI 221	DOI 222	DOI 223	DOI 224	DOI 225	DOI 226	DOI 227	DOI 228	DOI 229	DOI 230	DOI 231	DOI 232	DOI 233	DOI 234	DOI 235	DOI 236	DOI 237	DOI 238	DOI 239	DOI 240	DOI 241	DOI 242	DOI 243	DOI 244	DOI 245	DOI 246	DOI 247	DOI 248	DOI 249	DOI 250	DOI 251	DOI 252	DOI 253	DOI 254	DOI 255	DOI 256	DOI 257	DOI 258	DOI 259	DOI 260	DOI 261	DOI 262	DOI 263	DOI 264	DOI 265	DOI 266	DOI 267	DOI 268	DOI 269	DOI 270	DOI 271	DOI 272	DOI 273	DOI 274	DOI 275	DOI 276	DOI 277	DOI 278	DOI 279	DOI 280	DOI 281	DOI 282	DOI 283	DOI 284	DOI 285	DOI 286	DOI 287	DOI 288	DOI 289	DOI 290	DOI 291	DOI 292	DOI 293	DOI 294	DOI 295	DOI 296	DOI 297	DOI 298	DOI 299	DOI 300	DOI 301	DOI 302	DOI 303	DOI 304	DOI 305	DOI 306	DOI 307	DOI 308	DOI 309	DOI 310	DOI 311	DOI 312	DOI 313	DOI 314	DOI 315	DOI 316	DOI 317	DOI 318	DOI 319	DOI 320	DOI 321	DOI 322	DOI 323	DOI 324	DOI 325	DOI 326	DOI 327	DOI 328	DOI 329	DOI 330	DOI 331	DOI 332	DOI 333	DOI 334	DOI 335	DOI 336	DOI 337	DOI 338	DOI 339	DOI 340	DOI 341	DOI 342	DOI 343	DOI 344	DOI 345	DOI 346	DOI 347	DOI 348	DOI 349	DOI 350	DOI 351	DOI 352	DOI 353	DOI 354	DOI 355	DOI 356	DOI 357	DOI 358	DOI 359	DOI 360	DOI 361	DOI 362	DOI 363	DOI 364	DOI 365	DOI 366	DOI 367	DOI 368	DOI 369	DOI 370	DOI 371	DOI 372	DOI 373	DOI 374	DOI 375	DOI 376	DOI 377	DOI 378	DOI 379	DOI 380	DOI 381	DOI 382	DOI 383	DOI 384	DOI 385	DOI 386	DOI 387	DOI 388	DOI 389	DOI 390	DOI 391	DOI 392	DOI 393	DOI 394	DOI 395	DOI 396	DOI 397	DOI 398	DOI 399	DOI 400	DOI 401	DOI 402	DOI 403	DOI 404	DOI 405	DOI 406	DOI 407	DOI 408	DOI 409	DOI 410	DOI 411	DOI 412	DOI 413	DOI 414	DOI 415	DOI 416	DOI 417	DOI 418	DOI 419	DOI 420	DOI 421	DOI 422	DOI 423	DOI 424	DOI 425	DOI 426	DOI 427	DOI 428	DOI 429	DOI 430	DOI 431	DOI 432	DOI 433	DOI 434	DOI 435	DOI 436	DOI 437	DOI 438	DOI 439	DOI 440	DOI 441	DOI 442	DOI 443	DOI 444	DOI 445	DOI 446	DOI 447	DOI 448	DOI 449	DOI 450	DOI 451	DOI 452	DOI 453	DOI 454	DOI 455	DOI 456	DOI 457	DOI 458	DOI 459	DOI 460	DOI 461	DOI 462	DOI 463	DOI 464	DOI 465	DOI 466	DOI 467	DOI 468	DOI 469	DOI 470	DOI 471	DOI 472	DOI 473	DOI 474	DOI 475	DOI 476	DOI 477	DOI 478	DOI 479	DOI 480	DOI 481	DOI 482	DOI 483	DOI 484	DOI 485	DOI 486	DOI 487	DOI 488	DOI 489	DOI 490	DOI 491	DOI 492	DOI 493	DOI 494	DOI 495	DOI 496	DOI 497	DOI 498	DOI 499	DOI 500	DOI 501	DOI 502	DOI 503	DOI 504	DOI 505	DOI 506	DOI 507	DOI 508	DOI 509	DOI 510	DOI 511	DOI 512	DOI 513	DOI 514	DOI 515	DOI 516	DOI 517	DOI 518	DOI 519	DOI 520	DOI 521	DOI 522	DOI 523	DOI 524	DOI 525	DOI 526	DOI 527	DOI 528	DOI 529	DOI 530	DOI 531	DOI 532	DOI 533	DOI 534	DOI 535	DOI 536	DOI 537	DOI 538	DOI 539	DOI 540	DOI 541	DOI 542	DOI 543	DOI 544	DOI 545	DOI 546	DOI 547	DOI 548	DOI 549	DOI 550	DOI 551	DOI 552	DOI 553	DOI 554	DOI 555	DOI 556	DOI 557	DOI 558	DOI 559	DOI 560	DOI 561	DOI 562	DOI 563	DOI 564	DOI 565	DOI 566	DOI 567	DOI 568	DOI 569	DOI 570	DOI 571	DOI 572	DOI 573	DOI 574	DOI 575	DOI 576	DOI 577	DOI 578	DOI 579	DOI 580	DOI 581	DOI 582	DOI 583	DOI 584	DOI 585	DOI 586	DOI 587	DOI 588	DOI 589	DOI 590	DOI 591	DOI 592	DOI 593	DOI 594	DOI 595	DOI 596	DOI 597	DOI 598	DOI 599	DOI 600	DOI 601	DOI 602	DOI 603	DOI 604	DOI 605	DOI 606	DOI 607	DOI 608	DOI 609	DOI 610	DOI 611	DOI 612	DOI 613	DOI 614	DOI 615	DOI 616	DOI 617	DOI 618	DOI 619	DOI 620	DOI 621	DOI 622	DOI 623	DOI 624	DOI 625	DOI 626	DOI 627	DOI 628	DOI 629	DOI 630	DOI 631	DOI 632	DOI 633	DOI 634	DOI 635	DOI 636	DOI 637	DOI 638	DOI 639	DOI 640	DOI 641	DOI 642	DOI 643	DOI 644	DOI 645	DOI 646	DOI 647	DOI 648	DOI 649	DOI 650	DOI 651	DOI 652	DOI 653	DOI 654	DOI 655	DOI 656	DOI 657	DOI 658	DOI 659	DOI 660	DOI 661	DOI 662	DOI 663	DOI 664	DOI 665	DOI 666	DOI 667	DOI 668	DOI 669	DOI 670	DOI 671	DOI 672	DOI 673	DOI 674	DOI 675	DOI 676	DOI 677	DOI 678	DOI 679	DOI 680	DOI 681	DOI 682	DOI 683	DOI 684	DOI 685	DOI 686	DOI 687	DOI 688	DOI 689	DOI 690	DOI 691	DOI 692	DOI 693	DOI 694	DOI 695	DOI 696	DOI 697	DOI 698	DOI 699	DOI 700	DOI 701	DOI 702	DOI 703	DOI 704	DOI 705	DOI 706	DOI 707	DOI 708	DOI 709	DOI 710	DOI 711	DOI 712	DOI 713	DOI 714	DOI 715	DOI 716	DOI 717	DOI 718	DOI 719	DOI 720	DOI 721	DOI 722	DOI 723	DOI 724	DOI 725	DOI 726	DOI 727	DOI 728	DOI 729	DOI 730	DOI 731	DOI 732	DOI 733	DOI 734	DOI 735	DOI 736	DOI 737	DOI 738	DOI 739	DOI 740	DOI 741	DOI 742	DOI 743	DOI 744	DOI 745	DOI 746	DOI 747	DOI 748	DOI 749	DOI 750	DOI 751	DOI 752	DOI 753	DOI 754	DOI 755	DOI 756	DOI 757	DOI 758	DOI 759	DOI 760	DOI 761	DOI 762	DOI 763	DOI 764	DOI 765	DOI 766	DOI 767	DOI 768	DOI 769	DOI 770	DOI 771	DOI 772	DOI 773	DOI 774	DOI 775	DOI 776	DOI 777	DOI 778	DOI 779	DOI 780	DOI 781	DOI 782	DOI 783	DOI 784	DOI 785	DOI 786	DOI 787	DOI 788	DOI 789	DOI 790	DOI 791	DOI 792	DOI 793	DOI 794	DOI 795	DOI 796	DOI 797	DOI 798	DOI 799	DOI 800	DOI 801	DOI 802	DOI 803	DOI 804	DOI 805	DOI 806	DOI 807	DOI 808	DOI 809	DOI 810	DOI 811	DOI 812	DOI 813	DOI 814	DOI 815	DOI 816	DOI 817	DOI 818	DOI 819	DOI 820	DOI 821	DOI 822	DOI 823	DOI 824	DOI 825	DOI 826	DOI 827	DOI 828	DOI 829	DOI 830	DOI 831	DOI 832	DOI 833	DOI 834	DOI 835	DOI 836	DOI 837	DOI 838	DOI 839	DOI 840	DOI 841	DOI 842	DOI 843	DOI 844	DOI 845	DOI 846	DOI 847	DOI 848	DOI 849	DOI 850	DOI 851	DOI 852	DOI 853	DOI 854	DOI 855	DOI 856	DOI 857	DOI 858	DOI 859	DOI 860	DOI 861	DOI 862	DOI 863	DOI 864	DOI 865	DOI 866	DOI 867	DOI 868	DOI 869	DOI 870	DOI 871	DOI 872	DOI 873	DOI 874	DOI 875	DOI 876	DOI 877	DOI 878	DOI 879	DOI 880	DOI 881	DOI 882	DOI 883	DOI 884	DOI 885	DOI 886	DOI 887	DOI 888	DOI 889	DOI 890	DOI 891	DOI 892	DOI 893	DOI 894	DOI 895	DOI 896	DOI 897	DOI 898	DOI 899	DOI 900	DOI 901	DOI 902	DOI 903	DOI 904	DOI 905	DOI 906	DOI 907	DOI 908	DOI 909	DOI 910	DOI 911	DOI 912	DOI 913	DOI 914	DOI 915	DOI 916	DOI 917	DOI 918	DOI 919	DOI 920	DOI 921	DOI 922	DOI 923	DOI 924	DOI 925	DOI 926	DOI 927	DOI 928	DOI 929	DOI 930	DOI 931	DOI 932	DOI 933	DOI 934	DOI 935	DOI 936	DOI 937	DOI 938	DOI 939	DOI 940	DOI 941	DOI 942	DOI 943	DOI 944	DOI 945	DOI 946	DOI 947	DOI 948	DOI 949	DOI 950	DOI 951	DOI 952	DOI 953	DOI 954	DOI 955	DOI 956	DOI 957	DOI 958	DOI 959	DOI 960	DOI 961	DOI 962	DOI 963	DOI 964	DOI 965	DOI 966	DOI 967	DOI 968	DOI 969	DOI 970	DOI 971	DOI 972	DOI 973	DOI 974	DOI 975	DOI 976	DOI 977	DOI 978	DOI 979	DOI 980	DOI 981	DOI 982	DOI 983	DOI 984	DOI 985	DOI 986	DOI 987	DOI 988	DOI 989	DOI 990	DOI 991	DOI 992	DOI 993	DOI 994	DOI 995	DOI 996	DOI 997	DOI 998	DOI 999	DOI 1000	DOI 1001	DOI 1002	DOI 1003	DOI 1004	DOI 1005	DOI 1006	DOI 1007	DOI 1008	DOI 1009	DOI 1010	DOI 1011	DOI 1012	DOI 1013	DOI 1014	DOI 1015	DOI 1016	DOI 1017	DOI 1018	DOI 1019	DOI 1020	DOI 1021	DOI 1022	DOI 1023	DOI 1024	DOI 1025	DOI 1026	DOI 1027	DOI 1028	DOI 1029	DOI 1030	DOI 1031	DOI 1032	DOI 1033	DOI 1034	DOI 1035	DOI 1036	DOI 1037	DOI 1038	DOI 1039	DOI 1040	DOI 1041	DOI 1042	DOI 1043	DOI 1044	DOI 1045	DOI 1046	DOI 1047	DOI 1048	DOI 1049	DOI 1050	DOI 1051	DOI 1052	DOI 1053	DOI 1054	DOI 1055	DOI 1056	DOI 1057	DOI 1058	DOI 1059	DOI 1060	DOI 1061	DOI 1062	DOI 1063	DOI 1064	DOI 1065	DOI 1066	DOI 1067	DOI 1068	DOI 1069	DOI 1070	DOI 1071	DOI 1072	DOI 1073	DOI 1074	DOI 1075	DOI 1076	DOI 1077	DOI 1078	DOI 1079	DOI 1080	DOI 1081	DOI 1082	DOI 1083	DOI 1084	DOI 1085	DOI 1086	DOI 1087	DOI 1088	DOI 1089	DOI 1090	DOI 1091	DOI 1092	DOI 1093	DOI 1094	DOI 1095	DOI 1096	DOI 1097	DOI 1098	DOI 1099	DOI 1100	DOI 1101	DOI 1102	DOI 1103	DOI 1104	DOI 1105	DOI 1106	DOI 1107	DOI 1108	DOI 1109	DOI 1110	DOI 1111	DOI 1112	DOI 1113	DOI 1114	DOI 1115	DOI 1116	DOI 1117	DOI 1118	DOI 1119	DOI 1120	DOI 1121	DOI 1122	DOI 1123	DOI 1124	DOI 1125	DOI 1126	DOI 1127	DOI 1128	DOI 1129	DOI 1130	DOI 1131	DOI 1132	DOI 1133	DOI 1134	DOI 1135	DOI 1136	DOI 1137	DOI 1138	DOI 1139	DOI 1140	DOI 1141	DOI 1142	DOI 1143	DOI 1144	DOI 1145	DOI 1146	DOI 1147	DOI 1148	DOI 1149	DOI 1150	DOI 1151	DOI 1152	DOI 1153	DOI 1154	DOI 1155	DOI 1156	DOI 1157	DOI 1158	DOI 1159	DOI 1160	DOI 1161	DOI 1162	DOI 1163	DOI 1164	DOI 1165	DOI 1166	DOI 1167	DOI 1168	DOI 1169	DOI 1170	DOI 1171	DOI 1172	DOI 1173	DOI 1174	DOI 1175	DOI 1176	DOI 1177	DOI 1178	DOI 1179	DOI 1180	DOI 1181	DOI 1182	DOI 1183	DOI 1184	DOI 1185	DOI 1186	DOI 1187	DOI 1188	DOI 1189	DOI 1190	DOI 1191	DOI 1192	DOI 1193	DOI 1194	DOI 1195	DOI 1196	DOI 1197	DOI 1198	DOI 1199	DOI 1200	DOI 1201	DOI 1202	DOI 1203	DOI 1204	DOI 1205	DOI 1206	DOI 1207	DOI 1208	DOI 1209	DOI 1210	DOI 1211	DOI 1212	DOI 1213	DOI 1214	DOI 1215	DOI 1216	DOI 1217	DOI 1218	DOI 1219	DOI 1220	DOI 1221	DOI 1222	DOI 1223	DOI 1224	DOI 1225	DOI 1226	DOI 1227	DOI 1228	DOI 1229	DOI 1230	DOI 1231	DOI 1232	DOI 1233	DOI 1234	DOI 1235	DOI 1
--------------------	-----	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	-------

Table 1: APF CO Current and its Analytical Results by Well - Metals
Groundwater Monitoring Report
American Felt Filter Company

[illegible]

Table 1: KPOD Cumulative Average Results by Net General Company
Government Printing Report
Fiscal Year 2020

Company/Category	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	2035-36	2036-37	2037-38	2038-39	2039-40	2040-41	2041-42	2042-43	2043-44	2044-45	2045-46	2046-47	2047-48	2048-49	2049-50	2050-51	2051-52	2052-53	2053-54	2054-55	2055-56	2056-57	2057-58	2058-59	2059-60	2060-61	2061-62	2062-63	2063-64	2064-65	2065-66	2066-67	2067-68	2068-69	2069-70	2070-71	2071-72	2072-73	2073-74	2074-75	2075-76	2076-77	2077-78	2078-79	2079-80	2080-81	2081-82	2082-83	2083-84	2084-85	2085-86	2086-87	2087-88	2088-89	2089-90	2090-91	2091-92	2092-93	2093-94	2094-95	2095-96	2096-97	2097-98	2098-99	2099-00	2100-01	2101-02	2102-03	2103-04	2104-05	2105-06	2106-07	2107-08	2108-09	2109-10	2110-11	2111-12	2112-13	2113-14	2114-15	2115-16	2116-17	2117-18	2118-19	2119-20	2120-21	2121-22	2122-23	2123-24	2124-25	2125-26	2126-27	2127-28	2128-29	2129-30	2130-31	2131-32	2132-33	2133-34	2134-35	2135-36	2136-37	2137-38	2138-39	2139-40	2140-41	2141-42	2142-43	2143-44	2144-45	2145-46	2146-47	2147-48	2148-49	2149-50	2150-51	2151-52	2152-53	2153-54	2154-55	2155-56	2156-57	2157-58	2158-59	2159-60	2160-61	2161-62	2162-63	2163-64	2164-65	2165-66	2166-67	2167-68	2168-69	2169-70	2170-71	2171-72	2172-73	2173-74	2174-75	2175-76	2176-77	2177-78	2178-79	2179-80	2180-81	2181-82	2182-83	2183-84	2184-85	2185-86	2186-87	2187-88	2188-89	2189-90	2190-91	2191-92	2192-93	2193-94	2194-95	2195-96	2196-97	2197-98	2198-99	2199-00	2200-01	2201-02	2202-03	2203-04	2204-05	2205-06	2206-07	2207-08	2208-09	2209-10	2210-11	2211-12	2212-13	2213-14	2214-15	2215-16	2216-17	2217-18	2218-19	2219-20	2220-21	2221-22	2222-23	2223-24	2224-25	2225-26	2226-27	2227-28	2228-29	2229-30	2230-31	2231-32	2232-33	2233-34	2234-35	2235-36	2236-37	2237-38	2238-39	2239-40	2240-41	2241-42	2242-43	2243-44	2244-45	2245-46	2246-47	2247-48	2248-49	2249-50	2250-51	2251-52	2252-53	2253-54	2254-55	2255-56	2256-57	2257-58	2258-59	2259-60	2260-61	2261-62	2262-63	2263-64	2264-65	2265-66	2266-67	2267-68	2268-69	2269-70	2270-71	2271-72	2272-73	2273-74	2274-75	2275-76	2276-77	2277-78	2278-79	2279-80	2280-81	2281-82	2282-83	2283-84	2284-85	2285-86	2286-87	2287-88	2288-89	2289-90	2290-91	2291-92	2292-93	2293-94	2294-95	2295-96	2296-97	2297-98	2298-99	2299-00	2300-01	2301-02	2302-03	2303-04	2304-05	2305-06	2306-07	2307-08	2308-09	2309-10	2310-11	2311-12	2312-13	2313-14	2314-15	2315-16	2316-17	2317-18	2318-19	2319-20	2320-21	2321-22	2322-23	2323-24	2324-25	2325-26	2326-27	2327-28	2328-29	2329-30	2330-31	2331-32	2332-33	2333-34	2334-35	2335-36	2336-37	2337-38	2338-39	2339-40	2340-41	2341-42	2342-43	2343-44	2344-45	2345-46	2346-47	2347-48	2348-49	2349-50	2350-51	2351-52	2352-53	2353-54	2354-55	2355-56	2356-57	2357-58	2358-59	2359-60	2360-61	2361-62	2362-63	2363-64	2364-65	2365-66	2366-67	2367-68	2368-69	2369-70	2370-71	2371-72	2372-73	2373-74	2374-75	2375-76	2376-77	2377-78	2378-79	2379-80	2380-81	2381-82	2382-83	2383-84	2384-85	2385-86	2386-87	2387-88	2388-89	2389-90	2390-91	2391-92	2392-93	2393-94	2394-95	2395-96	2396-97	2397-98	2398-99	2399-00	2400-01	2401-02	2402-03	2403-04	2404-05	2405-06	2406-07	2407-08	2408-09	2409-10	2410-11	2411-12	2412-13	2413-14	2414-15	2415-16	2416-17	2417-18	2418-19	2419-20	2420-21	2421-22	2422-23	2423-24	2424-25	2425-26	2426-27	2427-28	2428-29	2429-30	2430-31	2431-32	2432-33	2433-34	2434-35	2435-36	2436-37	2437-38	2438-39	2439-40	2440-41	2441-42	2442-43	2443-44	2444-45	2445-46	2446-47	2447-48	2448-49	2449-50	2450-51	2451-52	2452-53	2453-54	2454-55	2455-56	2456-57	2457-58	2458-59	2459-60	2460-61	2461-62	2462-63	2463-64	2464-65	2465-66	2466-67	2467-68	2468-69	2469-70	2470-71	2471-72	2472-73	2473-74	2474-75	2475-76	2476-77	2477-78	2478-79	2479-80	2480-81	2481-82	2482-83	2483-84	2484-85	2485-86	2486-87	2487-88	2488-89	2489-90	2490-91	2491-92	2492-93	2493-94	2494-95	2495-96	2496-97	2497-98	2498-99	2499-00	2500-01	2501-02	2502-03	2503-04	2504-05	2505-06	2506-07	2507-08	2508-09	2509-10	2510-11	2511-12	2512-13	2513-14	2514-15	2515-16	2516-17	2517-18	2518-19	2519-20	2520-21	2521-22	2522-23	2523-24	2524-25	2525-26	2526-27	2527-28	2528-29	2529-30	2530-31	2531-32	2532-33	2533-34	2534-35	2535-36	2536-37	2537-38	2538-39	2539-40	2540-41	2541-42	2542-43	2543-44	2544-45	2545-46	2546-47	2547-48	2548-49	2549-50	2550-51	2551-52	2552-53	2553-54	2554-55	2555-56	2556-57	2557-58	2558-59	2559-60	2560-61	2561-62	2562-63	2563-64	2564-65	2565-66	2566-67	2567-68	2568-69	2569-70	2570-71	2571-72	2572-73	2573-74	2574-75
------------------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------

Table 1: IFRS10 Consolidated Financial Results by Net General Company

Consolidated Financial Results by Net General Company	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608	1607	1606	1605	1604	1603	1602	1601	1600	1599	1598	1597	1596	1595	1594	1593	1592	1591	1590	1589	1588	1587	1586	1585	1584	1583	1582	1581	1580	1579	1578	1577	1576	1575	1574	1573	1572	1571	1570	1569	1568	1567	1566	1565	1564	1563	1562	1561	1560	1559	1558	1557	1556	1555	1554	1553	1552	1551	1550	1549	1548	1547	1546	1545	1544	1543	1542	1541	1540	1539	1538	1537	1536	1535	1534	1533	1532	1531	1530	1529	1528	1527	1526	1525	1524	1523	1522	1521	1520	1519	1518	1517	1516	1515	1514	1513	1512	1511	1510	1509	1508	1507	1506	1505	1504	1503	1502	1501	1500	1499	1498	1497	1496	1495	1494	1493	1492	1491	1490	1489	1488	1487	1486	1485	1484	1483	1482	1481	1480	1479	1478	1477	1476	1475	1474	1473	1472	1471	1470	1469	1468	1467	1466	1465	1464	1463	1462	1461	1460	1459	1458	1457	1456	1455	1454	1453	1452	1451	1450	1449	1448	1447	1446	1445	1444	1443	1442	1441	1440	1439	1438	1437	1436	1435	1434	1433	1432	1431	1430	1429	1428	1427	1426	1425	1424	1423	1422	1421	1420	1419	1418	1417	1416	1415	1414	1413	1412	1411	1410	1409	1408	1407	1406	1405	1404	1403	1402	1401	1400	1399	1398	1397	1396	1395	1394	1393	1392	1391	1390	1389	1388	1387	1386	1385	1384	1383	1382	1381	1380	1379	1378	1377	1376	1375	1374	1373	1372	1371	1370	1369	1368	1367	1366	1365	1364	1363	1362	1361	1360	1359	1358	1357	1356	1355	1354	1353	1352	1351	1350	1349	1348	1347	1346	1345	1344	1343	1342	1341	1340	1339	1338	1337	1336	1335	1334	1333	1332	1331	1330	1329	1328	1327	1326	1325	1324	1323	1322	1321	1320	1319	1318	1317	1316	1315	1314	1313	1312	1311	1310	1309	1308	1307	1306	1305	1304	1303	1302	1301	1300	1299	1298	1297	1296	1295	1294	1293	1292	1291	1290	1289	1288	1287	1286	1285	1284	1283	1282	1281	1280	1279	1278	1277	1276	1275	1274	1273	1272	1271	1270	1269	1268	1267	1266	1265	1264	1263	1262	1261	1260	1259	1258	1257	1256	1255	1254	1253	1252	1251	1250	1249	1248	1247	1246	1245	1244	1243	1242	1241	1240	1239	1238	1237	1236	1235	1234	1233	1232	1231	1230	1229	1228	1227	1226	1225	1224	1223	1222	1221	1220	1219	1218	1217	1216	1215	1214	1213	1212	1211	1210	1209	1208	1207	1206	1205	1204	1203	1202	1201	1200	1199	1198	1197	1196	1195	1194	1193	1192	1191	1190	1189	1188	1187	1186	1185	1184	1183	1182	1181	1180	1179	1178	1177	1176	1175	1174	1173	1172	1171	1170	1169	1168	1167	1166	1165	1164	1163	1162	1161	1160	1159	1158	1157	1156	1155	1154	1153	1152	1151	1150	1149	1148	1147	1146	1145	1144	1143	1142	1141	1140	1139	1138	1137	1136	1135	1134	1133	1132	1131	1130	1129	1128	1127	1126	1125	1124	1123	1122	1121	1120	1119	1118	1117	1116	1115	1114	1113	1112	1111	1110	1109	1108	1107	1106	1105	1104	1103	1102	1101	1100	1099	1098	1097	1096	1095	1094	1093	1092	1091	1090	1089	1088	1087	1086	1085	1084	1083	1082	1081	1080	1079	1078	1077	1076	1075	1074	1073	1072	1071	1070	1069	1068	1067	1066	1065	1064	1063	1062	1061	1060	1059	1058	1057	1056	1055	1054	1053	1052	1051	1050	1049	1048	1047	1046	1045	1044	1043	1042	1041	1040	1039	1038	1037	1036	1035	1034	1033	1032	1031	1030	1029	1028	1027	1026	1025	1024	1023	1022	1021	1020	1019	1018	1017	1016	1015	1014	1013	1012	1011	1010	1009	1008	1007	1006	1005	1004	1003	1002	1001	1000	999	998	997	996	995	994	993	992	991	990	989	988	987	986	985	984	983	982	981	980	979	978	977	976	975	974	973	972	971	970	969	968	967	966	965	964	963	962	961	960	959	958	957	956	955	954	953	952	951	950	949	948	947	946	945	944	943	942	941	940	939	938	937	936	935	934	933	932	931	930	929	928	927	926	925	924	923	922	921	920	919	918	917	916	915	914	913	912	911	910	909	908	907	906	905	904	903	902	901	900	899	898	897	896	895	894	893	892	891	890	889	888	887	886	885	884	883	882	881	880	879	878	877	876	875	874	873	872	871	870	869	868	867	866	865	864	863	862	861	860	859	858	857	856	855	854	853	852	851	850	849	848	847	846	845	844	843	842	841	840	839	838	837	836	835	834	833	832	831	830	829	828	827	826	825	824	823	822	821	820	819	818	817	816	815	814	813	812	811	810	809	808	807	806	805	804	803	802	801	800	799	798	797	796	795	794	793	792	791	790	789	788	787	786	785	784	783	782	781	780	779	778	777	776	775	774	773	772	771	770	769	768	767	766	765	764	763	762	761	760	759	758	757	756	755	754	753	752	751	750	749	748	747	746	745	744	743	742	741	740	739	738	737	736	735	734	733	732	731	730	729	728	727	726	725	724	723	722	721	720	719	718	717	716	715	714	713	712	711	710	709	708	707	706	705	704	703	702	701	700	699	698	697	696	695	694	693	692	691	690	689	688	687	686	685	684	683	682	681	680	679	678	677	676	675	674	673	672	671	670	669	668	667	666	665	664	663	662	661	660	659	658	657	656	655	654	653	652	651	650	649	648	647	646	645	644	643	642	641	640	639	638	637	636	635	634	633	632	631	630	629	628	627	626	625	624	623	622	621	620	619	618	617	616	61
---	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----

Table 1. AP/CO Comprehensive Analytical Results by Well - Current Chemistry Variables
Groundwater Monitoring Report

Current Chemistry Variables (PDA-112)	NW 25-25-26		NW 25-25-27		NW 25-25-28		NW 25-25-29		NW 25-25-30		NW 25-25-31		NW 25-25-32		NW 25-25-33		NW 25-25-34		NW 25-25-35		NW 25-25-36		NW 25-25-37		NW 25-25-38		NW 25-25-39		NW 25-25-40		NW 25-25-41		NW 25-25-42		NW 25-25-43		NW 25-25-44		NW 25-25-45		NW 25-25-46		NW 25-25-47		NW 25-25-48		NW 25-25-49		NW 25-25-50		NW 25-25-51		NW 25-25-52		NW 25-25-53		NW 25-25-54		NW 25-25-55		NW 25-25-56		NW 25-25-57		NW 25-25-58		NW 25-25-59		NW 25-25-60		NW 25-25-61		NW 25-25-62		NW 25-25-63		NW 25-25-64		NW 25-25-65		NW 25-25-66		NW 25-25-67		NW 25-25-68		NW 25-25-69		NW 25-25-70		NW 25-25-71		NW 25-25-72		NW 25-25-73		NW 25-25-74		NW 25-25-75		NW 25-25-76		NW 25-25-77		NW 25-25-78		NW 25-25-79		NW 25-25-80		NW 25-25-81		NW 25-25-82		NW 25-25-83		NW 25-25-84		NW 25-25-85		NW 25-25-86		NW 25-25-87		NW 25-25-88		NW 25-25-89		NW 25-25-90		NW 25-25-91		NW 25-25-92		NW 25-25-93		NW 25-25-94		NW 25-25-95		NW 25-25-96		NW 25-25-97		NW 25-25-98		NW 25-25-99		NW 25-25-100		NW 25-25-101		NW 25-25-102		NW 25-25-103		NW 25-25-104		NW 25-25-105		NW 25-25-106		NW 25-25-107		NW 25-25-108		NW 25-25-109		NW 25-25-110		NW 25-25-111		NW 25-25-112		NW 25-25-113		NW 25-25-114		NW 25-25-115		NW 25-25-116		NW 25-25-117		NW 25-25-118		NW 25-25-119		NW 25-25-120		NW 25-25-121		NW 25-25-122		NW 25-25-123		NW 25-25-124		NW 25-25-125		NW 25-25-126		NW 25-25-127		NW 25-25-128		NW 25-25-129		NW 25-25-130		NW 25-25-131		NW 25-25-132		NW 25-25-133		NW 25-25-134		NW 25-25-135		NW 25-25-136		NW 25-25-137		NW 25-25-138		NW 25-25-139		NW 25-25-140		NW 25-25-141		NW 25-25-142		NW 25-25-143		NW 25-25-144		NW 25-25-145		NW 25-25-146		NW 25-25-147		NW 25-25-148		NW 25-25-149		NW 25-25-150		NW 25-25-151		NW 25-25-152		NW 25-25-153		NW 25-25-154		NW 25-25-155		NW 25-25-156		NW 25-25-157		NW 25-25-158		NW 25-25-159		NW 25-25-160		NW 25-25-161		NW 25-25-162		NW 25-25-163		NW 25-25-164		NW 25-25-165		NW 25-25-166		NW 25-25-167		NW 25-25-168		NW 25-25-169		NW 25-25-170		NW 25-25-171		NW 25-25-172		NW 25-25-173		NW 25-25-174		NW 25-25-175		NW 25-25-176		NW 25-25-177		NW 25-25-178		NW 25-25-179		NW 25-25-180		NW 25-25-181		NW 25-25-182		NW 25-25-183		NW 25-25-184		NW 25-25-185		NW 25-25-186		NW 25-25-187		NW 25-25-188		NW 25-25-189		NW 25-25-190		NW 25-25-191		NW 25-25-192		NW 25-25-193		NW 25-25-194		NW 25-25-195		NW 25-25-196		NW 25-25-197		NW 25-25-198		NW 25-25-199		NW 25-25-200		NW 25-25-201		NW 25-25-202		NW 25-25-203		NW 25-25-204		NW 25-25-205		NW 25-25-206		NW 25-25-207		NW 25-25-208		NW 25-25-209		NW 25-25-210		NW 25-25-211		NW 25-25-212		NW 25-25-213		NW 25-25-214		NW 25-25-215		NW 25-25-216		NW 25-25-217		NW 25-25-218		NW 25-25-219		NW 25-25-220		NW 25-25-221		NW 25-25-222		NW 25-25-223		NW 25-25-224		NW 25-25-225		NW 25-25-226		NW 25-25-227		NW 25-25-228		NW 25-25-229		NW 25-25-230		NW 25-25-231		NW 25-25-232		NW 25-25-233		NW 25-25-234		NW 25-25-235		NW 25-25-236		NW 25-25-237		NW 25-25-238		NW 25-25-239		NW 25-25-240		NW 25-25-241		NW 25-25-242		NW 25-25-243		NW 25-25-244		NW 25-25-245		NW 25-25-246		NW 25-25-247		NW 25-25-248		NW 25-25-249		NW 25-25-250		NW 25-25-251		NW 25-25-252		NW 25-25-253		NW 25-25-254		NW 25-25-255		NW 25-25-256		NW 25-25-257		NW 25-25-258		NW 25-25-259		NW 25-25-260		NW 25-25-261		NW 25-25-262		NW 25-25-263		NW 25-25-264		NW 25-25-265		NW 25-25-266		NW 25-25-267		NW 25-25-268		NW 25-25-269		NW 25-25-270		NW 25-25-271		NW 25-25-272		NW 25-25-273		NW 25-25-274		NW 25-25-275		NW 25-25-276		NW 25-25-277		NW 25-25-278		NW 25-25-279		NW 25-25-280		NW 25-25-281		NW 25-25-282		NW 25-25-283		NW 25-25-284		NW 25-25-285		NW 25-25-286		NW 25-25-287		NW 25-25-288		NW 25-25-289		NW 25-25-290		NW 25-25-291		NW 25-25-292		NW 25-25-293		NW 25-25-294		NW 25-25-295		NW 25-25-296		NW 25-25-297		NW 25-25-298		NW 25-25-299		NW 25-25-300		NW 25-25-301		NW 25-25-302		NW 25-25-303		NW 25-25-304		NW 25-25-305		NW 25-25-306		NW 25-25-307		NW 25-25-308		NW 25-25-309		NW 25-25-310		NW 25-25-311		NW 25-25-312		NW 25-25-313		NW 25-25-314		NW 25-25-315		NW 25-25-316		NW 25-25-317		NW 25-25-318		NW 25-25-319		NW 25-25-320		NW 25-25-321		NW 25-25-322		NW 25-25-323		NW 25-25-324		NW 25-25-325		NW 25-25-326		NW 25-25-327		NW 25-25-328		NW 25-25-329		NW 25-25-330		NW 25-25-331		NW 25-25-332		NW 25-25-333		NW 25-25-334		NW 25-25-335		NW 25-25-336		NW 25-25-337		NW 25-25-338		NW 25-25-339		NW 25-25-340		NW 25-25-341		NW 25-25-342		NW 25-25-343		NW 25-25-344		NW 25-25-345		NW 25-25-346		NW 25-25-347		NW 25-25-348		NW 25-25-349		NW 25-25-350		NW 25-25-351		NW 25-25-352		NW 25-25-353		NW 25-25-354		NW 25-25-355		NW 25-25-356		NW 25-25-357		NW 25-25-358		NW 25-25-359		NW 25-25-360		NW 25-25-361		NW 25-25-362		NW 25-25-363		NW 25-25-364		NW 25-25-365		NW 25-25-366		NW 25-25-367		NW 25-25-368		NW 25-25-369		NW 25-25-370		NW 25-25-371		NW 25-25-372		NW 25-25-373		NW 25-25-374		NW 25-25-375		NW 25-25-376		NW 25-25-377		NW 25-25-378		NW 25-25-379		NW 25-25-380		NW 25-25-381		NW 25-25-382		NW 25-25-383		NW 25-25-384		NW 25-25-385		NW 25-25-386		NW 25-25-387		NW 25-25-388		NW 25-25-389		NW 25-25-390		NW 25-25-391		NW 25-25-392		NW 25-25-393		NW 25-25-394		NW 25-25-395		NW 25-25-396		NW 25-25-397		NW 25-25-398		NW 25-25-399		NW 25-25-400		NW 25-25-401		NW 25-25-402		NW 25-25-403		NW 25-25-404		NW 25-25-405		NW 25-25-406		NW 25-25-407		NW 25-25-408		NW 25-25-409		NW 25-25-410		NW 25-25-411		NW 25-25-412		NW 25-25-413		NW 25-25-414		NW 25-25-415		NW 25-25-416		NW 25-25-417		NW 25-25-418		NW 25-25-419		NW 25-25-420		NW 25-25-421		NW 25-25-422		NW 25-25-423		NW 25-25-424		NW 25-25-425		NW 25-25-426		NW 25-25-427		NW 25-25-428		NW 25-25-429		NW 25-25-430		NW 25-25-431		NW 25-25-432		NW 25-25-433		NW 25-25-434		NW 25-25-435		NW 25-25-436		NW 25-25-437		NW 25-25-438		NW 25-25-439		NW 25-25-440		NW 25-25-441		NW 25-25-442		NW 25-25-443		NW 25-25-444		NW 25-25-445		NW 25-25-446		NW 25-25-447		NW 25-25-448		NW 25-25-449		NW 25-25-450		NW 25-25-451		NW 25-25-452		NW 25-25-453		NW 25-25-454		NW 25-25-455		NW 25-25-456		NW 25-25-457		NW 25-25-458		NW 25-25-459		NW 25-25-460		NW 25-25-461		NW 25-25-462		NW 25-25-463		NW 25-25-464		NW 25-25-465		NW 25-25-466		NW 25-25-467		NW 25-25-468		NW 25-25-469		NW 25-25-470		NW 25-25-471		NW 25-25-472		NW 25-25-473		NW 25-25-474		NW 25-25-475		NW 25-25-476		NW 25-25-477		NW 25-25-478		NW 25-25-479		NW 25-25-480		NW 25-25-481		NW 25-25-482		NW 25-25-483		NW 25-25-484		NW 25-25-485		NW 25-25-486		NW 25-25-487		NW 25-25-488		NW 25-25-489		NW 25-25-490		NW 25-25-491		NW 25-25-492		NW 25-25-493		NW 25-25-494		NW 25-25-495		NW 25-25-496		NW 25-25-497		NW 25-25-498		NW 25-25-499		NW 25-25-500		NW 25-25-501		NW 25-25-502		NW 25-25-503		NW 25-25-504		NW 25-25-505		NW 25-25-506		NW 25-25-507		NW 25-25-508		NW 25-25-509		NW 25-25-510		NW 25-25-511		NW 25-25-512		NW 25-25-513		NW 25-25-514		NW 25-25-515		NW 25-25-516		NW 25-25-517		NW 25-25-518		NW 25-25-519		NW 25-25-520		NW 25-25-521		NW 25-25-522		NW 25-25-523		NW 25-25-524		NW 25-25-525		NW 25-25-526		NW 25-25-527		NW 25-25-528		NW 25-25-529		NW 25-25-530		NW 25-25-531		NW 25-25-532		NW 25-25-533		NW 25-25-534		NW 25-25-535		NW 25-25-536		NW 25-25-537		NW 25-25-538		NW 25-25-539		NW 25-25-540		NW 25-25-541		NW 25-25-542		NW 25-25-543		NW 25-25-544		NW 25-25-545		NW 25-25-546		NW 25-25-547		NW 25-25-548		NW 25-25-549		NW 25-25-550		NW 25-25-551		NW 25-25-552		NW 25-25-553		NW 25-25-554		NW 25-25-555		NW 25-25-556		NW 25-25-557		NW 25-25-558		NW 25-25-559		NW 25-25-560		NW 25-25-561		NW 25-25-562		NW 25-25-563		NW 25-25-564		NW 25-25-565		NW 25-25-566		NW 25-25-567		NW 25-25-568		NW 25-25-569		NW 25-25-570		NW 25-25-571		NW 25-25-572		NW 25-25-573		NW 25-25-574		NW 25-25-575		NW 25-25-576		NW 25-25-577		NW 25-25-578		NW 25-25-579		NW 25-25-580		NW 25-25-581		NW 25-25-582		NW 25-25-583		NW 25-25-584		NW 25-25-585		NW 25-25-586		NW 25-25-587		NW 25-25-588		NW 25-25-589		NW 25-25-590		NW 25-25-591		NW 25-25-592		NW 25-25-593		NW 25-25-594		NW 25-25-595		NW 25-25-596		NW 25-25-597		NW 25-25-598		NW 25-25-599		NW 25-25-600		NW 25-25-601		NW 25-25-602		NW 25-25-603		NW 25-25-604		NW 25-25-605		NW 25-25-606		NW 25-25-607		NW 25-25-608		NW 25-25-609		NW 25-25-610		NW 25-25-611		NW 25-25-612		NW 25-25-613		NW 25-25-614		NW 25-25-615		NW 25-25-616		NW 25-25-617		NW 25-25-618		NW 25-25-619		NW 25-25-620		NW 25-25-621		NW 25-25-622		NW 25-25-623		NW 25-25-624		NW 25-25-625		NW 25-25-626		NW 25-25-627		NW 25-25-628		NW 25-25-629		NW 25-25-630		NW 25-25-631		NW 25-25-632		NW 25-25-633		NW 25-25-634		NW 25-25-635		NW 25-25-636		NW 25-25-637		NW 25-25-638		NW 25-25-639		NW 25-25-640		NW 25-25-641		NW 25-25-642		NW 25-25-643		NW 25-25-644		NW 25-25-645		NW 25-25-646		NW 25-25-647		NW 25-25-648		NW 25-25-649		NW 25-25-650		NW 25-25-651		NW 25-25-652		NW 25-25-653		NW 25-25-654		NW 25-25-655		NW 25-25-656		NW 25-25-657		NW 25-25-658		NW 25-25-659		NW 25-25-660		NW 25-25-661		NW 25-25-662		NW 25-25-663		NW 25-25-664		NW 25-25-665		NW 25-25-666		NW 25-25-667		NW 25-25-668		NW 25-25-669		NW 25-25-670		NW 25-25-671		NW 25-25-672		NW 25-25-673		NW 25-25-674		NW 25-25-675		NW 25-25-676		NW 25-25-677		NW 25-25-678		NW 25-25-679		NW 25-25-	
---------------------------------------	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	-------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	--------------	--	-----------	--

Figures

**158 West 29th Street
New York, NY 10001**

American Felt & Filter Co.
361 Walsh Avenue
New Windsor, NY

Figure 1

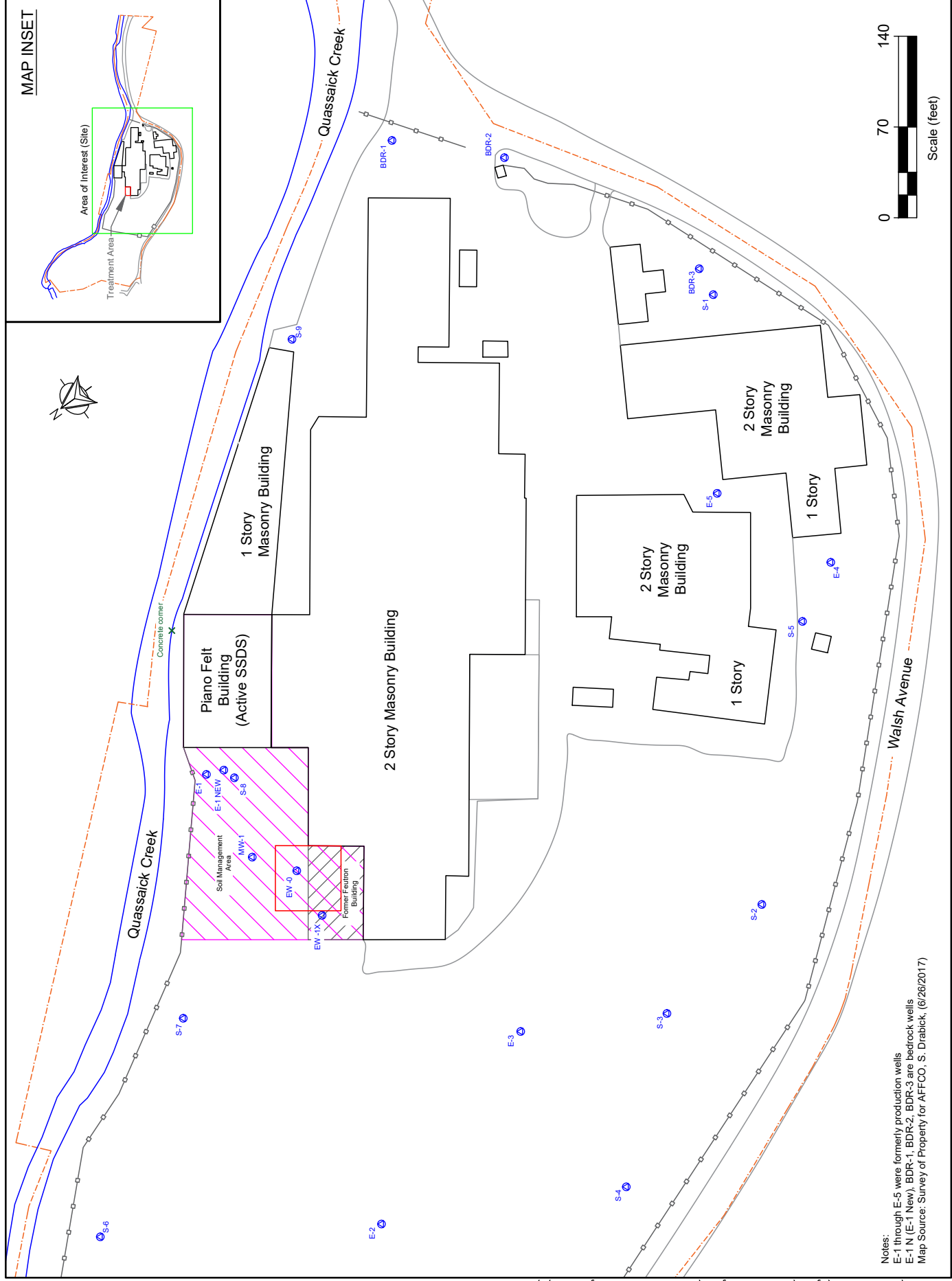
Site Layout & Environmental Easement

April 2021

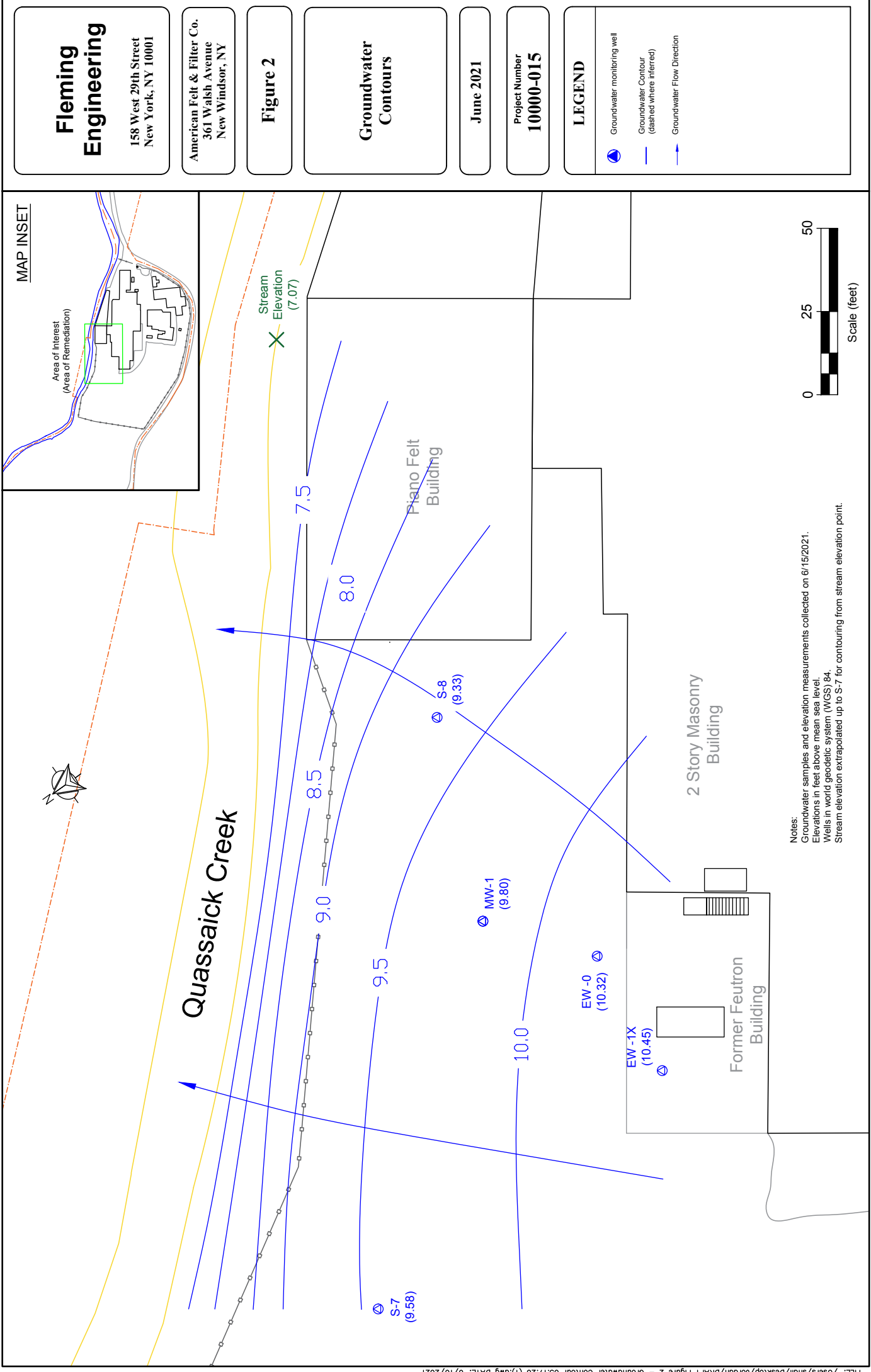
Project Number
10000-015

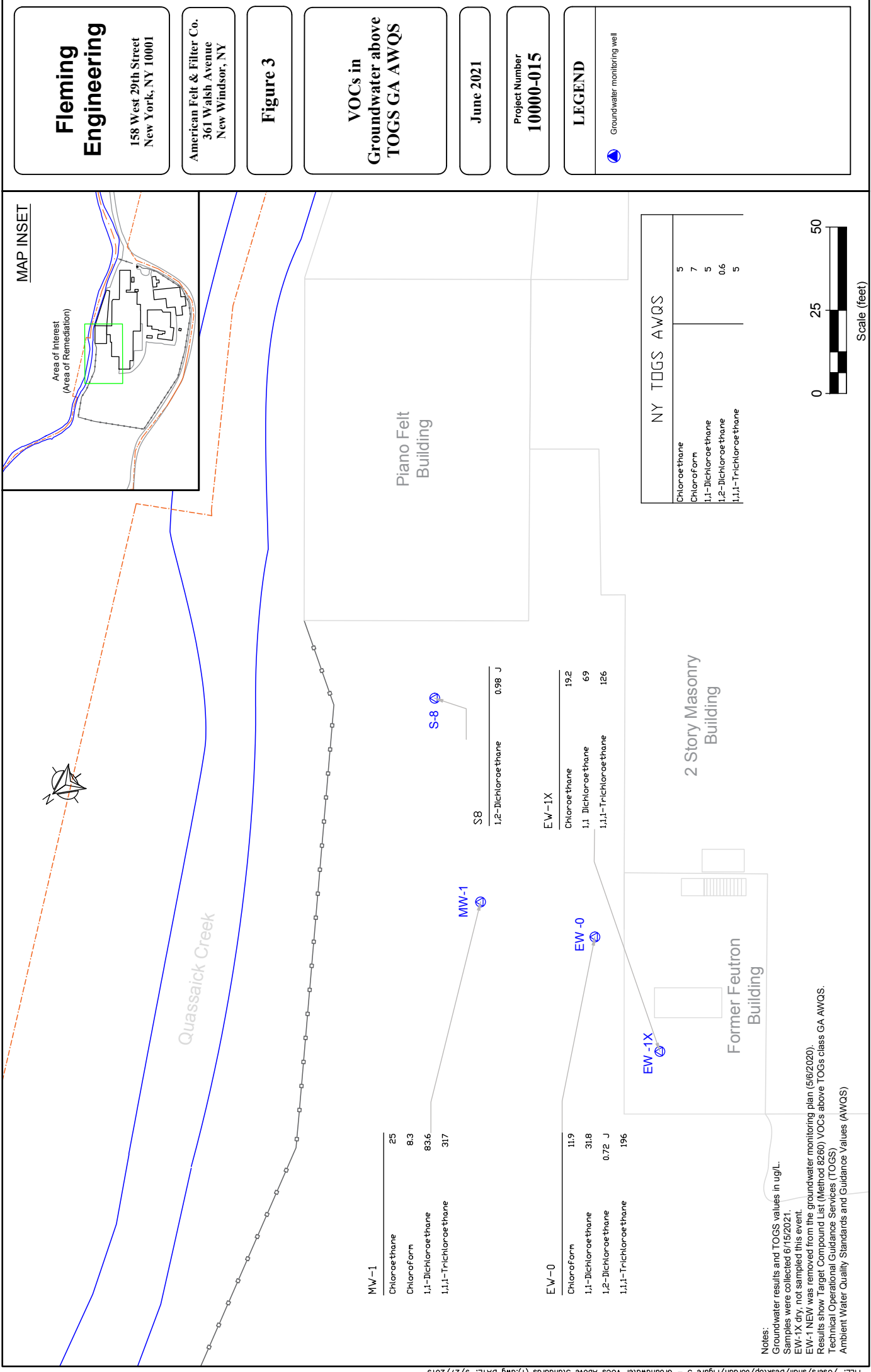
LEGEND

- | | |
|---|---|
|  | Environmental Easement and Soil Management Area |
|  | Extent of Building Demolition |
|  | Area of Remedial Excavation and In-situ Treatment |
|  | Property Line |
|  | Retaining Walls / Fence |
|  | Groundwater Monitoring Well |
|  | |



Notes:
E-1 through E-5 were formerly production wells
E-1 N (E-1 New), BDR-1, BDR-2, BDR-3 are bedrock wells
Map Source: Survey of Property for AFFCO, S. Drabick, (6/26/2017)





FLEMING ENGINEERING

April 16, 2021

Mr. John Spellman, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7016

Re: American Felt and Filter Company (AFFCO), New Windsor, NY
Semiannual Groundwater Monitoring Report No. 1 – April 2021
Site No. 3-36-036; Site Index No. W3-0784-04-06

Dear Mr. Spellman:

Fleming Engineering (FE) is presenting this First Semiannual (SA) Groundwater Monitoring Report for the American Felt and Filter Company (AFFCO) site in New Windsor, New York. The change in groundwater sampling frequency was approved by the Department in its May 6, 2020 approval of AFFCO's petition to reduce the frequency of groundwater sampling and eliminate one well, E1-NEW, from sampling. This first SA groundwater sampling event took place on March 10, 2021.

The Site was remediated between July and September 2012. The remedy was a combination of excavation and *in situ* chemical oxidation (ISCO) using the RemMetrik process (U.S. Patent No. 8,739,867 B2). The *in situ* injection took place in the 50-ft. by 50-ft. treatment area adjacent to the Fuetron Building in July 2012 and excavation occurred in August-September 2012. Post-treatment groundwater sampling took place in April 2013 in order for the treatment chemical, activated sodium persulfate, to fully react. FE prepared a Final Engineering Report (FER) and Site Management Plan (SMP) following the remedy and filed these with the New York State Department of Environmental Conservation (NYSDEC) in 2013 for review and comment. NYSDEC reviewed and approved these documents in 2017 after discussions and revisions made by FE. Quarterly groundwater sampling as outlined in the SMP began in the Second Quarter of 2012 after NYSDEC approved the FER and SMP and issued the Certificate of Completion on April 2, 2018.

A Site Layout Map showing the Site and Environmental Easement and Soil Management Area is included as Figure 1. Figure 2 is a groundwater contour map. Figure 3 identifies groundwater concentrations above NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS) Ambient Water Quality Standards and Guidance Values (Class GA Standards). The monitoring wells sampled, the respective analyses as required by the SMP and approved petition are as follows:

Well	TCL VOCs	Basic Groundwater Parameters ¹	Location
EW-0	x	x	Treatment Area
EW-1X	x	x	Treatment Area
MW-1	x	x	Adjacent to Treatment Area
S8	x	x	Downgradient of Treatment Area

¹ Iron, sulfate, sulfide, chloride, alkalinity

The groundwater results are discussed with respect to pre-treatment groundwater concentrations and concentration trends. The goal is to attain bulk reduction of groundwater concentrations and asymptotic trends in groundwater concentrations.

Data Validation

Data validation and review of the laboratory analytical data for the Target Compound List (TCL) Volatile Organic Compounds (VOCs) was completed by an in-house chemist not directly involved in the project. Data usability summary reports (DUSRs) are included as Appendix A. Data validation found all data usable for project decisions with the understanding of potential biases in estimated results.

The data were submitted to NYSDEC as an Electronic Data Deliverable (EDD) in accordance with Section 1.15 of NYSDEC's May 2010 DER-10 Technical Guidance for Site Investigation and Remediation. The EDD was submitted on April 12, 2021.

Groundwater Sampling & Analysis

Well purging and groundwater sampling were conducted in accordance with the approved Quality Assurance Project Plan (QAPP) and in accordance with the NYSDEC-approved SMP. Each well was purged using a low flow pump, ensuring minimum turbulence to prevent an increase in suspended solids. Each well was purged until groundwater parameters (temperature, pH, dissolved oxygen [DO], conductivity, oxidation reduction potential [ORP], and turbidity) stabilized or three well volumes were purged, or the well purged dry. The typical purge rates measured 200 to 240 milliliters per minute (mL/minute). Well purge logs are included as Appendix B.

FE conducted the current round of groundwater sampling on March 10, 2021. The samples were analyzed by SGS Accutest Laboratories of Dayton, New Jersey, a New York State Environmental Laboratory Approval Program (ELAP) certified laboratory. An electronic copy of the laboratory data report is included as Appendix C. The groundwater samples were managed in accordance with the NYSDEC Analytical Services Protocol (ASP) and analyzed for the following analyses/methods:

- Target Compounds List (TCL) VOCs, EPA Method 8260B
- Sulfate, EPA Method 300/SW846 9056A
- Sulfide, Method SM20 4500S2 F
- Alkalinity, EPA Method SM20 2320B
- Chloride, EPA Method 300

- Methane and Carbon Dioxide, Method RSK-175
- Iron, SW846 6010C
- Iron II, SM3500FE B-11

FE collected field Quality Assurance/Quality Control (QA/QC) samples as part of groundwater sampling. The QA/QC samples included one trip blank, one field blank, and one duplicate sample.

Groundwater Flow

Water level measurements were collected in the monitoring wells as part of the monitoring event and were used to prepare a shallow groundwater contour map as shown in Figure 2. Synoptic groundwater measurements were collected on March 10, 2021. Groundwater flow is towards Quassaick Creek, as expected.

Summary of Analytical Results

The discussion of the analytical results focuses on the principal contaminant, 1,1,1-Trichloroethane (TCA) and Total VOCs. Table 1 presents the analytical results for the current and previous rounds of groundwater sampling.

The semiannual sampling results are plotted and compared to the maximum pre-treatment concentrations for each of the principal contaminants. Groundwater concentrations typically fluctuate, often dramatically, with changing groundwater levels, the seasons, precipitation, and changes in groundwater flow direction throughout the year. This variation can dramatically affect contact between groundwater and contaminant, influence groundwater movement with more or less contaminated strata, affect contaminant migration and retardation through strata of different conductivities, and be influenced by geochemical factors that also occur within different strata. As a result, groundwater contaminant concentrations can fluctuate dramatically from one sampling event to another. Under these conditions, the maximum concentrations likely approximate actual groundwater contaminant concentrations and seem most appropriate as a basis for comparison. For this reason, it is more useful to compare the pre-remedy maximum groundwater concentrations with post-treatment groundwater over time and to use as a gauge of remedy effectiveness.

Treatment Area Wells

Monitoring wells EW-0 and EW-1X are the two monitoring wells within the treatment area. Figures 4 and 5 show the results of groundwater sampling trends for TCA and Total VOCs in the treatment area. Analysis of the 1Q 2021 semiannual groundwater sampling data identified the following trends. Note that monitoring well EW1X was not sampled this period because of insufficient water.

Figure 4 shows that TCA in EW-0 decreased significantly from the last period, decreasing from 10,700 µg/L to 3,140 µg/L. While there remains a high level of variability in this well, TCA concentrations remain well below the pre-treatment maximum by more than an order-of-magnitude.

Figure 5 shows that Total VOCs in EW-0 essentially mirror the concentration of TCA. Total VOCs decreased significantly from the last sampling period, from 16,447 µg/L to 4,970 µg/L in the current period.

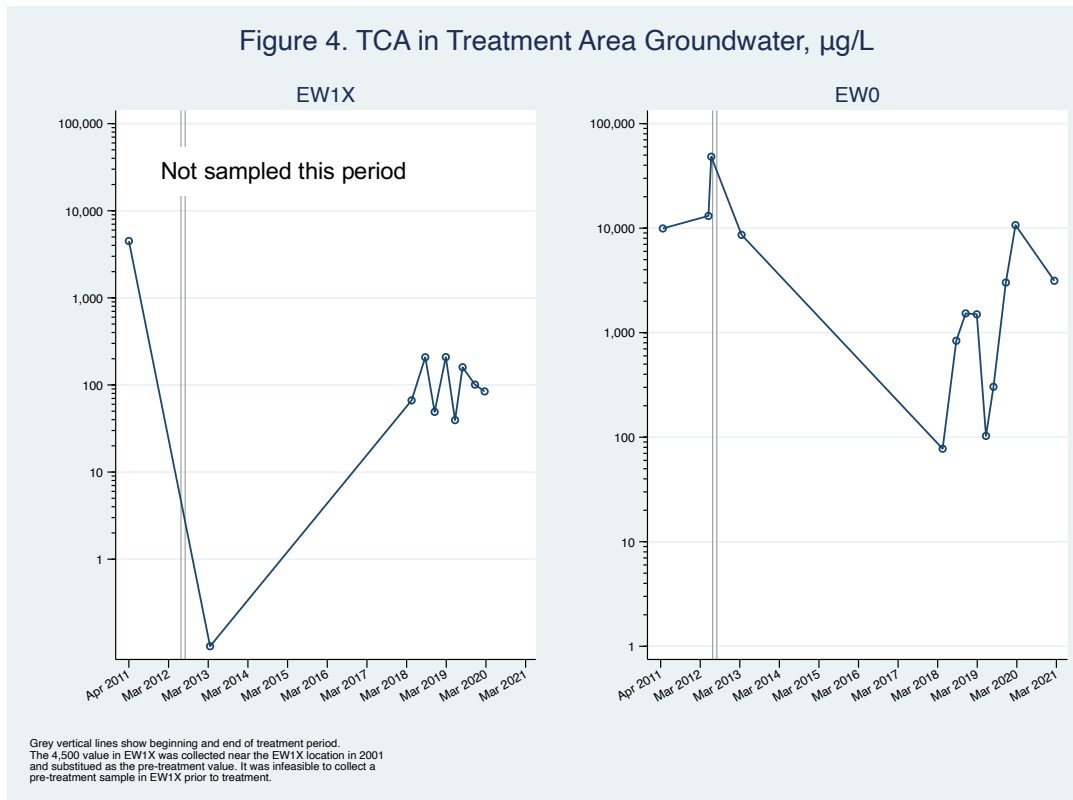
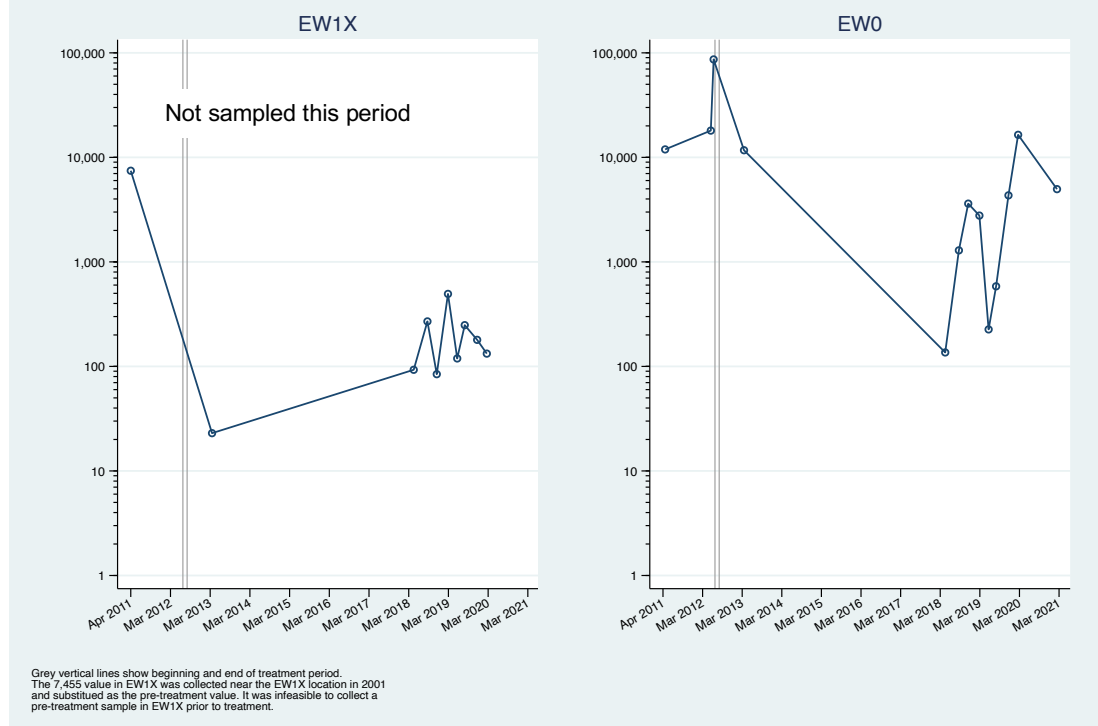


Figure 5. Total VOCs in Treatment Area Groundwater, µg/L

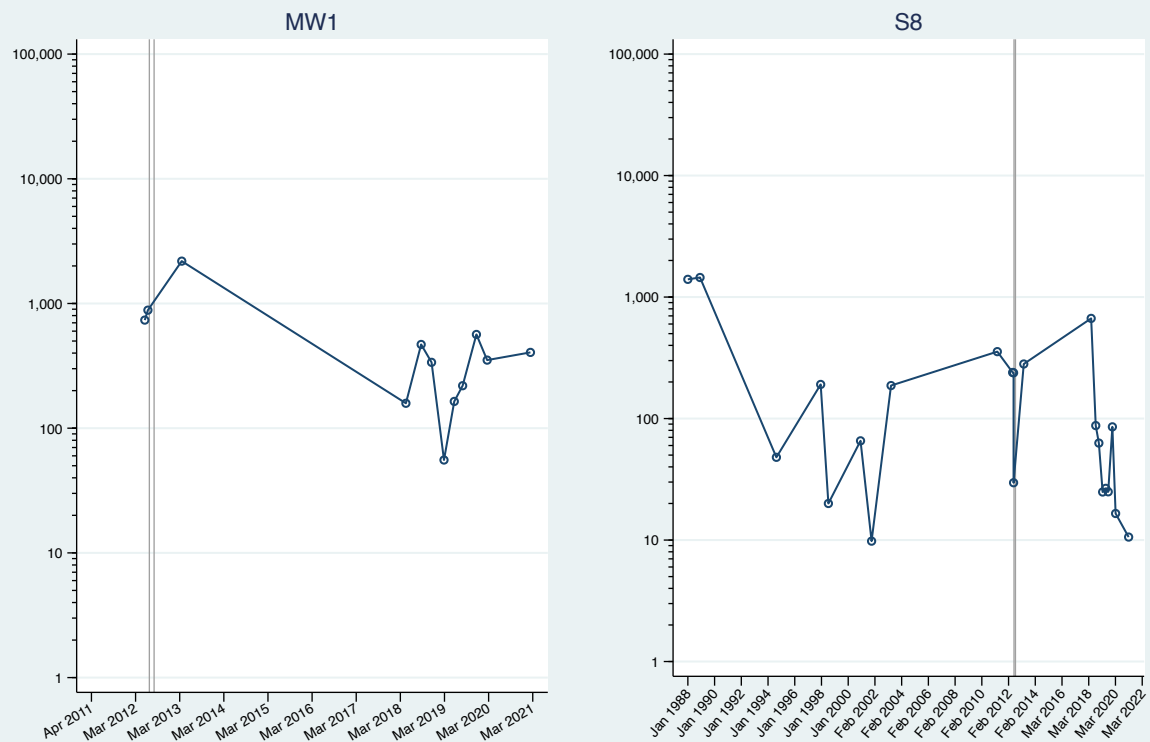


Outside Treatment Area Wells

Monitoring wells MW-1 and S-8, are downgradient and outside the treatment area. Figures 6 and 7 show the results of groundwater sampling trends for TCA and Total VOCs in wells outside the treatment area. TCE in MW-1 remains about the same as previous measurements but still remains approximately an order-of-magnitude below the maximum concentration. TCA in S-8 decreased compared to the previous period and went below one (1) µg/L.

Figure 6. TCA in Groundwater Wells Outside Treatment Area, $\mu\text{g/L}$ 

Total VOCs again mirror those of TCA, remaining about the same in MW-1 and decreasing in S-8.

Figure 7. Total VOCs in Groundwater Wells Outside Treatment Area, $\mu\text{g/L}$ 

Grey vertical lines show beginning and end of treatment period.

Groundwater Geochemical Conditions

Table 2 presents a running statistical summary of the basic groundwater parameters. Table 3 presents a running statistical summary of field groundwater parameters.

Table 2 – Geochemical Parameters

Parameter	Pre-remedy June 2012 n = 4			Post-treatment April 2013, n = 5			Qtr 2, 2018, n = 4/5 May 2018			Qtr 3, 2018 Sept. 2018, n = 5		
	Min	p50	Max	Min	p50	Max	Min	p50	Max	Min	p50	Max
CO ₂ , µg/L	--	--	--	--	--	--	80	2,500	3,090	240	2,220	9,720
CH ₄ , µg/L	--	--	--	--	--	--	0.36	13.9	3,980	4.2	25.9	87.2
Chloride, mg/L	47.7	112.5	162	37.1	52.6	114	16	29.1	102	31.5	49	54.5
Ethane, µg/L	--	--	--	--	--	--	nd	0.27	0.54	nd	0.45	0.77
Ethene, µg/L	--	--	--	--	--	--	nd	nd	0.55	nd	nd	0.58
Sulfate, mg/L	nd	20.2	59.7	nd	29.2	104	3.5	8.75	15.7	nd	11.8	78.2
Sulfide, mg/L	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron, mg/L	1.25	3.4	218	0.546	0.81	934	0.19	1.12	2.23	0.22	1.1	11.6
Iron II, mg/L	--	--	--	--	--	--	nd	nd	nd	nd	nd	1.6
Alkalinity, mg/L	125	201	218	89.2	124	274	47.9	89	248	71.7	121	305
Qtr 1, 2019 March. 2019, n = 5												
	Qtr 4, 2018 Dec. 2018, n = 4/5						Qtr 2, 2019 June 2019, n = 4			Qtr 3, 2019 Aug. 2019, n = 4/5		
	Min	p50	Max				Min	p50	Max	Min	p50	Max
CO ₂ , µg/L	566	2,640	6,460	240	2,050	4,650	296	1,450	3,100	126	3,080	5,920
CH ₄ , µg/L	69.1	389	1,020	1.6	4.9	2,350	0.14	13.3	3,860	0.39	1	66.3
Chloride, mg/L	26.1	79.5	93.4	36.5	79.9	86.6	12.9	38.6	46.5	24.9	32.5	92.1
Ethane, µg/L	nd	3	8.1	nd	nd	0.51	nd	0.13	0.51	nd	nd	1
Ethene, µg/L	nd	nd	4.1	nd	nd	nd	nd	nd	nd	nd	nd	0.37
Sulfate, mg/L	2.2	15.2	18.8	4	21.4	31.4	2.4	6.5	13.3	2.1	8.2	17
Sulfide, mg/L	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron, mg/L	0.13	0.76	1.51	77d	0.6	1.1	nd	0.33	1.7	0.17	1.84	3.38
Iron II, mg/L	nd	nd	0.21	nd	nd	nd	nd	nd	nd	nd	nd	nd
Alkalinity, mg/L	106	171	188	123	151	244	55	91	241	80	123	216
Qtr 4, 2019 Qtr 1, 2020 SA 1, 2021												
	Dec. 2019, n = 5			March 2020, n = 4/5			March 2021, n = 3					
	Min	p50	Max	Min	p50	Max	Min	p50	Max			
CO ₂ , µg/L	173	2,650	3,780	130	2,670	4,590	1,180	1,790	2,330			
CH ₄ , µg/L	7.3	15.8	2,480	10.6	27.4	3,980	19.7	20.8	28.6			
Chloride, mg/L	33.8	78	102	34.1	90.4	178	61	87.4	88.4			
Ethane, µg/L	nd	nd	0.63	nd	0.3	0.57	nd	0	1.4			
Ethene, µg/L	nd	nd	1.2	nd	nd	2.2	nd	nd	0.9			
Sulfate, mg/L	4.7	20	77.9	nd	16.1	78.7	24	30.2	42.5			
Sulfide, mg/L	nd	nd	nd	nd	nd	nd	nd	nd	nd			
Iron, mg/L	0.1	0.53	4.4	nd	1.1	7.03	nd	0.47	1.1			
Iron II, mg/L	nd	nd	nd	nd	nd	nd	nd	nd	nd			
Alkalinity, mg/L	109	126	202	92	191	262	89	102	181			

nd – not detected

Table 3 – Field Parameters

Field Parameter	Pre-remedy July 2012 n = 5			Post-treatment April 2013, n = 5			Qtr 2, 2018 May 2018, n = 4/5			Qtr 3, 2018 Sept. 2018, n = 5		
	Min	p50	Max	Min	p50	Max	Min	p50	Max	Min	p50	Max
pH	7.8	9.5	9.9	7.5	8.5	9.1	7.2	7.6	9.3	6.4	7.5	8.7
Cond., µS/cm	90	593	813	356	522	1,100	152	481	734	344	394	940
NTU	0	24	278	0	57	459	0.3	4	8.9	0.5	2.3	40
DO, mg/L	0	2.19	8.25	0.59	0.65	8.42	0.31	1.8	3.86	0.32	0.56	1.61
Temp. C	15.9	16.9	21.8	10.9	13.2	15.4	12.85	13.9	16.18	18.1	20.7	21.1
ORP, mV	-22	-98	-50	-659	-207	59	-164	-62	154	-223	-74	-73

	Qtr 4, 2018 Dec. 2018, n = 5			Qtr 1, 2019 March 2019, n = 4/5			Qtr 2, 2019 June 2019, n = 5			Qtr 3, 2019 Aug. 2019, n = 5		
	Min	p50	Max	Min	p50	Max	Min	p50	Max	Min	p50	Max
pH	5.35	5.87	7.25	5.48	7	8.7	6.67	7.11	8.2	6.54	6.86	8.35
Cond., µS/cm	0.601	0.890	1.09	0.529	0.56	0.713	0.007	0.338	0.826	0.12	0.45	.048
NTU	0	21.3	63.5	0.1	4.5	87.1	0	1	130	0	0	5
DO, mg/L	0.33	0.9	7.13	0.8	2	4.57	0	0.9	1.3	0	0	0.74
Temp. C	8.8	11.8	12.4	8.6	9.81	11.06	15.8	16.2	17.7	16.4	20.4	22.9
ORP, mV	-105	5	38	-157	4	187	-196	-101	164	-252	16	132

	Qtr 4, 2019 Dec. 2019, n = 5			Qtr 1, 2020 March 2020, n = 5			SA 1, 2021 March 2021, n = 3		
	Min	p50	Max	Min	p50	Max	Min	p50	Max
pH	6.92	7.22	8.61	6.8	6.58	8.4	6.7	7.1	7.6
Cond., µS/cm	0.474	0.525	0.561	0.359	0.735	0.939	0.349	0.367	0.439
NTU	0	1.5	37.2	0	2.1	150	0	0	0
DO, mg/L	0	1.11	1.74	0	0	0.86	0	0	2.05
Temp. C	10.1	10.97	12.3	8.9	9.7	12	9.1	9.5	11
ORP, mV	-17	84	284	-172	10	18	57	73	112

Sulfate is an electron acceptor and an energy source for microbial degradation. Sulfate is reduced to sulfide by microbes degrading contaminant. Sulfate was less than 43 mg/L, and sulfide was non-detect in all site samples this period, indicating that sulfate reduction is not an active biodegradation pathway.

Iron is an electron acceptor and an energy source for microbial degradation. Iron becomes more soluble when reduced to its dissolved state as Iron II (ferrous iron, Fe II) during microbial degradation. The median Fe II concentration was non-detect this period indicating that iron reduction is not an active biodegradation pathway.

Alkalinity is another indicator of microbial degradation and increased in response to microbial changes. Alkalinity this period was similar to the previous period.

Dissolved oxygen (DO) is a key component of aerobic microbial degradation. DO remains low in most wells. The median DO concentration measured 0 mg/L, which is appreciably lower than the 0.5 mg/L considered the threshold for aerobic degradation to begin.

Oxidation Reduction Potential (ORP) was all above zero this period, which is not conducive to reductive dechlorination. Groundwater temperatures ranged from 9 to 11 degrees C this period.

Geochemical results and groundwater field parameters indicate that not much biological activity occurred this period. This is likely due to the cold groundwater temperatures. The decrease in TCA appears due to abiotic degradation. It is possible that biodegradation will increase with warmer temperatures.

Net TCA and Total VOC Reduction in Groundwater

Table 4 shows the percent reduction in TCA and Total VOCs for the treatment area, outside the treatment area, and for all wells compared with the pre-treatment maximum concentrations. TCE and Total VOCs remain significantly lower than the pre-treatment maximum concentrations indicating there is no net material rebound. Overall, despite some fluctuation, TCA maintained a reduction of 93 percent and Total VOCs maintained a 94 percent reduction. This suggests sustained bulk reduction.

Table 4A - Treatment Area Wells¹

Well	TCA % Reduction	Total VOCs % Reduction
EW-1X	--	--
EW-0	88	94
Net Weighted Reduction	94	94

Table 4B - Downgradient Wells

Well	TCA % Reduction	Total VOCs % Reduction
S-8	>99	62
MW-1	-166	38
Net Weighted Reduction	77	88

Table 4C - All Wells

Well	TCA % Reduction	Total VOCs % Reduction
S-8	>99	99
EW-1X	--	--
EW-0	99	94
MW-1	-166	54
Net Weighted Reduction	93	94

¹ % Reduction is the percent reduction for each well compared to its pre-treatment maximum concentration. Net Weighted Reduction is the weighted reduction for all wells in the specific group shown.

Summary and Conclusions

Groundwater sampling results from the 1Q21 SA sampling event show little biological activity this period, possibly due to the cold groundwater temperatures. Nonetheless, TCA and Total VOCs decreased compared to the previous sampling period, most likely due to abiotic processes. Overall, TCA maintained a reduction of 93 percent compared with the pre-treatment maximum and Total VOCs maintained a 94 percent reduction compared with the pre-treatment maximum. This is evidence of sustained bulk reduction. Most wells have only a few detected VOC compounds and fewer still have VOCs above the TOGS GA AWQS. The number of VOCs above TOGS is seven or less (Figure 3).

Please contact us with any comments or questions.

Sincerely,
Fleming-Lee Shue, Inc.



Arnold F. Fleming, P.E.
Remedial Engineer

cc: S. Panter, M. Hutson, FLS

Attachments:

- Figure 1 – Site Location Map
- Figure 2 – Site Plan
- Figure 3 – Groundwater Elevation Contours
- Figure 4 – Groundwater above TOGS - VOCs
- Table 1 – Groundwater Analytical Results
- Table 2 – Consecutive Analytical Results by Well
- Appendix A – Data Usability Summary Report
- Appendix B – Well Development Logs
- Appendix C – Laboratory Reports

Tables

Table 1. IPT-100 Core Data Analysis Results by Year - Alaska

Year	2010-2011		2011-2012		2012-2013		2013-2014		2014-2015		2015-2016		2016-2017		2017-2018		2018-2019		2019-2020		2020-2021		2021-2022		2022-2023		2023-2024		2024-2025		2025-2026		2026-2027		2027-2028		2028-2029		2029-2030		2030-2031		2031-2032		2032-2033		2033-2034		2034-2035		2035-2036		2036-2037		2037-2038		2038-2039		2039-2040		2040-2041		2041-2042		2042-2043		2043-2044		2044-2045		2045-2046		2046-2047		2047-2048		2048-2049		2049-2050		2050-2051		2051-2052		2052-2053		2053-2054		2054-2055		2055-2056		2056-2057		2057-2058		2058-2059		2059-2060		2060-2061		2061-2062		2062-2063		2063-2064		2064-2065		2065-2066		2066-2067		2067-2068		2068-2069		2069-2070		2070-2071		2071-2072		2072-2073		2073-2074		2074-2075		2075-2076		2076-2077		2077-2078		2078-2079		2079-2080		2080-2081		2081-2082		2082-2083		2083-2084		2084-2085		2085-2086		2086-2087		2087-2088		2088-2089		2089-2090		2090-2091		2091-2092		2092-2093		2093-2094		2094-2095		2095-2096		2096-2097		2097-2098		2098-2099		2099-2100		2100-2101		2101-2102		2102-2103		2103-2104		2104-2105		2105-2106		2106-2107		2107-2108		2108-2109		2109-2110		2110-2111		2111-2112		2112-2113		2113-2114		2114-2115		2115-2116		2116-2117		2117-2118		2118-2119		2119-2120		2120-2121		2121-2122		2122-2123		2123-2124		2124-2125		2125-2126		2126-2127		2127-2128		2128-2129		2129-2130		2130-2131		2131-2132		2132-2133		2133-2134		2134-2135		2135-2136		2136-2137		2137-2138		2138-2139		2139-2140		2140-2141		2141-2142		2142-2143		2143-2144		2144-2145		2145-2146		2146-2147		2147-2148		2148-2149		2149-2150		2150-2151		2151-2152		2152-2153		2153-2154		2154-2155		2155-2156		2156-2157		2157-2158		2158-2159		2159-2160		2160-2161		2161-2162		2162-2163		2163-2164		2164-2165		2165-2166		2166-2167		2167-2168		2168-2169		2169-2170		2170-2171		2171-2172		2172-2173		2173-2174		2174-2175		2175-2176		2176-2177		2177-2178		2178-2179		2179-2180		2180-2181		2181-2182		2182-2183		2183-2184		2184-2185		2185-2186		2186-2187		2187-2188		2188-2189		2189-2190		2190-2191		2191-2192		2192-2193		2193-2194		2194-2195		2195-2196		2196-2197		2197-2198		2198-2199		2199-2200		2200-2201		2201-2202		2202-2203		2203-2204		2204-2205		2205-2206		2206-2207		2207-2208		2208-2209		2209-2210		2210-2211		2211-2212		2212-2213		2213-2214		2214-2215		2215-2216		2216-2217		2217-2218		2218-2219		2219-2220		2220-2221		2221-2222		2222-2223		2223-2224		2224-2225		2225-2226		2226-2227		2227-2228		2228-2229		2229-2230		2230-2231		2231-2232		2232-2233		2233-2234		2234-2235		2235-2236		2236-2237		2237-2238		2238-2239		2239-2240		2240-2241		2241-2242		2242-2243		2243-2244		2244-2245		2245-2246		2246-2247		2247-2248		2248-2249		2249-2250		2250-2251		2251-2252		2252-2253		2253-2254		2254-2255		2255-2256		2256-2257		2257-2258		2258-2259		2259-2260		2260-2261		2261-2262		2262-2263		2263-2264		2264-2265		2265-2266		2266-2267		2267-2268		2268-2269		2269-2270		2270-2271		2271-2272		2272-2273		2273-2274		2274-2275		2275-2276		2276-2277		2277-2278		2278-2279		2279-2280		2280-2281		2281-2282		2282-2283		2283-2284		2284-2285		2285-2286		2286-2287		2287-2288		2288-2289		2289-2290		2290-2291		2291-2292		2292-2293		2293-2294		2294-2295		2295-2296		2296-2297		2297-2298		2298-2299		2299-2300		2300-2301		2301-2302		2302-2303		2303-2304		2304-2305		2305-2306		2306-2307		2307-2308		2308-2309		2309-2310		2310-2311		2311-2312		2312-2313		2313-2314		2314-2315		2315-2316		2316-2317		2317-2318		2318-2319		2319-2320		2320-2321		2321-2322		2322-2323		2323-2324		2324-2325		2325-2326		2326-2327		2327-2328		2328-2329		2329-2330		2330-2331		2331-2332		2332-2333		2333-2334		2334-2335		2335-2336		2336-2337		2337-2338		2338-2339		2339-2340		2340-2341		2341-2342		2342-2343		2343-2344		2344-2345		2345-2346		2346-2347		2347-2348		2348-2349		2349-2350		2350-2351		2351-2352		2352-2353		2353-2354		2354-2355		2355-2356		2356-2357		2357-2358		2358-2359		2359-2360		2360-2361		2361-2362		2362-2363		2363-2364		2364-2365		2365-2366		2366-2367		2367-2368		2368-2369		2369-2370		2370-2371		2371-2372		2372-2373		2373-2374		2374-2375		2375-2376		2376-2377		2377-2378		2378-2379		2379-2380		2380-2381		2381-2382		2382-2383		2383-2384		2384-2385		2385-2386		2386-2387		2387-2388		2388-2389		2389-2390		2390-2391		2391-2392		2392-2393		2393-2394		2394-2395		2395-2396		2396-2397		2397-2398		2398-2399		2399-2400		2400-2401		2401-2402		2402-2403		2403-2404		2404-2405		2405-2406		2406-2407		2407-2408		2408-2409		2409-2410		2410-2411		2411-2412		2412-2413		2413-2414		2414-2415		2415-2416		2416-2417		2417-2418		2418-2419		2419-2420		2420-2421		2421-2422		2422-2423		2423-2424		2424-2425		2425-2426		2426-2427		2427-2428		2428-2429		2429-2430		2430-2431		2431-2432		2432-2433		2433-2434		2434-2435		2435-2436		2436-2437		2437-2438		2438-2439		2439-2440		2440-2441		2441-2442		2442-2443		2443-2444		2444-2445		2445-2446		2446-2447		2447-2448		2448-2449		2449-2450		2450-2451		2451-2452		2452-2453		2453-2454		2454-2455		2455-2456		2456-2457		2457-2458		2458-2459		2459-2460		2460-2461		2461-2462		2462-2463		2463-2464		2464-2465		2465-2466		2466-2467		2467-2468		2468-2469		2469-2470		2470-2471		2471-2472		2472-2473		2473-2474		2474-2475		2475-2476		2476-2477		2477-2478		2478-2479		2479-2480		2480-2481		2481-2482		2482-2483		2483-2484		2484-2485		2485-2486		2486-2487		2487-2488		2488-2489		2489-2490		2490-2491		2491-2492		2492-2493		2493-2494		2494-2495		2495-2496		2496-2497		2497-2498		2498-2499		2499-2500		2500-2501		2501-2502		2502-2503		2503-2504		2504-2505		2505-2506		2506-2507		2507-2508		2508-2509		2509-2510		2510-2511		2511-2512		2512-2513		2513-2514		2514-2515		2515-2516		2516-2517		2517-2518		2518-2519		2519-2520		2520-2521		2521-2522		2522-2523		2523-2524		2524-2525		2525-2526		2526-2527		2527-2528		2528-2529		2529-2530		2530-2531		2531-2532		2532-2533		2533-2534		2534-2535		2535-2536		2536-2537		2537-2538		2538-2539		2539-2540		2540-2541		2541-2542		2542-2543		2543-2544		2544-2545		2545-2546		2546-2547		2547-2548		2548-2549		2549-2550		2550-2551		2551-2552		2552-2553		2553-2554		2554-2555		2555-2556		2556-2557		2557-2558		2558-2559		2559-2560		2560-2561		2561-2562		2562-2563		2563-2564		2564-2565		2565-2566		2566-2567		2567-2568		2568-2569		2569-2570		2570-2571		2571-2572		2572-2573		2573-2574		2574-2575		2575-2576		2576-2577		2577-2578		2578-2579		2579-2580		2580-2581		2581-2582		2582-2583		2583-2584		2584-2585		2585-2586		2586-2587		2587-2588		2588-2589		2589-2590		2590-2591		2591-2592		2592-2593		2593-2594		2594-2595		2595-2596		2596-2597		2597-2598		2598-2599		2599-2600		2600-2601		2601-2602		2602-2603		2603-2604		2604-2605		2605-2606		2606-2607		2607-2608		2608-2609		2609-2610		2610-2611		2611-2612		2612-2613		2613-2614		2614-2615		2615-2616		2616-2617		2617-2618		2618-2619		2619-2620		2620-2621		2621-2622		2622-2623		2623-2624		2624-2625		2625-2626		2626-2627		2627-2628		2628-2629		2629-2630		2630-2631		2631-2632		2632-2633		2633-2634		2634-2635		2635-2636		2636-2637		2637-2638		2638-2639		2639-2640		2640-2641		2641-2642		2642-2643		2643-2644		2644-2645		2645-2646		2646-2647		2647-2648		2648-2649		2649-2650		2650-2651		2651-2652		2652-2653		2653-2654		2654-2655		2655-2656		2656-2657		2657-2658		2658-2659		2659-2660		2660-2661		2661-2662		2662-2663		2663-2664		2664-2665		2665-2666		2666-2667		2667-2668		2668-2669		2669-2670		2670-2671		2671-2672		2672-2673		2673-2674		2674-2675		2675-2676		2676-2677		2677-2678		2678-2679		2679-2680		2680-2681		2681-2682		2682-2683		2683-2684		2684-2685		2685-2686		2686-2687		2687-2688		2688-2689		2689-2690		2690-2691		2691-2692		2692-2693		2693-2694		2694-2695		2695-2696		2696-2697		2697-2698		2698-2699		2699-2700		2700-2701		2701-2702		2702-2703		2703-2704		2704-2705		2705-2706		2706-2707		2707-2708		2708-2709		2709-2710		2710-2711		2711-2712		2712-2713		2713-2714		2714-2715		2715-2716		2716-2717		2717-2718		2718-2719		2719-2720		2720-2721		2721-2722		2722-2723		2723-2724		2724-2725		2725-2726		2726-2727		2727-2728		2728-2729		2729-2730		2730-2731		2731-2732		2732-2733		2733-2734		2734-2735		2735-2736		2736-2737		2737-2738</	
------	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-------------	--

Table 1: KPMG Consolidated Audit Results by Unit - General Company
Guangdong Accounting Report
Parent and Subsidiary Company

Unit Name	2023		2022		2021		2020		2019		2018		2017		2016		2015		2014		2013		2012		2011		2010		2009		2008		2007		2006		2005		2004		2003		2002		2001		2000		1999		1998		1997		1996		1995		1994		1993		1992		1991		1990		1989		1988		1987		1986		1985		1984		1983		1982		1981		1980		1979		1978		1977		1976		1975		1974		1973		1972		1971		1970		1969		1968		1967		1966		1965		1964		1963		1962		1961		1960		1959		1958		1957		1956		1955		1954		1953		1952		1951		1950		1949		1948		1947		1946		1945		1944		1943		1942		1941		1940		1939		1938		1937		1936		1935		1934		1933		1932		1931		1930		1929		1928		1927		1926		1925		1924		1923		1922		1921		1920		1919		1918		1917		1916		1915		1914		1913		1912		1911		1910		1909		1908		1907		1906		1905		1904		1903		1902		1901		1900		1899		1898		1897		1896		1895		1894		1893		1892		1891		1890		1889		1888		1887		1886		1885		1884		1883		1882		1881		1880		1879		1878		1877		1876		1875		1874		1873		1872		1871		1870		1869		1868		1867		1866		1865		1864		1863		1862		1861		1860		1859		1858		1857		1856		1855		1854		1853		1852		1851		1850		1849		1848		1847		1846		1845		1844		1843		1842		1841		1840		1839		1838		1837		1836		1835		1834		1833		1832		1831		1830		1829		1828		1827		1826		1825		1824		1823		1822		1821		1820		1819		1818		1817		1816		1815		1814		1813		1812		1811		1810		1809		1808		1807		1806		1805		1804		1803		1802		1801		1800		1799		1798		1797		1796		1795		1794		1793		1792		1791		1790		1789		1788		1787		1786		1785		1784		1783		1782		1781		1780		1779		1778		1777		1776		1775		1774		1773		1772		1771		1770		1769		1768		1767		1766		1765		1764		1763		1762		1761		1760		1759		1758		1757		1756		1755		1754		1753		1752		1751		1750		1749		1748		1747		1746		1745		1744		1743		1742		1741		1740		1739		1738		1737		1736		1735		1734		1733		1732		1731		1730		1729		1728		1727		1726		1725		1724		1723		1722		1721		1720		1719		1718		1717		1716		1715		1714		1713		1712		1711		1710		1709		1708		1707		1706		1705		1704		1703		1702		1701		1700		1699		1698		1697		1696		1695		1694		1693		1692		1691		1690		1689		1688		1687		1686		1685		1684		1683		1682		1681		1680		1679		1678		1677		1676		1675		1674		1673		1672		1671		1670		1669		1668		1667		1666		1665		1664		1663		1662		1661		1660		1659		1658		1657		1656		1655		1654		1653		1652		1651		1650		1649		1648		1647		1646		1645		1644		1643		1642		1641		1640		1639		1638		1637		1636		1635		1634		1633		1632		1631		1630		1629		1628		1627		1626		1625		1624		1623		1622		1621		1620		1619		1618		1617		1616		1615		1614		1613		1612		1611		1610		1609		1608		1607		1606		1605		1604		1603		1602		1601		1600		1599		1598		1597		1596		1595		1594		1593		1592		1591		1590		1589		1588		1587		1586		1585		1584		1583		1582		1581		1580		1579		1578		1577		1576		1575		1574		1573		1572		1571		1570		1569	
NY 1022.6 mVA	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

Figures

**158 West 29th Street
New York, NY 10001**

American Felt & Filter Co.
361 Walsh Avenue
New Windsor, NY

Figure 1

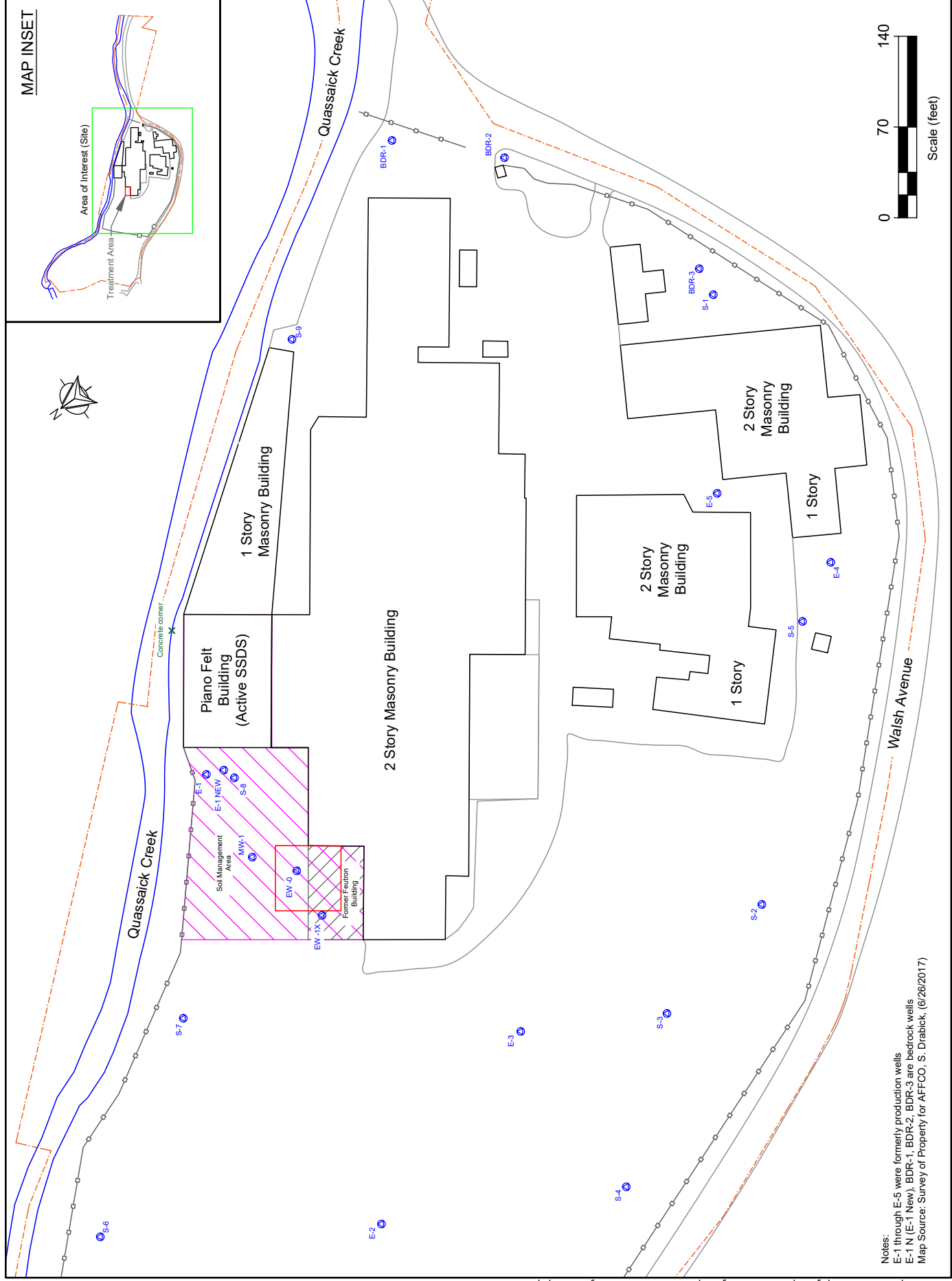
Site Layout & Environmental Easement

April 2021

Project Number
10000-015

LEGEND

- | | |
|---|--|
|  | Environmental Easement and Soil Management Area |
|  | Extent of Building Demolition |
|  | Area of Remedial Excavation and <i>In-situ</i> Treatment |
|  | Property Line |
|  | Retaining Walls / Fence |
|  | Groundwater Monitoring Well |



Notes:
E-1 through E-5 were formerly production wells
E-1 N (E-1 New), BDR-1, BDR-2, BDR-3 are bedrock wells
Map Source: Survey of Property for AFFCO, S. Drabick, (6/26/2017)

**158 West 29th Street
New York, NY 10001**

American Felt & Filter Co.
361 Walsh Avenue
New Windsor, NY

Figure 2

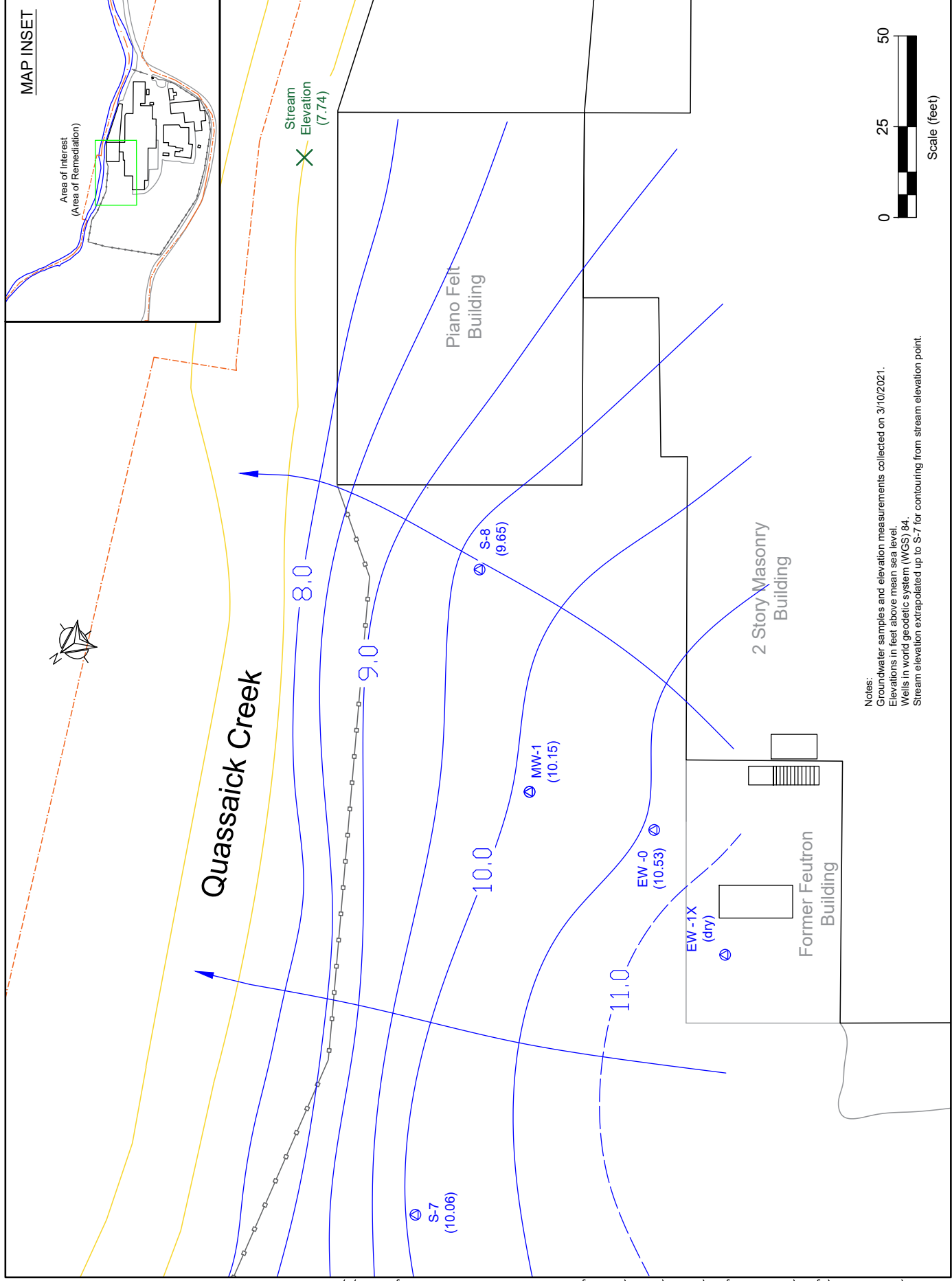
Groundwater Contours

March 2021

Project Number
10000-015

LEGEND

- Groundwater monitoring well
- Groundwater Contour
(dashed where inferred)
- Groundwater Flow Direction



Notes:

- Groundwater samples and elevation measurements collected on 3/10/2021.
- Elevations in feet above mean sea level.
- Wells in world geodetic system (WGS) 84.
- Stream elevation extrapolated up to S-7 for contouring from stream elevation point.

**158 West 29th Street
New York, NY 10001**

American Felt & Filter Co.
361 Walsh Avenue
New Windsor, NY

Figure 3

**VOCs in
Groundwater above
TOGS GA AWQS**

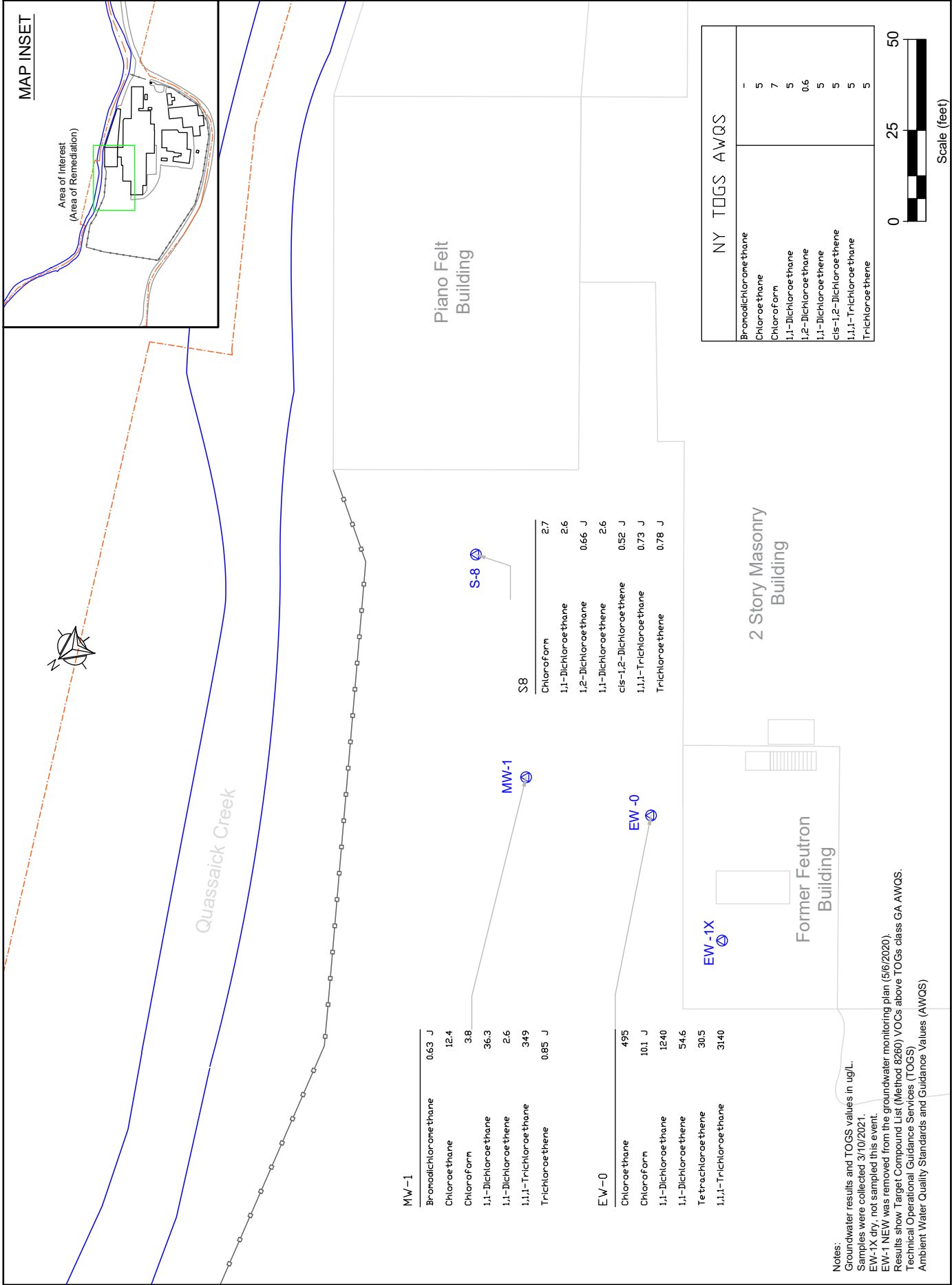
March 2021

Project Number
10000-015

LEGEND



Groundwater monitoring well

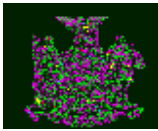


Periodic Review Report

AFFCO

Appendix D

Institutional & Engineering Control 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. **336036**

Site Name **American Felt & Filter Company, Inc.**

Site Address: Walsh Avenue Zip Code: 12550
City/Town: New Windsor
County: Orange
Site Acreage: 0.545

Reporting Period: August 02, 2020 to August 02, 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 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

SITE NO. 336036

Box 3

Description of Institutional Controls

Parcel

Owner

Institutional Control

Part of 9-1-69.2

AMERICAN FELT & FILTER

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

- Landuse restricted to commercial and industrial uses
- Groundwater use restricted
- Compliance with a site management plan
- Periodic Certification of ICs and ECs

Box 4

Description of Engineering Controls

Parcel

Engineering Control

Part of 9-1-69.2

Vapor Mitigation

- Subslab depressurization system operating in piano felt building.

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

☒ ☐

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

☒ ☐

**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. 336036

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 Scott H Pryne at 361 Walsh Ave New Windsor NY 12553
print name print business address

am certifying as Senior Vice President (Owner or Remedial Party)

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

Scott H Pryne
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

7/13/21
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 ARNOLD F FLEMING at 158 W 29th ST. NY NY 10001,
print name print business address

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

Arnold F. Fleming
Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification



7/19/21
Date