

Geotechnical Environmental Site Civil

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2024 Periodic Review Report

For:

Former A.C. Dutton Lumber Yard
Street Address
Dutchess County, New York

Prepared for:

The O'Neill Group—Dutton, LLC

SESI Project No:

09039G

Date:

May 2024

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LIST OF ACRONYMS

Acronym	Definition
AWQS	Ambient Water Quality Standards
BCA	Brownfield Cleanup Agreement
ВСР	Brownfield Cleanup Program
bgs	Below ground surface
CCA	Chromated Copper Arsenate
COC	Contaminant of Concern
DER	Division of Environmental Remediation
DER-10	NYSDEC Technical Guidance for Site Investigation & Remediation
ECs	Engineering Controls
EE	Environmental Easement
Ics	Institutional Controls
MW	Monitoring Well
NYSDEC	New York State Department of Environmental Conservation
PAH	Polycyclic Aromatic Hydrocarbons
ppm	Parts per million
PRR	Periodic Review Report
RDWP	Remedial Design Work Plan
SCO	Soil Cleanup Objectives
SESI	SESI Consulting Engineers, PC
SMP	Site Management Plan
SVOCs	Semi-Volatile Organic Compounds
TOGS	Technical and Operations Guidance Series
VOCs	Volatile Organic Compounds

1.0 INTRODUCTION

1.1 SUMMARY

This is the Periodic Review Report (PRR) for the period April 1, 2023 to April 1, 2024. The PRR is required as an element of the remedial program at the Former AC Dutton Lumber Yard (hereinafter referred to as the "Site") under the New York State Brownfield Cleanup Program (BCP) administered by New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index # 1066-05-05, Site #C314081, which was executed on July 6, 2005 and last amended on February 4, 2011. The Site area is 11.8 acres. Engineering Controls (ECs) have been constructed on the Site to prevent exposure to the remaining residual contamination during Site use. An Environmental Easement (EE) granted to the NYSDEC, and recorded with the Dutchess County Clerk, requires compliance with the Site Management Plan (SMP) dated December 2014 and all ECs and Institutional Controls (ICs) placed on the Site. The ICs place restrictions on Site use and mandate operation, maintenance, monitoring and reporting measures for all ECs and ICs. A Site Location Map is provided in Figure 1.1 of Appendix A. All SMP figures are included in Appendix A of this report.

This PRR reports the required inspection and monitoring activities that were conducted during the current reporting period. The inspection and monitoring were conducted to ensure compliance with all ECs and ICs required by the EE and as stated in the SMP as approved by the NYSDEC.

1.2 EFFECTIVENESS OF REMEDIAL PROGRAM

Residual contamination remains on the Site, which has been managed according to the requirements of the SMP to keep the Site safe for commercial and restricted residential uses.

The composite cover system has changed due to the addition of the constructed buildings. The building construction for Phase 1 and Phase 2 of the development was completed in July 2023. Completion of Phase 3 is anticipated to be completed during the next reporting period. The SMP will be updated with the new cover system elements and as-built drawings once the building construction has been completed. The cover system

has been and will continue to be effective in preventing public exposure to the residual contamination left on Site beneath the cover system.

The annual sampling of the monitoring well network to determine the effectiveness of the natural degradation of the residual contaminants of concern was conducted on March 21, 2024. The monitoring well network consists of the following:

- Monitoring well PR-MW-2
- Monitoring well PR-MW-4

Based upon comparison with historical sampling events, the concentrations of arsenic are trending down and are below the TOGS levels in PR-MW-4 and have reached asymptotic levels in PR-MW-2.

The monitoring plan, as required in the SMP, is effective and protective of human health and the environment.

1.3 COMPLIANCE

SESI completed a site inspection on March 21, 2024 to verify the integrity of the ECs in accordance with the Inspection Checklist and photo log provided in **Appendix B**.

The groundwater monitoring wells PR-MW-2 and PR-MW-4 were sampled on March 21, 2024, and analyzed for metals in accordance with the monitoring program in the SMP.

1.4 RECOMMENDATIONS AND CONCLUSIONS

SESI has verified that the ECs and ICs developed for the Site are in compliance with the SMP. We recommend the following for the next reporting period:

- Groundwater Monitoring: Based upon comparison with historical sampling events, the concentrations of arsenic are trending down and are below the TOGS levels in PR-MW-4 and have reached asymptotic levels in PR-MW-2. Therefore, additional monitoring is no longer warranted. SESI recommends discontinuance of groundwater monitoring.
- Cover System: Continued annual visual inspection of the cover system.

2.0 SITE OVERVIEW

2.1 SITE LOCATION AND DESCRIPTION

The Site is located in the City and Town of Poughkeepsie, County of Dutchess, New York and comprises two (2) lots (City of Poughkeepsie Tax ID: 6062-59-766443 and Town of Poughkeepsie (Tax ID: 6062-02-763508) on the City and Town of Poughkeepsie Tax Maps. The Site is an approximately 11.8-acre area bounded by Hudson River Rowing Association Dock (owned by Vassar College) to the north, a former natural gas regulation station (owned by Central Hudson Gas & Electric) to the south, North Water Street to the east, and a 2.45-acre parcel along the Hudson River to the west owned by the State of New York.

2.2 SITE HISTORY

The Site was utilized for industrial use from the mid-19th century to 1995. Before 1913, uses of the Site included an iron works and a glass works at the southern portion of the property. Several kilns were associated with the glass works, and kiln ash and slag were reportedly used as fill material on the Site. The on-site pressure treatment of lumber using chromated copper arsenate (CCA) reportedly began in 1966 by the A.C. Dutton Lumber Corporation and continued until 1995, when on-Site operations ceased. During lumber processing activities, raw lumber was brought to the Site by truck, boat, and rail. Lumber was processed in the on-Site pressure treatment plants and then dried and stored outside. Complete Site history can be found in the following documents:

- Phase I Investigation Report, dated November 1987, prepared by EnviroPlan Associates, Inc.
- Phase I Environmental Site Assessment, dated August 8, 2002, prepared by Ecosystems Strategies, Inc.
- Summary Report of Sub-structure Investigations, dated October 3, 2002, prepared by Ecosystems Strategies, Inc.; and
- Summary Report of Supplemental Subsurface Investigation, dated November 25, 2002, prepared by Ecosystems Strategies Inc.

2.2.1 REMEDIAL INVESTIGATION (RI) CONDUCTED AT THE SITE

<u>Soil</u>

The areas surrounding the two (2) pre-existing pressure treatment buildings were the most highly impacted by metals contamination. Investigations showed impacts to deposit/soil in the interior collection drains of one (1) of the pressure treatment buildings as high as 138,000 parts per million (ppm) of arsenic. Chromium and copper were detected in that same location at 98,600 ppm and 8,290 ppm, respectively. That was the maximum concentration of chromium detected at the Site. The highest concentration of copper detected at the Site was 30,700 ppm.

Surface soil – The entire Site is impacted by arsenic, likely the result of the storage of treated lumber in exposed areas. Concentrations of arsenic in surface soil identified during the RI ranged from non-detect to 811 ppm.

Subsurface soil — Subsurface soil was impacted by arsenic across the Site. Concentrations tended to decrease with increasing depth, and most impacts were limited to one (1) foot below the ground surface with areas of deeper impacts to three (3) feet. The soils in the vicinity of the chemical storage tanks in the pressure treatment buildings were impacted by arsenic and chromium to greater depths (8 feet or more). There were four (4) areas of petroleum impacted soils. Soil samples from these areas showed very limited impacts by volatile organic compounds (VOCs) or semi-volatile organic compounds (SVOCs).

Site-Related Groundwater

Limited impacts to groundwater by metals were identified during the RI. Impacts were limited to isolated locations near the pressure treatment buildings. Contaminants associated with petroleum products (i.e. VOCs and SVOCs) were not detected during the RI in groundwater samples collected from the vicinity of the petroleum impacted areas.

Site-Related Soil Vapor Intrusion

There was no soil vapor intrusion investigation conducted on Site due to the low levels of VOCs detected in the soil and groundwater.

Underground Storage Tanks

Four (4) areas of known or suspected petroleum impacted soil have been documented on Site at the locations of known or suspected underground storage tanks. Limited associated groundwater contamination has also been documented. Petroleum impacted soils have been documented at the following locations: south and southwest of the northern former pressure treatment plant building; under and around the large office building; immediately northeast of the southern former pressure treatment plant building; and southwest of the former garage/automotive repair building at the southern end of the Site.

2.2.2 DESCRIPTION OF REMEDIAL ACTIONS

The Site was remediated in accordance with the NYSDEC-approved Remedial Design Work Plan (RDWP) dated May 2011, an Addendum to the approved RDWP, dated November 7, 2011, and a minor modification to the RDWP dated December 4, 2012.

The following is a summary of the Remedial Actions performed at the Site:

- Excavation of asphalt/soil/fill/concrete exceeding the Site-specific guidance level
 of 300 mg/kg (ppm) for arsenic and restricted residential soil cleanup objectives
 (SCOs) for other contaminants of concern (COCs). The guidance level for
 arsenic was modified by the NYSDEC during remediation and included the
 stipulation that a four-foot barrier layer of clean fill be installed.
- Removal of all chemical bulk storage tanks, their contents, and associated CCA impacted debris;
- 3. Scarification of the floor of the Southern Pressure Plant Building to a depth of ½ inch or until there was no visual evidence of staining;
- 4. Removal of five (5) petroleum bulk storage tanks from the Site;
- 5. Demolition of on-Site structures;
- 6. Construction and maintenance of a soil cover system to prevent human exposure to remaining contaminated soil/fill. Soil/fill remaining at the Site consists of two

- (2) feet of clean soil, a demarcation layer and 4-6 feet of fill with slight polycyclic aromatic hydrocarbons (PAH) exceedance of the restricted residential SCO approved by the NYSDEC. The cover also includes a minimum of 6-inch newly installed paving system or concrete during the Site development into restricted-residential/commercial use.
- 7. The Site was dynamically compacted and any proposed buildings will be surcharged for settlement. This combined compaction will minimize the disturbance of the Site soils and allowed for a shallower building foundation installation.
- 8. Groundwater monitoring: four (4) groundwater monitoring wells (MW) were installed on-Site after the completion of the remediation. The MWs were sampled semi-annually for the first year. Additional subsequent sampling was approved for a reduction to an annual sampling frequency.
- 9. Execution and recording of an EE to restrict land use and prevent future exposure to any contamination remaining at the Site.
- 10. Development and implementation of a Site Management Plan for long-term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting.

2.2.3 REMOVAL OF CONTAMINATED MATERIALS FROM THE SITE

As part of the Remedial Action, various contaminated materials were removed and disposed off-Site. The materials removed from the Site and their quantities are listed in **Table 2.1** below.

Table 2.1: Summary of Materials Removed for Off-site Disposal

Material Removed	Volume of material Removed	Disposal Location	Disposal Period/Date
Non-Haz w astew ater from STP secondary containment area	21,625-gallons	Paradise Heating Oil	10/10/11 through 10/11/2011
Hazardous CBS tank residue from tanks in NTP and STP	2,900-gallons	Pro-Teck	10/13/2011
	1088-gallons diesel/fuel oil	4.5.0"	10/19/2011
Non-Haz CBS/PBS tank residues from NTP and STP	100-gallons non-haz liquid	AB Oil Services	10/21/2011
	2,390 non-haz liquid	OCIVICCS	10/22/2011
Scarification waste from STP	(39) 55-gallon drums scarification waste.	Model City	10/8/2012
	(1) 55-gallon drum debris		
CCA contaminated a soil and concrete from NTP and STP (FO35 hazardous w aste direct landfill disposal)	792.77 tons	Envirow aste of Ohio, Inc.	11/27/2012 through 1/9/2013
CCA contaminated soil and concrete and CCA contaminated debris (STP only)	97.61 tons	Model city	10/8/2012
Hazardous FO35 liquid waste from sumps in NTP	(4) 55-gallon drums	Pro-Teck	5/2/2013
Cans of oil based paints found in on- site	(1) 55-gallon drum	Pro-Teck	5/2/2013

Notes:

STP- Southern Pressure Treatment Plant NTP- Northern Pressure Treatment Plan

2.2.4 ON-SITE AND OFF-SITE TREATMENT SYSTEMS

No long-term treatment systems were required to be installed as part of the Site remedy.

2.2.5 DESCRIPTION OF RESIDUAL CONTAMINATION

- The excavation for metal contaminated soils was conducted to the Site-specific levels for arsenic, chromium and copper as specified in the SMP.
- A soil cap that ranges in thickness from 4 to 10 feet covers the entire Site. The
 installed soil cap forms a capping system to cover the impacted soils and also
 elevated the Site grades to above the flooding elevation. The cap consists of two
 (2) feet of clean soil that meets the restricted residential SCOs over a
 demarcation layer. The balance of the soils underneath the demarcation layer
 consists of soils that meet the restricted residential with few exceedances in the
 PAHs allowed and approved by the NYSDEC.

Figures 1.7, 1.7B and 1.7C from the SMP, presented in **Appendix A**, represent the contaminated soils that exceed the Track 1 (unrestricted) SCOs remaining at the Site after completion of Remedial Action.

2.2.6 MANAGEMENT OF RESIDUAL CONTAMINATION THROUGH ENGINEERING AND INSTITUTIONAL CONTROLS IN THE ENVIRONMENTAL EASEMENT

The SMP lists the ECs and ICs required by the NYSDEC to manage the residual contamination present at this Site to protect public health and the environment in the future and keep the Site safe for reuse. The primary Engineering Controls at the Site are: (1) a composite cover system composed, from top to bottom, of a minimum of 2 feet of clean soil, a demarcation layer and two (2) to six (6) feet of soils that meet the restricted residential SCO with few PAH exceedances allowed and approved by the NYSDEC since the material is under the demarcation layer; and (3) monitoring of groundwater. The Applicant and Applicant's successors or assigns must manage the controls and monitoring in full compliance with the terms of the remedial program.

3.0 REMEDY PERFORMANCE, EFFECTIVENESS, PROTECTIVENESS

The goal of the SMP is to manage the residual contamination at the Site through implementation of ICs and ECs. At present, SESI is conducting monitoring/inspection of the ICs and ECs on the Site in accordance with the SMP dated December 2014. The overall Site remedy was designed to ensure that residual soil contamination that remains on Site in fill materials below the two-foot clean soil cap does not significantly exceed the more stringent of the applicable NYSDEC restricted residential SCO.

Groundwater Monitoring

In order to monitor the effectiveness of the contaminant removal and the Site natural attenuation, an on-Site monitoring well network (PR-MW-2 and PR-MW-4) was sampled on March 21, 2024. The monitoring well locations are depicted in Figure 1.3 of the SMP, presented in **Appendix A**.

Prior to sampling the wells were purged and sampled in accordance with USEPA low flow sampling procedures. The purge water was piped to a "flow cell," where groundwater parameters including pH, redox potential, specific conductance, dissolved oxygen, salinity and turbidity were measured. **Attachment C** includes the well purge data. **Table 3.1 in Appendix D** provides a tabular summary of the groundwater monitoring results of the March 21, 2023 sampling event. The laboratory analytical data packages are provided in **Appendix D**.

Table 3.2 and the graph present a historical summary of arsenic exceedances in the groundwater. Arsenic detected in monitoring wells PR-MW-4 has decreased from a concentration of 27.7 ug/L (March 2023) to a concentration of 9.7 ug/L (March 2024) below the NYSDEC TOGS effluent limitation of 50 ug/L. Arsenic detected in monitoring well PR-MW-2 have decreased from a concentration of 145.7 ug/L (March 2023) to a concentration of 124.4 ug/L (March 2024). Based upon comparison with historical sampling events, the concentrations of arsenic in PR-MW-4 have been below the TOGS levels for the past three annual sampling events and have reached asymptotic levels in PR-MW-2.

Table 3.2: Historic Data for Arsenic in Groundwater

Sample ID	Effluent Limitation Class GA		1/26/2016	10/14/2016	11/21/2017	3/15/2019	3/27/2020	3/2/2021	3/31/2022	3/9/2023	3/21/2024
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PR-MW2	50	27	130	176	302	200	NA	NA	118	145.7	124.1
PR-MW4	50	8.9	80	23.9	32.5	31.4	85.59	63.73	36.08	27.7	9.7

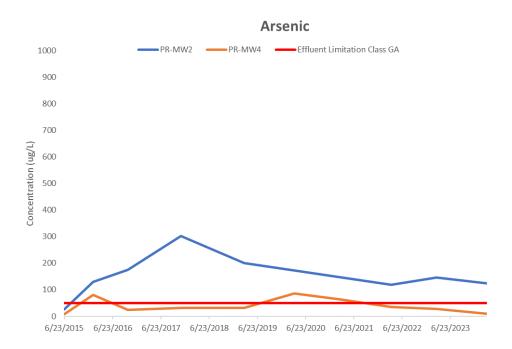
Notes:

Ug/L = Micrograms per Liter

NA = Not Analyzed

Highlighted = Concentration Exceeds the TOGS GA Effluent Limitations

Historical Data for Arsenic in Groundwater



4.0 IC/EC PLAN COMPLIANCE

4.1 IC/EC REQUIREMENTS AND COMPLIANCE

Institutional Controls

The ICs in-place at the Site consist of (1) implementing, maintaining, and monitoring EC systems; (2) preventing future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limiting the use and development of the Site to restricted residential, which will also permit commercial and industrial uses.

The land-use restriction remains in place and is effective to prohibit the use of the Site for anything other than restricted residential. It also prohibits vegetable gardens and farming on the Site.

The Monitoring Plan is intended as a means to observe the long-term effectiveness of the ECs at the Site. If at any time, the results of the monitoring plan indicate that the Site remedy is no longer effective or protective of human health, then ICs will be adjusted and/or added based on the monitoring data.

The SMP is intended to provide guidance for any and all intrusive activities on the Site, including building construction/expansion, utility line repair/construction and any new construction activities that will cause a disturbance of the soil beneath the demarcation layer. The Site Management Plan remains in place and is effective.

Engineering Controls

The ECs in place at the Site consist of (1) a Site cover system and (2) a monitoring well network.

The Site cover system consists of a minimum 24 inches of clean soil, a demarcation layer and two (2) to six (6) feet of soils that meet the restricted residential SCO with few PAH exceedances allowed and approved by the NYSDEC since the material is under the demarcation layer. The objective of this is to prevent the public from being exposed to the residual contamination present beneath the soil cover. The Site cover system remains in place and is effective.

An on-Site monitoring well network is in-place. The monitoring wells are sampled annually to determine the effectiveness of the natural attenuation/degradation. The monitoring wells are all currently in place and effective for their purpose.

4.2 IC/EC CERTIFICATION

The NYSDEC Institutional and Engineering Controls Certification Form has been completed and is included in **Appendix E**.

5.0 MONITORING PLAN COMPLIANCE

Table 5.1: Monitoring Program Frequency

Monitoring Program	Frequency*	Matrix	Analysis	
Cover System	Annually	Soil	Visual	
Groundwater	Annually for the current Reporting Period	Water	Metals	

Monitoring Completed During Current Reporting Period

Inspection of the composite cover system was conducted on March 21, 2024. Monitoring wells PR-MW-2 and PR-MW-4 were sampled on March 21, 2024.

Comparison with Remedial Objectives

The remedial objectives for the composite cover system are being met. The cover system continues to be protective of human health and the environment for the intended restricted residential use of the property.

The composite cover system has changed due to the addition of the constructed building. The building construction for Phase 1 and Phase 2 of the development was completed in July 2023. Completion of Phase 3 is anticipated to be completed during the next reporting period. The SMP will be updated with the new cover system elements and as-built drawings once the building construction has been completed. The cover system has been and will continue to be effective in preventing public exposure to the residual contamination left on Site beneath the cover system.

. The composite cover system inspection form is included with the Site Inspection Forms denoted as **Appendix B**.

During the annual monitoring well sampling event conducted on March 21, 2024 arsenic detected in monitoring wells PR-MW-4 has decreased from a concentration of 27.7 ug/L (March 2023) to a concentration of 9.7 ug/L (March 2024) below the NYSDEC TOGS effluent limitation of 50 ug/L. Arsenic detected in monitoring well PR-MW-2 have

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decreased from a concentration of 145.7 ug/L (March 2023) to a concentration of 124.4 ug/L (March 2024). Based upon comparison with historical sampling events, the concentrations of arsenic have been below the TOGS levels in PR-MW-4 for the past three annual sampling events and have reached asymptotic levels in PR-MW-2.

Monitoring Deficiencies

All aspects of the monitoring plan were in accordance with NYSDEC applicable regulations.

6.0 OPERATION AND MAINTENANCE PLAN COMPLIANCE

The Site remedy does not rely on any mechanical systems, such as sub-slab depressurization systems or air sparge/soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not applicable.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Compliance with the SMP

All aspects of the SMP, including IC/EC and monitoring, have met the requirements. The O&M is not required at this time for the site.

There are no new exposure pathways resulting in an unacceptable risk.

Performance and Effectiveness of the Remedy

The composite cover system has changed due to the addition of the constructed building. The building construction for Phase 1 and Phase 2 of the development was completed in July 2023. Completion of Phase 3 is anticipated to be completed during the next reporting period. The SMP will be updated with the new cover system elements and as-built drawings once the building construction has been completed. The cover system has been and will continue to be effective in preventing public exposure to the residual contamination left on Site beneath the cover system.

The sampling of the monitoring well network is determining the effectiveness of the Site's ability to naturally degrade the COCs in groundwater.

The proposed periodic monitoring plan for the cover system and groundwater is effective and protective of the previously approved overall Site remedy.

Future PRR Submittals

We do not recommend any changes to the frequency of the PRR submittal at this time because ICs and ECs remain in-place and are effective. The next PRR will be submitted in May 2025.

Conclusions and Recommendations

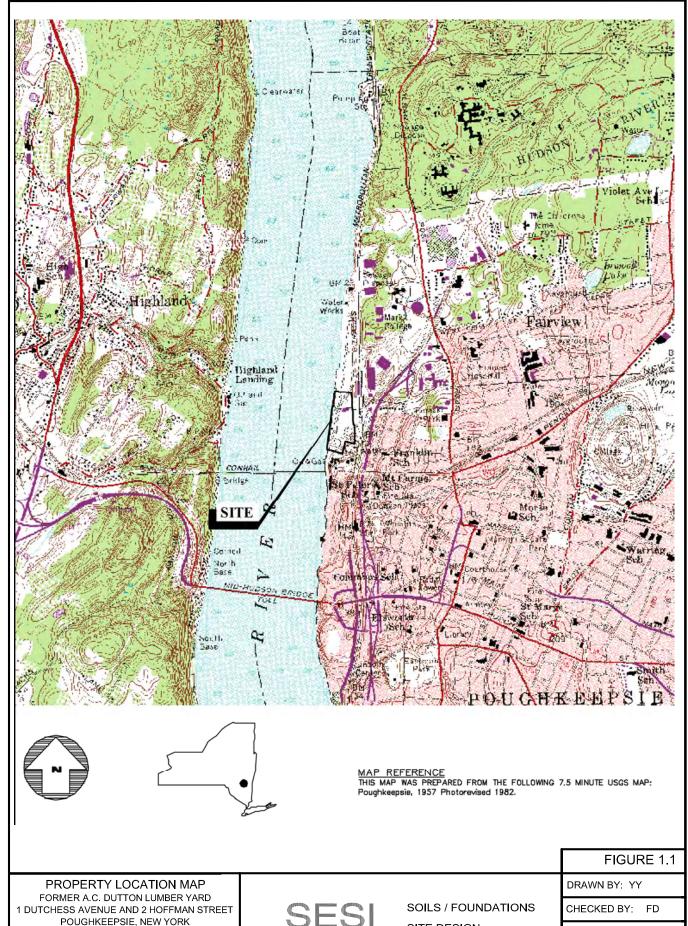
All aspects of the remedial program appear to be meeting the Site remedy design goal.

We recommend the following for the next reporting period:

 Groundwater Monitoring: Based upon comparison with historical sampling events, the concentrations of arsenic are trending down and are below the TOGS levels in PR-MW-4 and have reached asymptotic levels in PR-MW-2. Therefore, additional monitoring is no longer warranted. SESI recommends discontinuance of groundwater monitoring.

• Cover system: continue the annual visual inspection of the cover system.

Appendix A: SMP Figures



SITE PLAN

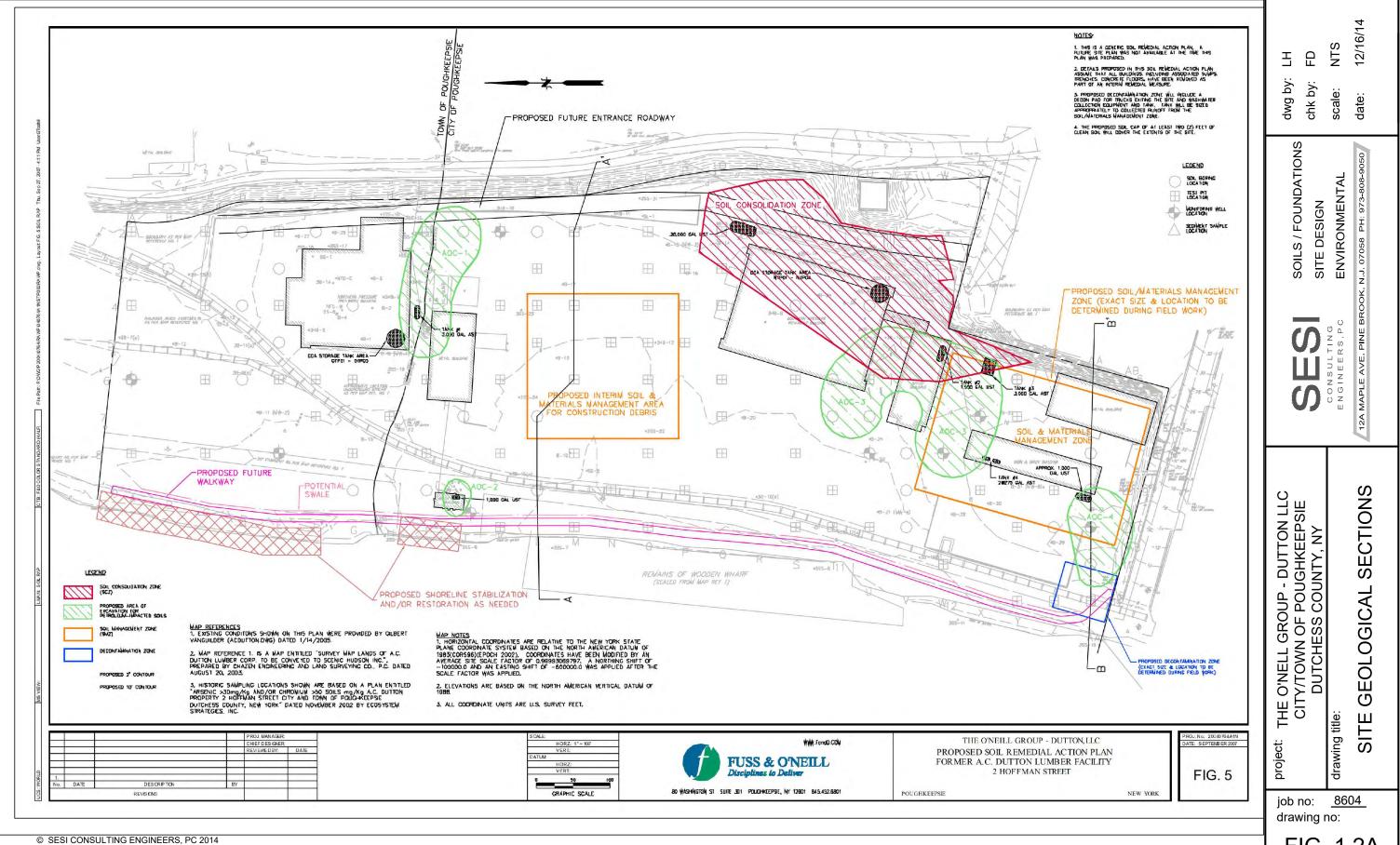
CONSULTING ENGINEERS,PC SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL

12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

SCALE: N.T.S.

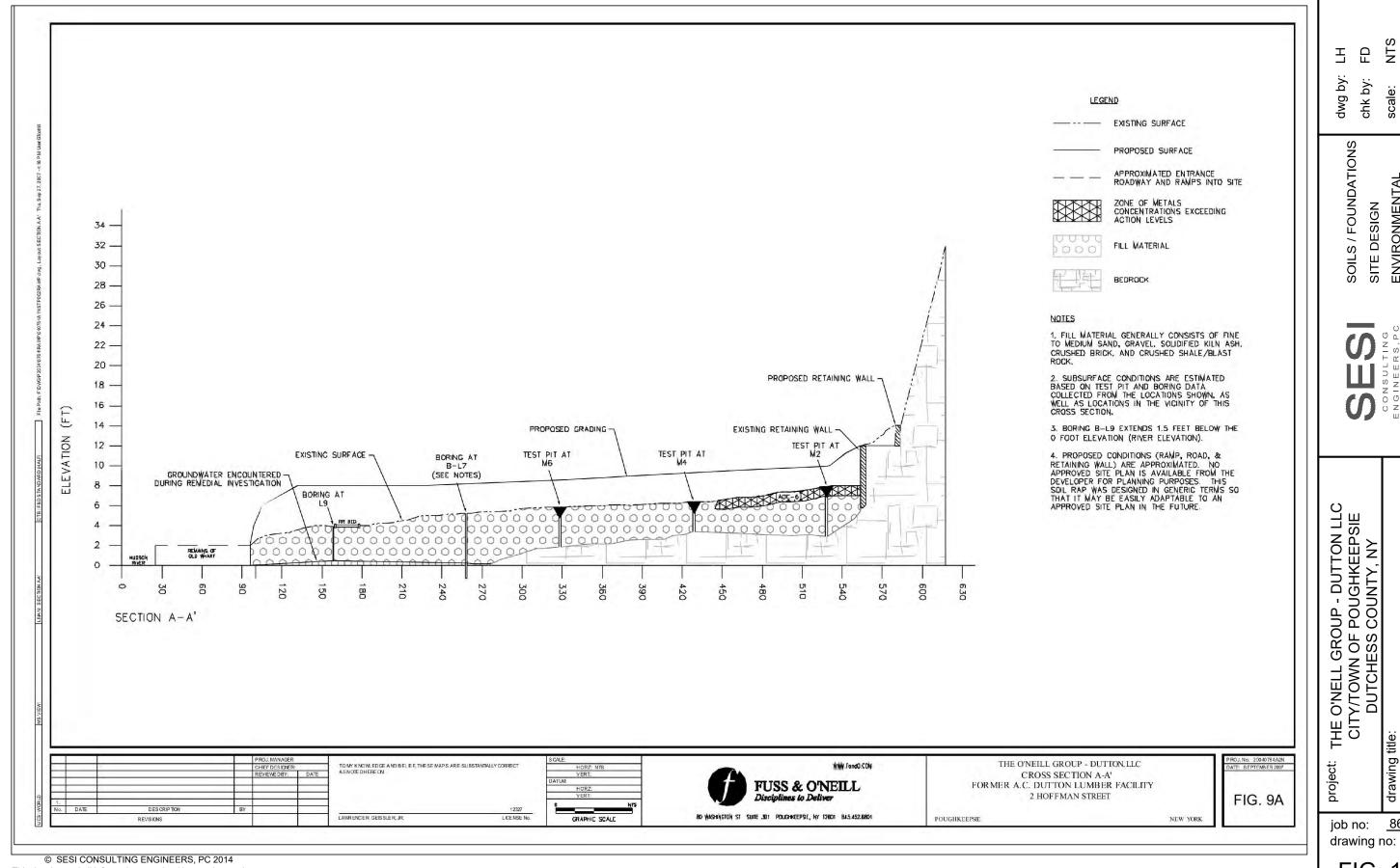
DATE: 12/17/14

JOB NO.: 8604



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FIG. 1.2A



12/16/ NTS

date:

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ENVIRONMENTAL

SITE DESIGN N.J. 07058

SECTIONS

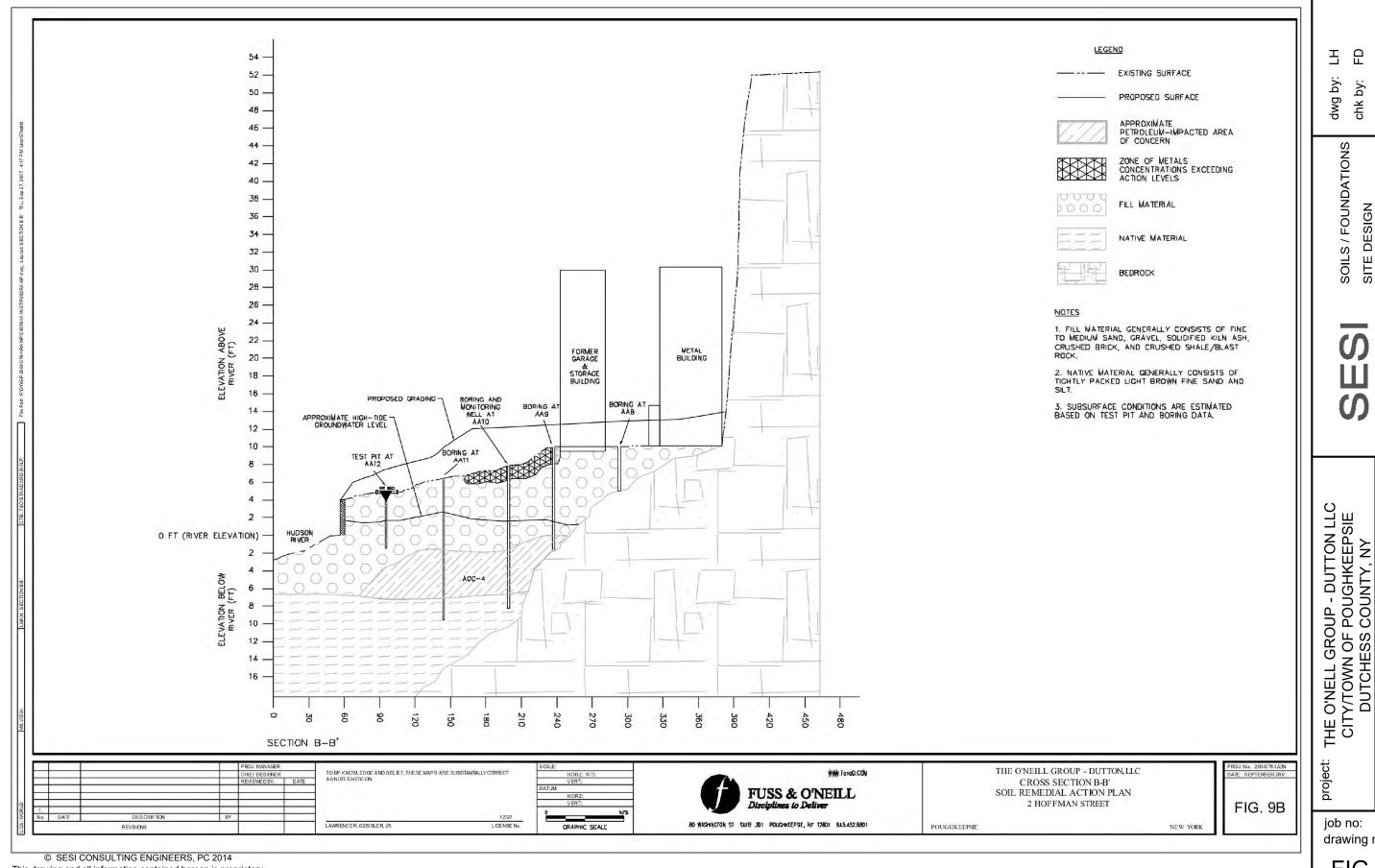
12A MAPLE AVE.

GEOLOGICAL SITE

awing φ 8604 job no:

FIG. 1.2B

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12/16/14

ENVIRONMENTAL SITE DESIGN

12A MAPLE AVE.

PINE BROOK,

SECTIONS

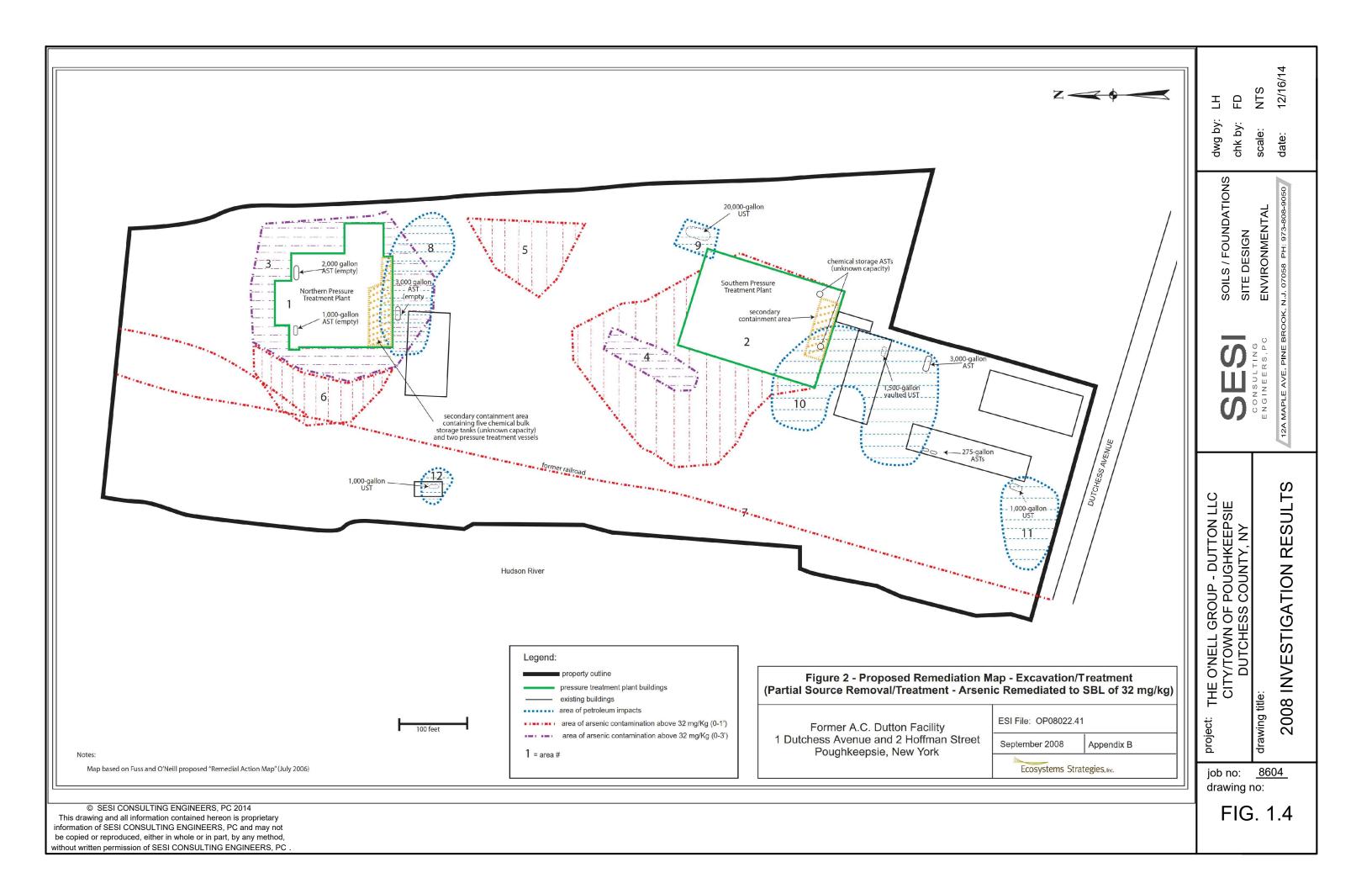
GEOLOGICAL SITE

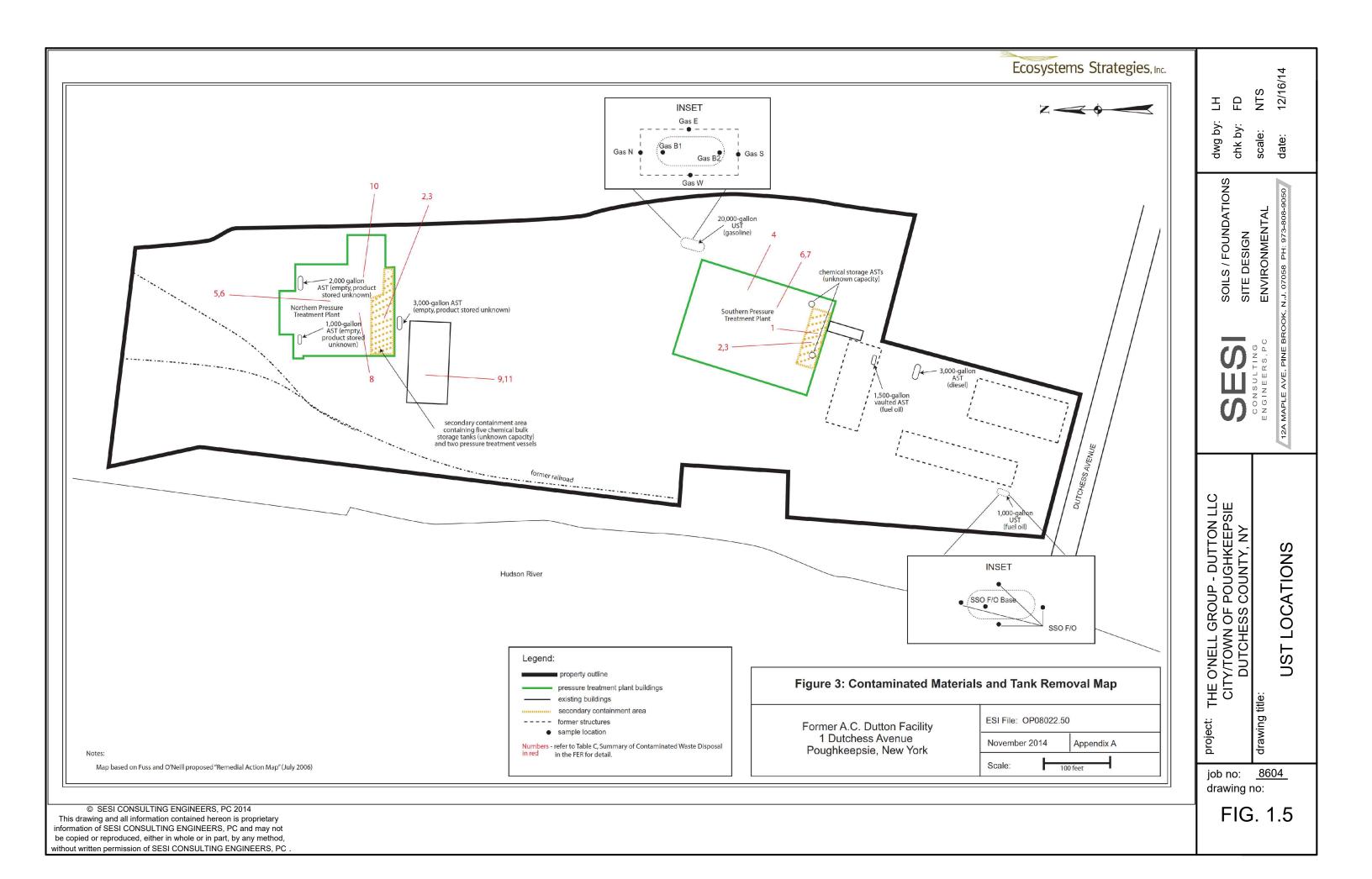
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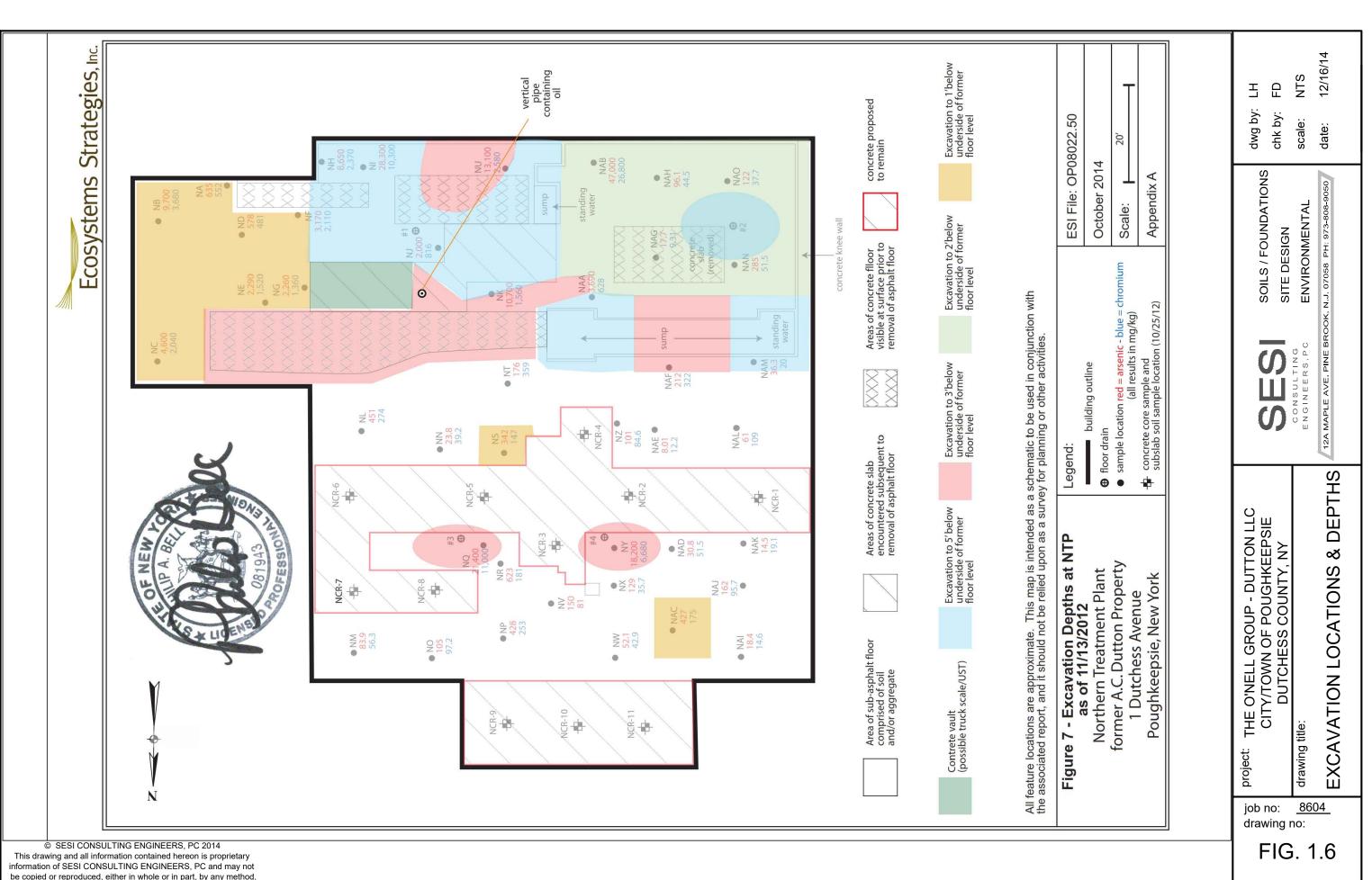
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FIG. 1.2C

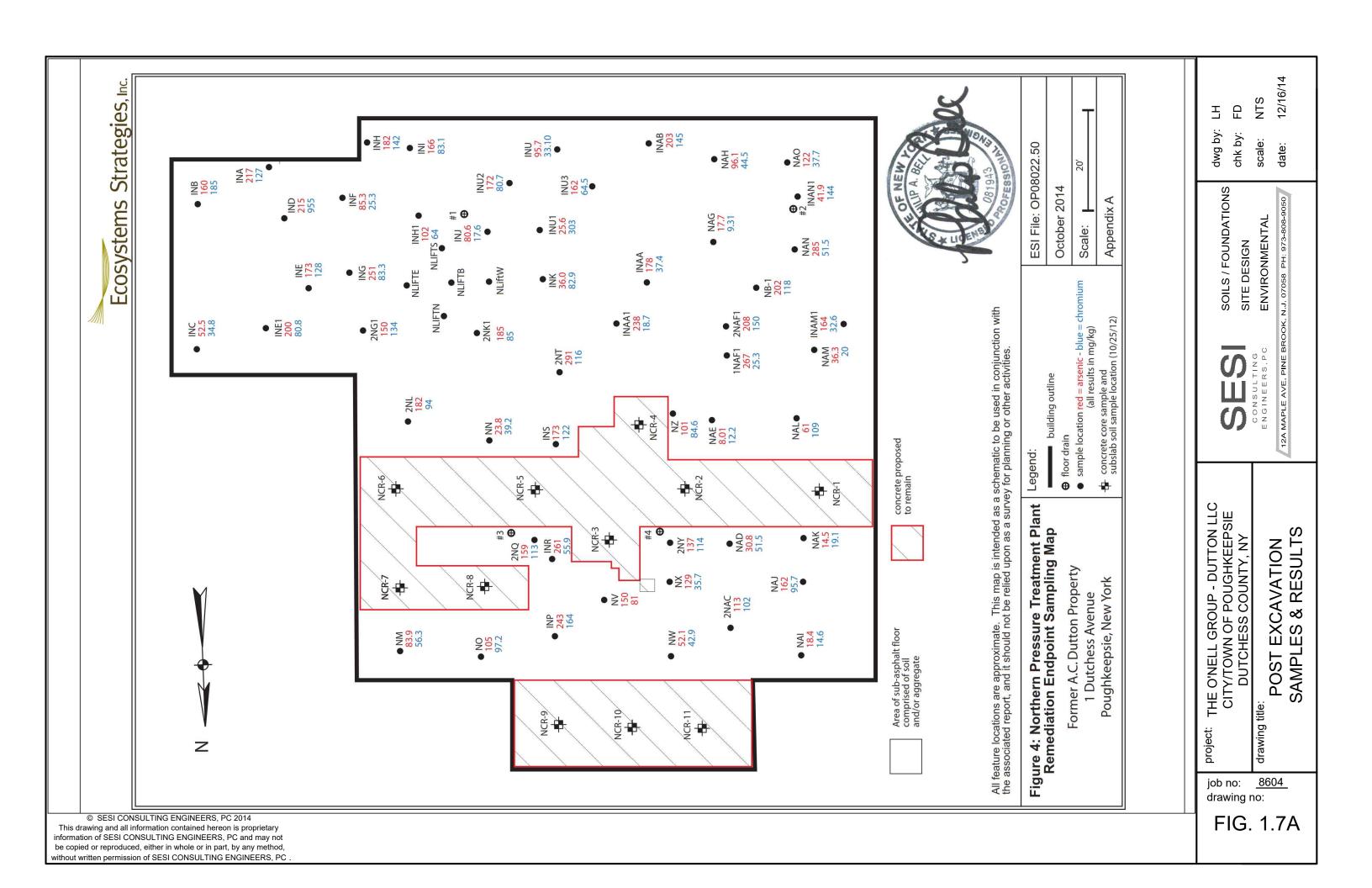
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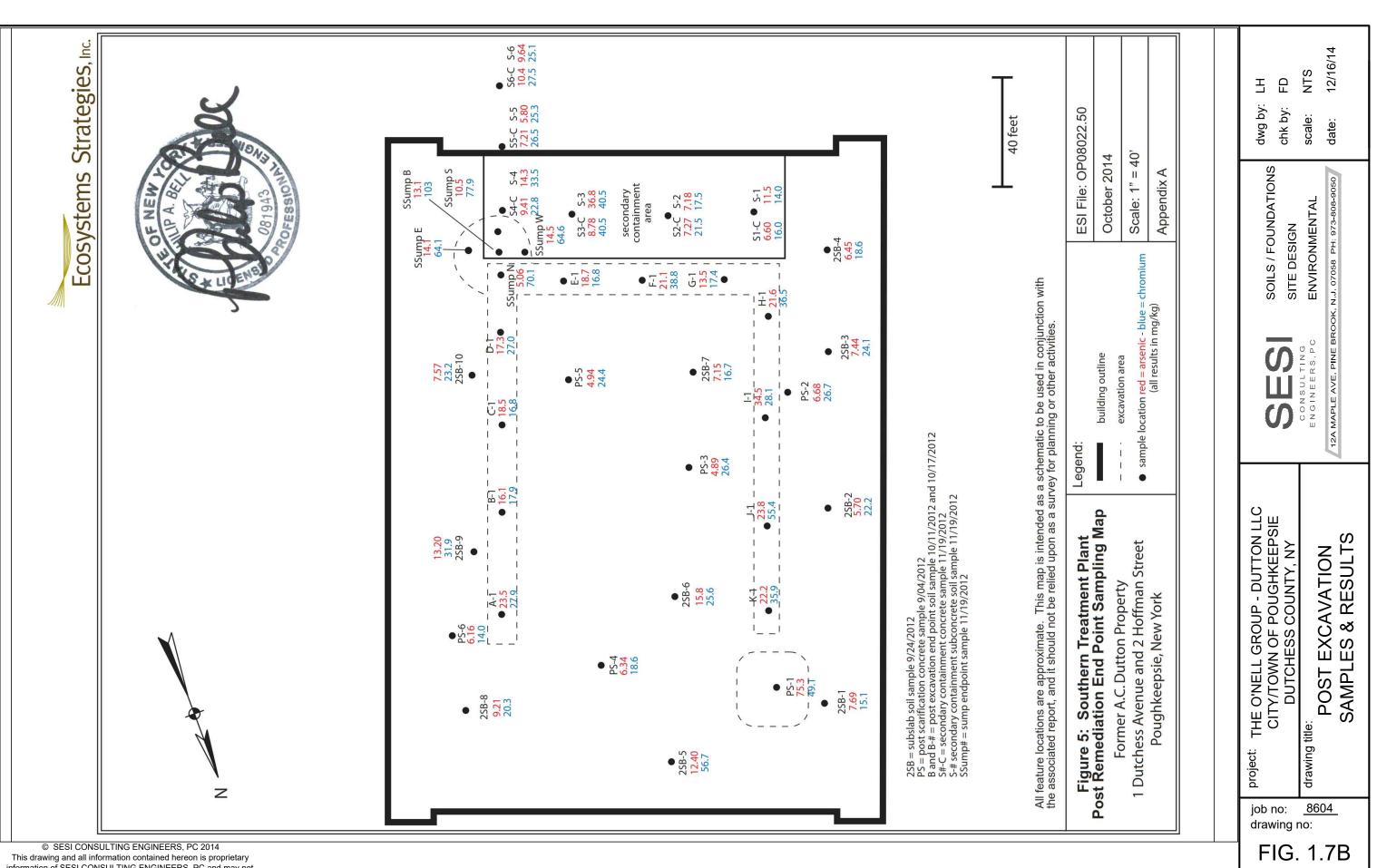




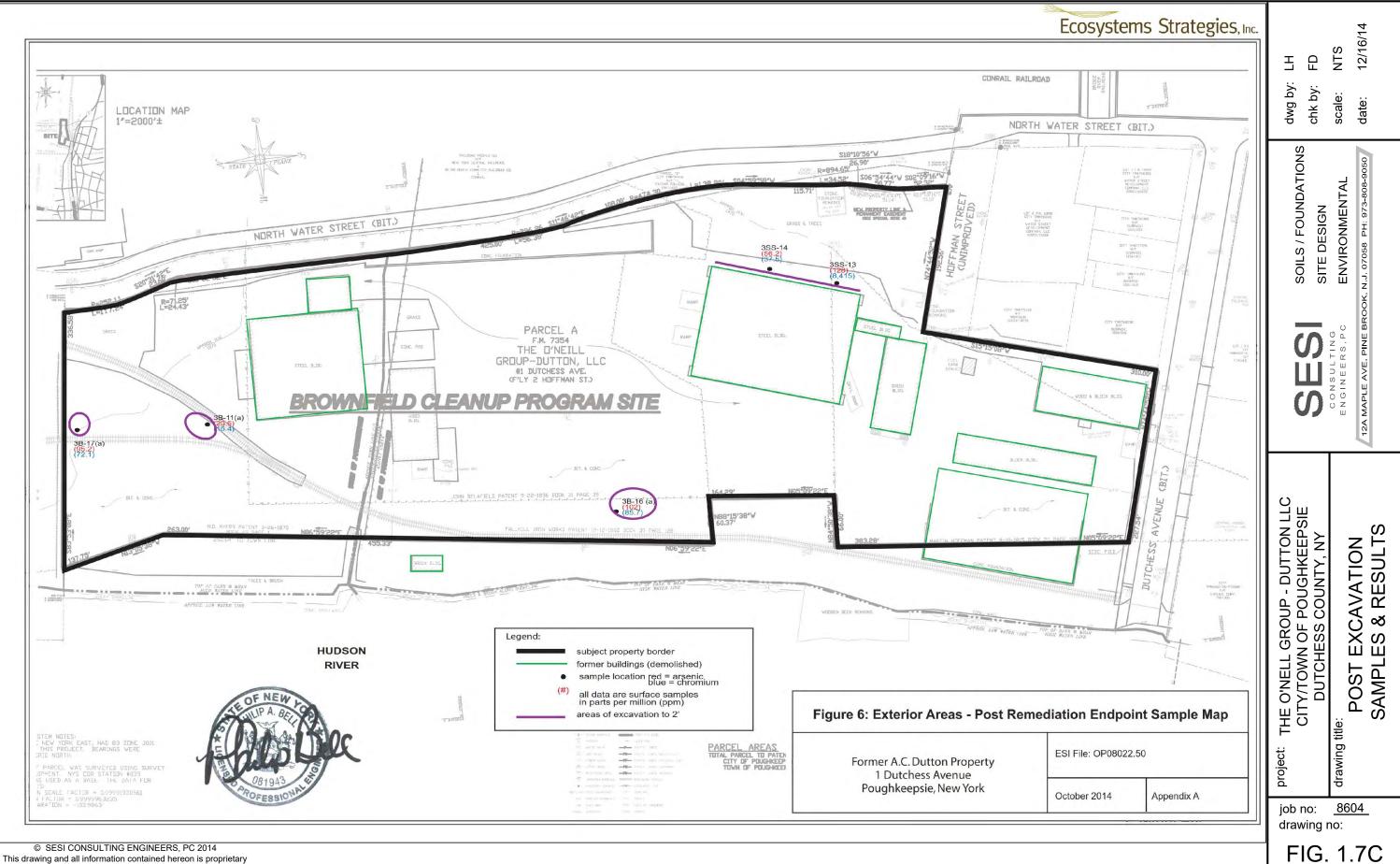


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Site Inspection Forms and Photo Log

INSPECTION CHECKLIST

FORMER AC DUTTON POUGHKEEPSIE, NEW YORK NYSDEC BCP No. _C31081_____

SESI CONSULTING ENGINEERS Inspection Date: 3.21.2024

COMPOS	SITE CO	VER S	YSTEM

-	Is the integrity of the cover system in tact?	Yes _X_ No
-	Do the maintenance records indicate any invasive subsurface work has been completed after the last inspection?	Yes NoX_
-	Has any soil been removed or imported from the Site since the last inspection?	Yes No _X
-	If soil has been disposed off-Site or imported, has this been completed in accordance with the NYSDEC approved Soil Management Plan for the Site?	Yes No _X
-	If subsurface invasive work was undertaken, has the demarcation geotextile and the "clean soil cover" been restored?	Yes No
-	Did a Professional Engineer or a qualified environmental professional (approved by the NYSDEC) oversee the above work?	Yes <u>X</u> No
-	Was NYSDEC notified of disturbances to the "Clean Soil Cover"?	Yes No
-	List of all reported disturbances since last inspection:	
	NONE	
MONI	TORING WELL NETWORK	
-	Are all the on-Site monitoring wells accessible for annual compliance sampling (i.e., they are not covered by soil, dumpsters, etc.)?	Yes _X_ No
-	Is the integrity of the flush-mount/stickup manhole covers And associated concrete pads intact?	Yes <u>X</u> No
-	Are the monitoring wells locked and the locks functioning?	Yes <u>X</u> No





Photo 1: Photograph of unpaved area and PR-MW-2 in northern portion of site, facing south



Photo 2: View of unpaved area in northern portion of site, facing east





Photo 3: View of northern property boundary, facing north



Photo 4: Example of areas in northern half of Site where landscaping around buildings is not yet complete





Photo 5: Photo showing paved areas of cap in between buildings, facing east



Photo 6: Photo showing completed areas of landscaping around Site buildings





Photo 7: Photograph showing paved parking areas along western Site boundary, facing northwest



Photo 8: Photograph showing paved area in southern portion of site, where PR-MW-4 is located





Photo 9: Photo showing example of one of several concrete sidewalks around buildings on the Site, facing east



Well Purging and Sampling Logs

LOW-FLOW GROUNDWATER SAMPLING LOG

Location	1 Dutchess Ave, Pou	ahkooneio NV		Job Number:		WELL I.D. : PI	D_M\W_2		
		grikeepsie, N i		Date:		WELL I.D FI	X-IVI VV-2		
Personnel:	TAJ			PID:	3/21/2024 0		CONSU	LTING	
Stickup? Y Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well PVC	Depth to Product Rim/PVC	Depth to Water (PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic o Bladder
2.6'	-	20.5	-	11.9	8.6	16.2	16'	-	Peri
Turbidity at co	ollection (NTU):		(Less than	1 5 NTU is desirable)	Dup	licate Collecte	d? Y	Filtered Sa	mple N
Stabilizatio	n Parameters	+/- 0.5 deg C.	+/- 10 umhos/cm or within 3% if >300umho 1 ppm +/- 10 mV No Limi		No Limit	<.3 feet drawdown desirable	No Limit		
Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	рН	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
FR= 200 mL/min	9:45	8.83	7.31	0.753	0	59	173	12.5	N
Dropped to 150 mL/min to prevent drawdown	9:50	8.86	7.24	0.752	0	56	167	13.6	N
	9:55	8.81	7.29	0.755	0	51	139	13.6	N
	10:00	8.93	7.28	0.755	0	27	167	13.6	N
	10:05	9.36	7.3	0.761	0	-37	165	13.6	N
	10:10	9.6	7.31	0.764	0	-61	154	13.6	N
	10:15	9.82	7.39	0.774	0	-121	122	13.6	N
	10:20	9.96	7.42	0.774	0	-132	80.4	13.6	N
	10:25 10:30	9.9 9.91	7.43 7.45	0.774 0.774	0	-134 -141	76.6 62.9	13.6 13.6	N N
			W	Ell Condition Summa	rv				
Cover: N		Bolts: N		Concrete Pad OK: N	<u> </u>	Gripper: N			
	I		Sam	ple Collection Inform	ation		1		
stabilization. Notes/ Calculations:	(slow drip) & turbidity <10 if possible. If t			Filtered Sample Tur otify PM of high turbidity and collection		o lab submittal.	OTHER:	Minimum 20 minute pu	irge to establish
/olume? Linear Ft of well casi	ng; 1"=0.041 gal. 2"= 0.163 ga	ıl. 4"=0.653 gal.		ABSORBENT SOCK					
Sock Length (ft) =		Capacity	(Qt.) =	ADOUNDERT SOCK	Present:	Y / N	Product Measu	red (Inches) :	
	llation Date:			Sock Cha	nged :	Y/N			
Sock Dept	th (Depth to sock mid p	oint):				•]		

LOW-FLOW GROUNDWATER SAMPLING LOG

l ocation:	1 Dutchess Ave, Pou	ahkeensie NV	LOW-I LOW	Job Number:	9039	WELL I.D. : PF	R-MW-4		
Personnel:	TAJ	gimoopoie, it i	ı	Date:	3/21/2024	TTELE I.D FI			
reisoillei.	170		1	Dute.	3/21/2024		SE	S	
				PID:	0		CONSU		
Stickup? N	Distance From Rim to	Total Depth of	Depth to	Depth to Water	Standing	Middle of	Depth to	TOV @ Well	Pump
Distance ground to	PVC	Well PVC	Product	(PVC)	Water Column	Saturated	Sample Tube	Head (ppmv)	Peristaltic o
Stickup Rim/PVC	110	11011110	Rim/PVC	(1 40)	(feet)	Zone (feet)	(feet)	rieda (ppiliv)	Bladder
-	0.35	21.1	-	9.75	11.35	15.425	16	-	Peri
Turbidity at co	ollection (NTU):		(Less than	5 NTU is desirable)	Dup	licate Collected	ed? N Filtered Sample		mple N
				+/- 10 umhos/cm or				<.3 feet	
Stabilization	n Parameters	+/- 0.5 deg C.	+/- 0.1 Unit	within 3% if	1 ppm	+/- 10 mV	No Limit	drawdown	No Limit
		3		>300umho				desirable	
		•	I	0	Disaskad	ODD	· 	I	I
Volume Purged	Time (actual Time)	TEMP.	рH	Specific Conductivity	Dissolved Oxygen	ORP mV	Turbidity	DTW	Odors
(gallons)	5 minute Intervals	(Deg. C)	рп	uS/cm	(mg/L)	millivolts	NTUs	(feet)	Y/N
FR= 200 mL/min	8:45	8.44	7.09	0.698	2.55	43	45.3	9.75	N
	8:50	8.47	8.07	0.67	2.48	47	17	9.75	N
	8:55	8.39	8.34	0.668	2.43	80	9.7	9.75	N
	9:00	8.61	8.36	0.67	2.44	84	7.1	9.75	N
	9:05	8.65	8.38	0.672	2.43	103	9.2	9.75	N
	9:10	8.61	8.39	0.671	2.41	106	9	9.75	N
	9:15	8.63	8.39	0.672	2.42	111	8.5	9.75	N
			W	ell Condition Summa	ry	1		1	
Cover: Y		Bolts: N		Concrete Pad OK: Y		Gripper: Y			
			Sam	ple Collection Inform	ation				
Sample Time:	9:20	Appearance: Cle		Filtered Sample Tur			OTHER:		
stabilization. Notes/ Calculations:	slow drip) & turbidity <10 if possible. If t ng; 1"=0.041 gal. 2"= 0.163 ga		nd untiltered samples. N	otify ⊬M of high turbidity and collecti	on of filtered samples prior to	o iab submittal.		Minimum 20 minute pu	rge to establish
				ABSORBENT SOCK					
Sock Length (ft) =		Capacity	(Qt.) =		Present:	Y/N	Product Measu	red (Inches) :	
Sock Insta	lation Date:			Sock Cha	nged :	Y/N			•
	l. (B (l. (l	aint\.		•		•	1		
Sock Dept	h (Depth to sock mid p	omi):							

Appendix D:

Laboratory Analytical Reports and Summary Table

Table 3.1 - Summary of Groundwater Analytical Data March 9, 2024

Formeer AC Dutton Lumber Yard - NYSDEC 314081

			SAMPLE ID:			PR-MW-4	1		PR-MW	-2	D	UP20	240321 (PI	R-MW-2)
			LAB ID:		L	_2415630-0)1		L2415630	-02		I	L2415630-0)3
			COLLECTION DATE:			3/21/2024			3/21/202	24	3/21/2024			
			SAMPLE DEPTH:											
			SAMPLE MATRIX:			WATER			WATER	₹			WATER	
		NY-AWQS	NY-TOGS-GA											
ANALYTE	CAS	(ug/l)	(ug/l)	Conc	Q	RL	MDL	Conc	Q RL	MDL	Conc	Q	RL	MDL
TOTAL METALS				-										
Aluminum, Total	7429-90-5		2000	79.3		10	3.27	703	10	3.27	610		10	3.27
Antimony, Total	7440-36-0	3	6	ND		4	0.42	ND	4	0.42	ND		4	0.42
Arsenic, Total	7440-38-2	25	50	9.7		0.5	0.16	124.1	0.5	0.16	126.3		0.5	0.16
Barium, Total	7440-39-3	1000	2000	23.1		0.5	0.17	87.95	0.5	0.17	85.95		0.5	0.17
Beryllium, Total	7440-41-7	3	3	ND		0.5	0.1	ND	0.5	0.1	ND		0.5	0.1
Cadmium, Total	7440-43-9	5	10	ND		0.2	0.05	ND	0.2	0.05	ND		0.2	0.05
Calcium, Total	7440-70-2			79600		1000	394	73700	1000	394	67200		1000	394
Chromium, Total	7440-47-3	50	100	1.48		1	0.17	2.43	1	0.17	2.16		1	0.17
Cobalt, Total	7440-48-4			ND		0.5	0.16	0.92	0.5	0.16	0.89		0.5	0.16
Copper, Total	7440-50-8	200	1000	1.09		1	0.38	15.18	1	0.38	3.11		1	0.38
Iron, Total	7439-89-6	300	600	132		50	19.1	8620	50	19.1	8470		50	19.1
Lead, Total	7439-92-1	25	50	ND		1	0.34	3.89	1	0.34	3.45		1	0.34
Magnesium, Total	7439-95-4	35000	35000	15800		70	24.2	12000	70	24.2	12000		70	24.2
Manganese, Total	7439-96-5	300	600	11.88		1	0.44	1991	1	0.44	1984		1	0.44
Mercury, Total	7439-97-6	0.7	1.4	ND		0.2	0.09	ND	0.2	0.09	ND		0.2	0.09
Nickel, Total	7440-02-0	100	200	ND		2	0.55	2.58	2	0.55	2.36		2	0.55
Potassium, Total	7440-09-7			4880		100	30.9	6250	100	30.9	6230		100	30.9
Selenium, Total	7782-49-2	10	20	ND		5	1.73	ND	5	1.73	ND		5	1.73
Silver, Total	7440-22-4	50	100	ND		0.4	0.16	ND	0.4	0.16	ND		0.4	0.16
Sodium, Total	7440-23-5	20000		54500		100	29.3	96200	100	29.3	95400		100	29.3
Thallium, Total	7440-28-0	0.5	0.5	ND		1	0.14	ND	1	0.14	ND		1	0.14
Vanadium, Total	7440-62-2			ND		5	1.57	ND	5	1.57	ND		5	1.57
Zinc, Total	7440-66-6	2000	5000	ND		10	3.41	16.54	10	3.41	8.36	J	10	3.41



ANALYTICAL REPORT

Lab Number: L2415630

Client: Soils Engineering Services, Inc.

959 Route 46E

Parsippany, NJ 07054

ATTN: Steven Gustems
Phone: (973) 808-9050

Project Name: ONE DUTCHESS

Project Number: 9039 Report Date: 03/28/24

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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



Project Name: ONE DUTCHESS

Project Number: 9039 Lab Number: L2415630

Report Date: 03/28/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2415630-01	PR-MW-4	WATER	POUGHKEEPSIE, NY	03/21/24 09:20	03/21/24
L2415630-02	PR-MW-2	WATER	POUGHKEEPSIE, NY	03/21/24 10:35	03/21/24
L2415630-03	DUP20240321	WATER	POUGHKEEPSIE, NY	03/21/24 00:00	03/21/24



Project Name:ONE DUTCHESSLab Number:L2415630Project Number:9039Report Date:03/28/24

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.	



Serial_No:03282410:46

Project Name: ONE DUTCHESS Lab Number: L2415630

Project Number: 9039 Report Date: 03/28/24

Case Narrative (continued)

Report Submission

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

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

Authorized Signature:

Title: Technical Director/Representative Date: 03/28/24

Melissa Sturgis Melissa Sturgis

ANALYTICAL

METALS



03/21/24 09:20

Date Collected:

Project Name: Lab Number: ONE DUTCHESS L2415630

Project Number: Report Date: 9039 03/28/24

SAMPLE RESULTS

Lab ID: L2415630-01

PR-MW-4 Client ID: Date Received:

03/21/24 Sample Location: POUGHKEEPSIE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Aluminum, Total	0.0793		mg/l	0.0100	0.00327	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Arsenic, Total	0.00970		mg/l	0.00050	0.00016	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Barium, Total	0.02310		mg/l	0.00050	0.00017	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Calcium, Total	79.6		mg/l	1.00	0.394	10	03/26/24 13:10	03/27/24 14:15	EPA 3005A	1,6020B	EJF
Chromium, Total	0.00148		mg/l	0.00100	0.00017	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Copper, Total	0.00109		mg/l	0.00100	0.00038	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Iron, Total	0.132		mg/l	0.0500	0.0191	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Magnesium, Total	15.8		mg/l	0.0700	0.0242	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Manganese, Total	0.01188		mg/l	0.00100	0.00044	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/26/24 12:23	03/27/24 13:05	EPA 7470A	1,7470A	MJR
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Potassium, Total	4.88		mg/l	0.100	0.0309	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Sodium, Total	54.5		mg/l	0.100	0.0293	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Thallium, Total	ND		mg/l	0.00100	0.00014	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF
Zinc, Total	ND		mg/l	0.01000	0.00341	1	03/26/24 13:10	03/27/24 13:32	EPA 3005A	1,6020B	EJF



03/21/24 10:35

Date Collected:

Project Name: ONE DUTCHESS **Lab Number:** L2415630

Project Number: 9039 Report Date: 03/28/24

SAMPLE RESULTS

Lab ID: L2415630-02

Client ID: PR-MW-2 Date Received: 03/21/24 Sample Location: POUGHKEEPSIE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	sfield Lab										
Aluminum, Total	0.703		mg/l	0.0100	0.00327	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Arsenic, Total	0.1241		mg/l	0.00050	0.00016	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Barium, Total	0.08795		mg/l	0.00050	0.00017	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Calcium, Total	73.7		mg/l	1.00	0.394	10	03/26/24 13:10	03/27/24 14:20	EPA 3005A	1,6020B	EJF
Chromium, Total	0.00243		mg/l	0.00100	0.00017	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.00092		mg/l	0.00050	0.00016	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Copper, Total	0.01518		mg/l	0.00100	0.00038	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Iron, Total	8.62		mg/l	0.0500	0.0191	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Lead, Total	0.00389		mg/l	0.00100	0.00034	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Magnesium, Total	12.0		mg/l	0.0700	0.0242	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Manganese, Total	1.991		mg/l	0.00100	0.00044	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/26/24 12:23	03/28/24 09:23	EPA 7470A	1,7470A	SMV
Nickel, Total	0.00258		mg/l	0.00200	0.00055	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Potassium, Total	6.25		mg/l	0.100	0.0309	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Sodium, Total	96.2		mg/l	0.100	0.0293	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Thallium, Total	ND		mg/l	0.00100	0.00014	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF
Zinc, Total	0.01654		mg/l	0.01000	0.00341	1	03/26/24 13:10	03/27/24 13:36	EPA 3005A	1,6020B	EJF



03/21/24 00:00

Date Collected:

Project Name: ONE DUTCHESS **Lab Number:** L2415630

Project Number: 9039 Report Date: 03/28/24

SAMPLE RESULTS

Lab ID: L2415630-03

Client ID: DUP20240321 Date Received: 03/21/24 Sample Location: POUGHKEEPSIE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Aluminum, Total	0.610		mg/l	0.0100	0.00327	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Arsenic, Total	0.1263		mg/l	0.00050	0.00016	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Barium, Total	0.08595		mg/l	0.00050	0.00017	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Calcium, Total	67.2		mg/l	1.00	0.394	10	03/26/24 13:10	03/27/24 14:24	EPA 3005A	1,6020B	EJF
Chromium, Total	0.00216		mg/l	0.00100	0.00017	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.00089		mg/l	0.00050	0.00016	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Copper, Total	0.00311		mg/l	0.00100	0.00038	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Iron, Total	8.47		mg/l	0.0500	0.0191	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Lead, Total	0.00345		mg/l	0.00100	0.00034	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Magnesium, Total	12.0		mg/l	0.0700	0.0242	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Manganese, Total	1.984		mg/l	0.00100	0.00044	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/26/24 12:23	03/28/24 09:26	EPA 7470A	1,7470A	SMV
Nickel, Total	0.00236		mg/l	0.00200	0.00055	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Potassium, Total	6.23		mg/l	0.100	0.0309	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Sodium, Total	95.4		mg/l	0.100	0.0293	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Thallium, Total	ND		mg/l	0.00100	0.00014	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF
Zinc, Total	0.00836	J	mg/l	0.01000	0.00341	1	03/26/24 13:10	03/27/24 13:41	EPA 3005A	1,6020B	EJF



Serial_No:03282410:46

L2415630

Project Name: ONE DUTCHESS

Project Number: 9039 **Report Date:**

03/28/24

Lab Number:

Method Blank Analysis Batch Quality Control

Parameter	Result Qu	alifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield	Lab for sam	nple(s):	01-03 E	atch: WO	G190085	57-1				
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Barium, Total	ND		mg/l	0.00050	0.00017	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Calcium, Total	ND		mg/l	0.100	0.0394	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Chromium, Total	0.00084	J	mg/l	0.00100	0.00017	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Copper, Total	0.00059	J	mg/l	0.00100	0.00038	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Iron, Total	ND		mg/l	0.0500	0.0191	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Manganese, Total	ND		mg/l	0.00100	0.00044	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Potassium, Total	ND		mg/l	0.100	0.0309	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Sodium, Total	ND		mg/l	0.100	0.0293	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Thallium, Total	ND		mg/l	0.00100	0.00014	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF
Zinc, Total	ND		mg/l	0.01000	0.00341	1	03/26/24 13:10	03/27/24 12:02	1,6020B	EJF

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Mans	sfield Lab for sample(s):	01-03 E	Batch: WO	G19008	59-1				
Mercury, Total	ND	mg/l	0.00020	0.00009) 1	03/26/24 12:23	03/27/24 12:59	1,7470A	MJR



Serial_No:03282410:46

Project Name: ONE DUTCHESS **Lab Number:** L2415630

Project Number: 9039 Report Date: 03/28/24

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7470A



Lab Control Sample Analysis Batch Quality Control

Project Name: ONE DUTCHESS

Project Number: 9039

Lab Number: L2415630

Report Date: 03/28/24

Parameter	LCS %Recovery	LCSD Qual %Recovery	%Recovery Qual Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample	(s): 01-03 Bate	ch: WG1900857-2				
Aluminum, Total	98	-	80-120	-		
Antimony, Total	91	-	80-120	-		
Arsenic, Total	103	-	80-120	-		
Barium, Total	107	-	80-120	-		
Beryllium, Total	109	-	80-120	-		
Cadmium, Total	104	-	80-120	-		
Calcium, Total	109	-	80-120	-		
Chromium, Total	102	-	80-120	-		
Cobalt, Total	106	-	80-120	-		
Copper, Total	108	-	80-120	-		
Iron, Total	107	-	80-120	-		
Lead, Total	107	-	80-120	-		
Magnesium, Total	94	-	80-120	-		
Manganese, Total	103	-	80-120	-		
Nickel, Total	107	-	80-120	-		
Potassium, Total	97	-	80-120	-		
Selenium, Total	101	-	80-120	-		
Silver, Total	99		80-120	-		
Sodium, Total	88	-	80-120	-		
Thallium, Total	100	-	80-120	-		
Vanadium, Total	100	-	80-120	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: ONE DUTCHESS

Project Number: 9039

Lab Number: L2415630

Report Date: 03/28/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associa	ted sample(s): 01-03 Batch: WG	61900857-2			
Zinc, Total	107	-	80-120	-	
Total Metals - Mansfield Lab Associa	ted sample(s): 01-03 Batch: WG	31900859-2			
Mercury, Total	88	-	80-120	-	



Matrix Spike Analysis Batch Quality Control

Project Name: ONE DUTCHESS

Project Number: 9039

Lab Number:

L2415630

Report Date:

03/28/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery Q	Recovery ual Limits	RPD Qual	RPD Limits
Total Metals - Mansfield Lab	b Associated sar	nple(s): 01-03	QC Ba	tch ID: WG190	0857-3	QC Sam	ple: L2415213-01	Client ID: MS	Sample	
Aluminum, Total	0.005J	2	2.01	100		-	-	75-125	-	20
Antimony, Total	0.0011J	0.5	0.5472	109		-	-	75-125	-	20
Arsenic, Total	0.0005J	0.12	0.1316	110		-	-	75-125	-	20
Barium, Total	0.1977	2	2.480	114		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.05723	114		-	-	75-125	-	20
Cadmium, Total	0.0002J	0.053	0.05732	108		-	-	75-125	-	20
Calcium, Total	76.4	10	87.5	111		-	-	75-125	-	20
Chromium, Total	0.0018	0.2	0.2088	104		-	-	75-125	-	20
Cobalt, Total	0.0016	0.5	0.5404	108		-	-	75-125	-	20
Copper, Total	0.03947	0.25	0.3175	111		-	-	75-125	-	20
Iron, Total	0.254	1	1.30	105		-	-	75-125	-	20
Lead, Total	0.00492	0.53	0.6218	116		-	-	75-125	-	20
Magnesium, Total	10.0	10	18.2	82		-	-	75-125	-	20
Manganese, Total	1.126	0.5	1.642	103		-	-	75-125	-	20
Nickel, Total	0.0026	0.5	0.5413	108		-	-	75-125	-	20
Potassium, Total	4.53	10	14.6	101		-	-	75-125	-	20
Selenium, Total	ND	0.12	0.125	104		-	-	75-125	-	20
Silver, Total	ND	0.05	0.05176	104		-	-	75-125	-	20
Sodium, Total	190	10	198	80		-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1279	106		-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.5159	103		-	-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: ONE DUTCHESS

Project Number: 9039

Lab Number:

L2415630

Report Date:

03/28/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits F	RPD RPD Limit	
Total Metals - Mansfield Lab A	ssociated sam	ple(s): 01-03	QC Ba	tch ID: WG1900857-3	QC Sam	ple: L2415213-01	Client ID: MS S	Sample	
Zinc, Total	0.1175	0.5	0.6604	108	-	-	75-125	- 20	
Total Metals - Mansfield Lab A	ssociated sam	ple(s): 01-03	QC Ba	tch ID: WG1900859-3	QC Sam	ple: L2415630-01	Client ID: PR-M	1W-4	
Mercury, Total	ND	0.005	0.00440	88	-	-	75-125	- 20	



Lab Duplicate Analysis Batch Quality Control

Project Name: ONE DUTCHESS

Project Number: 9039

L2415630 03/28/24

Lab Number:

Report Date:

Parameter I	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03	QC Batch ID:	WG1900857-4 QC Sample:	L2415213-01	Client ID:	DUP Sam	ple
Copper, Total	0.03947	0.03918	mg/l	1		20
Lead, Total	0.00492	0.00613	mg/l	22	Q	20
Selenium, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.1175	0.1171	mg/l	0		20
Total Metals - Mansfield Lab Associated sample(s): 01-03	QC Batch ID:	WG1900859-4 QC Sample:	L2415630-01	Client ID:	PR-MW-4	
Mercury, Total	ND	ND	mg/l	NC		20



Serial_No:03282410:46

Project Name: ONE DUTCHESS Lab Number: L2415630

Project Number: 9039 Report Date: 03/28/24

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler Custody Seal

A Absent

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рH	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2415630-01A	Plastic 250ml HNO3 preserved	A	<2	<2	3.6	Y	Absent		SE-6020T(180),TL-6020T(180),BA-6020T(180),FE-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),CA-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),PB-6020T(180),BB-6020T(180),MN-6020T(180),SB-6020T(180),AG-
L2415630-02A	Plastic 250ml HNO3 preserved	А	<2	<2	3.6	Y	Absent		SE-6020T(180),FE-6020T(180),BA-6020T(180),TL-6020T(180),NI-6020T(180),K-6020T(180),CA-6020T(180),CA-6020T(180),CA-6020T(180),CU-6020T(180),ZN-6020T(180),CU-6020T(180),AS-6020T(180),MS-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),CD-6020T(180),AG-6020T(180),AL-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2415630-03A	Plastic 250ml HNO3 preserved	Α	<2	<2	3.6	Y	Absent		FE-6020T(180),TL-6020T(180),BA-6020T(180),SE-6020T(180),NI-6020T(180),K-6020T(180),CA-6020T(180),CR-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),AS-6020T(180),MN-6020T(180),AS-6020T(180),BS-6020T(180),BS-6020T(180),BS-6020T(180),HG-T(28),MG-6020T(180),AG-6020T(180),AL-6020T(180),CO-6020T(180),AL-6020T(180),CO-6020T(180)



Project Name: Lab Number: ONE DUTCHESS L2415630

Project Number: 9039 **Report Date:** 03/28/24

GLOSSARY

Acronyms

LOQ

MS

RPD

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case

estimate of the concentration. **EPA**

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

Environmental Protection Agency.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

MDI - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile NR

Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEO - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound

list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name:ONE DUTCHESSLab Number:L2415630Project Number:9039Report Date:03/28/24

Footnotes

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

Terms

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

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benza(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name:ONE DUTCHESSLab Number:L2415630Project Number:9039Report Date:03/28/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Serial_No:03282410:46

Project Name:ONE DUTCHESSLab Number:L2415630Project Number:9039Report Date:03/28/24

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

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

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



Serial_No:03282410:46

Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 20

Published Date: 6/16/2023 4:52:28 PM

Page 1 of 1

Certification Information

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

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; 4-Ethyltoluene, Az

EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kieldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Pre-Qualtrax Document ID: 08-113 Document Type: Form

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Qualifier Key

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

New York TOGS 111 Groundwater Effluent Limitations criteria reflects all addendum to criteria through June 2004.





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



Sit	e No. C314081	Site Details	Box 1				
Sit	e Name Former A.C. Dutton Lumbe	er Yard					
Cit Co	e Address: 1 Dutchess Avenue y/Town: Poughkeepsie unty: Dutchess e Acreage: 11.840	Zip Code: 12601					
Re	porting Period: April 01, 2023 to April	l 01, 2024					
			YES	NO			
1.	Is the information above correct?		X				
	If NO, include handwritten above or	on a separate sheet.					
2.	Has some or all of the site property to tax map amendment during this Rep	peen sold, subdivided, merged, or undergone a porting Period?		X			
3.	Has there been any change of use a (see 6NYCRR 375-1.11(d))?		X				
4.	Have any federal, state, and/or local for or at the property during this Rep		X				
		2 thru 4, include documentation or evidence viously submitted with this certification form					
5.	Is the site currently undergoing deve	elopment?	X				
			Box 2				
			YES	NO			
6.	Is the current site use consistent with Restricted-Residential, Commercial,	` ,	X				
7.	Are all ICs in place and functioning a	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 iss	ues.			
Sig	nature of Owner, Remedial Party or De	signated Representative Date					

		Box 2	A
		YES	NO
8.	Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?		x
	If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9.	Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	X	
	If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		
SITI	E NO. C314081	Воз	k 3
	Description of Institutional Controls		

Parcel Owner Institutional Control

6062-02-763508 One Dutchess Phase 3, LLC

Site Management Plan Ground Water Use Restriction

Landuse Restriction

Soil Management Plan Monitoring Plan IC/EC Plan

The property may be used for: Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), 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);

The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Dutchess 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;

Groundwater monitoring must be performed as defined in the SMP;

All future activities on the property that will disturb remaining contaminated material must be conducted in addordance with the SMP;

6062-59-766443

One Dutchess Phase 2, LLC

Site Management Plan Soil Management Plan Monitoring Plan

IC/EC Plan

Ground Water Use Restriction Landuse Restriction

The property may be used for: Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), 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);

The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Dutchess 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;

Groundwater monitoring must be performed as defined in the SMP;

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

Box 4

Description of Engineering Controls

Parcel <u>Engineering Control</u>

6062-02-763508

Cover System

Exposure to remaining contamination at the site is prevented by a soil cover system placed over the site. This cover system is comprised of a minimum of 24 inches of clean soil. Asphalt pavement, concrete-covered sidewalks, and concrete building slabs and two-feet of clean soil in landscaped areas will be part of the covers system when the site is developed.

6062-59-766443

Cover System

Parcel	Engineering Control

Exposure to remaining contamination at the site is prevented by a soil cover system placed over the site. This cover system is comprised of a minimum of 24 inches of clean soil. Asphalt pavement, concrete-covered sidewalks, and concrete building slabs and two-feet of clean soil in landscaped areas will be part of the covers system when the site is developed.

Box 5

Periodic Review Report (PRR) Certification Statements

- 1. I certify by checking "YES" below that:
 - a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the 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 compete.

YES NO

X

- 2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:
 - (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
 - (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
 - (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
 - (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
 - (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

X

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS SITE NO. C314081

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.

renai Law.	
Paylor O'Neill at 241 print name	print business address 0766
am certifying as	(Owner or Remedial Party)
for the Site named in the Site Details Section of this	form.
10 C 000 00	- 4/29/24
Signature of Owner, Remedial Party, or Designated	Representative Date
Rendering Certification	

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.

Steven Gustems at	959 Route 46, Parsippany, NJ 07054
print name	print business address
am certifying as a Qualified Environmental Pr	ofessional for the Owner
, ,	(Owner or Remedial Party)
Ster Duston	5/10/2024
Signature of Qualified Environmental Profess the Owner or Remedial Party, Rendering Cer	