

2022 PERIODIC REVIEW REPORT

FORMER A.C. DUTTON LUMBER YARD DUTCHESS COUNTY, NEW YORK

NYSDEC Site # C314081

REPORTING PERIOD April 1, 2021 – April 1, 2022

Prepared for:

THE O'NEILL GROUP – DUTTON, LLC 24 Hudson Street Hackensack, New Jersey 07601

Prepared by:

SESI CONSULTING ENGINEERS D.P.C. 12A Maple Avenue Pine Brook, NJ 07058

May 2022

Project No.: 9039E

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LIST OF ACRONYMS

Acronym	Definition	
AWQS	Ambient Water Quality Standards	
BCA	Brownfield Cleanup Agreement	
BCP	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	
ICs	Institutional Controls	
MW	Monitoring Well	
NYSDEC	New York State Department of Environmental Conservation	
РАН	Polycyclic Aromatic Hydrocarbons	
РСВ	Polychlorinated Biphenyls	
ppm	Parts per million	
RA	Remedial Action	
RAWP	Remedial Action Work Plan	
RDWP	Remedial Design Work Plan	
RI	Remedial Investigation	
RIR	Remedial Investigation Report	
RIWP	Remedial Investigation Work Plan	
SCG	Standards, Criteria, and Guidance	
SCO	Soil Cleanup Objectives	
SESI	SESI Consulting Engineers, PC	
SMP	Site Management Plan	
SVOCs	Semi-Volatile Organic Compounds	
TOGS	Technical and Operations Guidance Series	
USEPA	United States Environmental Protection Agency	
UST	Underground Storage Tank	

Acronym	Definition
VOCs	Volatile Organic Compounds

1.0 INTRODUCTION

1.1 SUMMARY

This is the Periodic Review Report (PRR) for the period April 1, 2021 to April 2022. 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 on the Site remains intact. The cover system has been and will continue to be effective in preventing public exposure to the residual contamination.

During this period, the construction on the proposed building has continued. The building foundations were constructed, and during this work, the demarcation layer was

breached and replaced with the concrete solid surface within the footprint of the building foundation.

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 31, 2022. The monitoring well network consists of the following:

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

Monitoring well PR-MW-3 has been covered under a geotechnical surcharge pile for the past two (2) reporting periods. The surcharge pile has been removed and the location of PR-MW-3 was marked on pavement by the surveyor. However, attempts by the driller, Coastal Environmental Solutions to locate the well at its surveyed location were unsuccessful. Therefore, closure of this well is not possible.

Arsenic was detected in monitoring well PR-MW-4 (36.08 ug/L), below the NYSDEC TOGS limitation of 50 ug/L. Arsenic was detected in monitoring well PR-MW-2 (118 ug/L) exceeding the NYSDEC Technical and Operations Guidance Series (TOGS) effluent limitation of 50 ug/L. 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 reach asymptotic levels in PR-MW-2. A summary of the analytical data for the March 31, 2022 sampling event is provided in **Table 1.1 in Appendix B**.

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 31, 2022 to verify the integrity of the ECs in accordance with the Inspection Checklist provided in **Appendix C**.

The groundwater monitoring wells PR-MW-2 and PR-MW-4 were sampled on March 31, 2022, and analyzed for metals in accordance with the monitoring program in the SMP.

1.4 **RECOMMENDATIONS**

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, SESI recommends the halt of the groundwater monitoring program and abandonment of the wells.
- 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 Bank owned by the State of New York to the west.

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 (USTs). 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 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.
- 2. 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 ¹/₂ 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 will consist 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 soil cleanup objective (SCO) approved by the NYSDEC. The cover will also include 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.
- 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.

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		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		10/22/2011
Scarification w aste 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 w aste 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

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

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 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; and (2) 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.

In order to monitor the effectiveness of the contaminant removal and the Site natural attenuation, an on-Site monitoring well network is sampled on an annual basis. **Table 3.1 in Appendix B** provides a tabular summary of the groundwater monitoring results of the March 31, 2022 sampling event. Arsenic was detected in monitoring wells PR-MW-4 (36.08 ug/L) below the NYSDEC TOGS limitation of 50 ug/L. Arsenic was detected in monitoring well PR-MW-2 (118 ug/L) exceeding the NYSDEC TOGS effluent limitation of 50 ug/L. Based upon comparison with historical sampling events, the concentrations of arsenic are trending down and have reached asymptotic levels in PR-MW-2 and are below the TOGS levels in PR-MW-4. The monitoring well locations are depicted in Figure 1.3 of the SMP, presented in **Appendix A**. The laboratory analytical data packages are provided in **Appendix B**. **Table 3.2** Below presents the historic data of arsenic.

Sample ID	Effluent Limitation Class GA	6/23/2015	1/26/2016	10/14/2016	11/21/2017	3/15/2019	3/27/2020	3/2/2021	3/31/2022
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PR-MW1	50	16	16	6.6	5.6	NA	NA	NA	NA
PR-MW2	50	27	130	176	302	200	NA	NA	118
PR-MW3	50	2.3	9.9	2.3	2.9	NA	NA	NA	NA
PR-MW4	50	8.9	80	23.9	32.5	31.4	85.59	63.73	36.08

Table 3.2: Historic Data for Arsenic in Groundwater

Notes: Ug/L = Micrograms per Liter NA = Not Analyzed

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 D**.

5.0 MONITORING PLAN COMPLIANCE

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

Table 5.1: Monitoring Program Frequency

Monitoring Completed During Current Reporting Period

Inspection of the composite cover system was conducted on March 31, 2022. Monitoring wells PR-MW-2 and PR-MW-4 were sampled on March 31, 2022. PR-MW-3 was to be decommissioned as required by NYSDEC. However, attempts to locate the well at its surveyed location by Coastal Environmental Solutions and SESI were unsuccessful. Therefore, this well cannot be decommissioned.

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 was observed to include the foundations of the building during the visual inspection that was conducted on March 31, 2022. The building construction will continue for the next 12 to 18 months. Once the building and the surrounding areas are completed, the SMP will be updated to reflect the new cover system components and as-built drawings. The composite cover system inspection form is included with the Site Inspection Forms denoted as **Appendix C**.

During the annual monitoring well sampling event conducted on March 31, 2022, arsenic was detected in PR-MW-4 (36.08 ug/L), below the NYSDEC TOGS limitation of 50 ug/L. Arsenic was detected in monitoring wells PR-MW-2 (118 ug/L) exceeding the NYSDEC TOGS effluent limitation of 50 ug/L. Based upon comparison with historical sampling

events the concentrations of arsenic are trending down and have reach asymptotic levels in PR-MW-2 and are below the TOGS levels in PR-MW-4. A summary of the analytical data for the March 31, 2022 sampling event is provided in **Table 1.1 in Appendix B**.

Monitoring Deficiencies

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

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 reach asymptotic levels in PR-MW-2. Therefore, SESI recommends the discontinuance of the monitoring program and abandonment of the wells.
- Cover system: continue the annual visual inspection of the cover system.

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 proposed building footings. 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 2023.

Recommendations

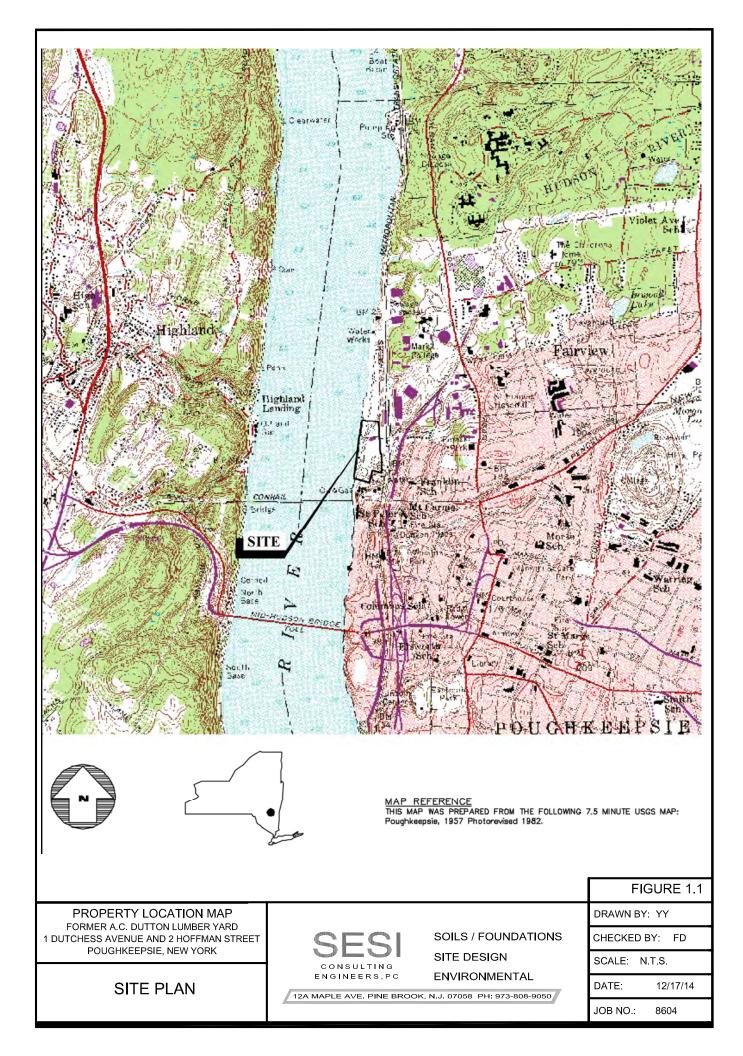
We recommend the following for the next reporting period:

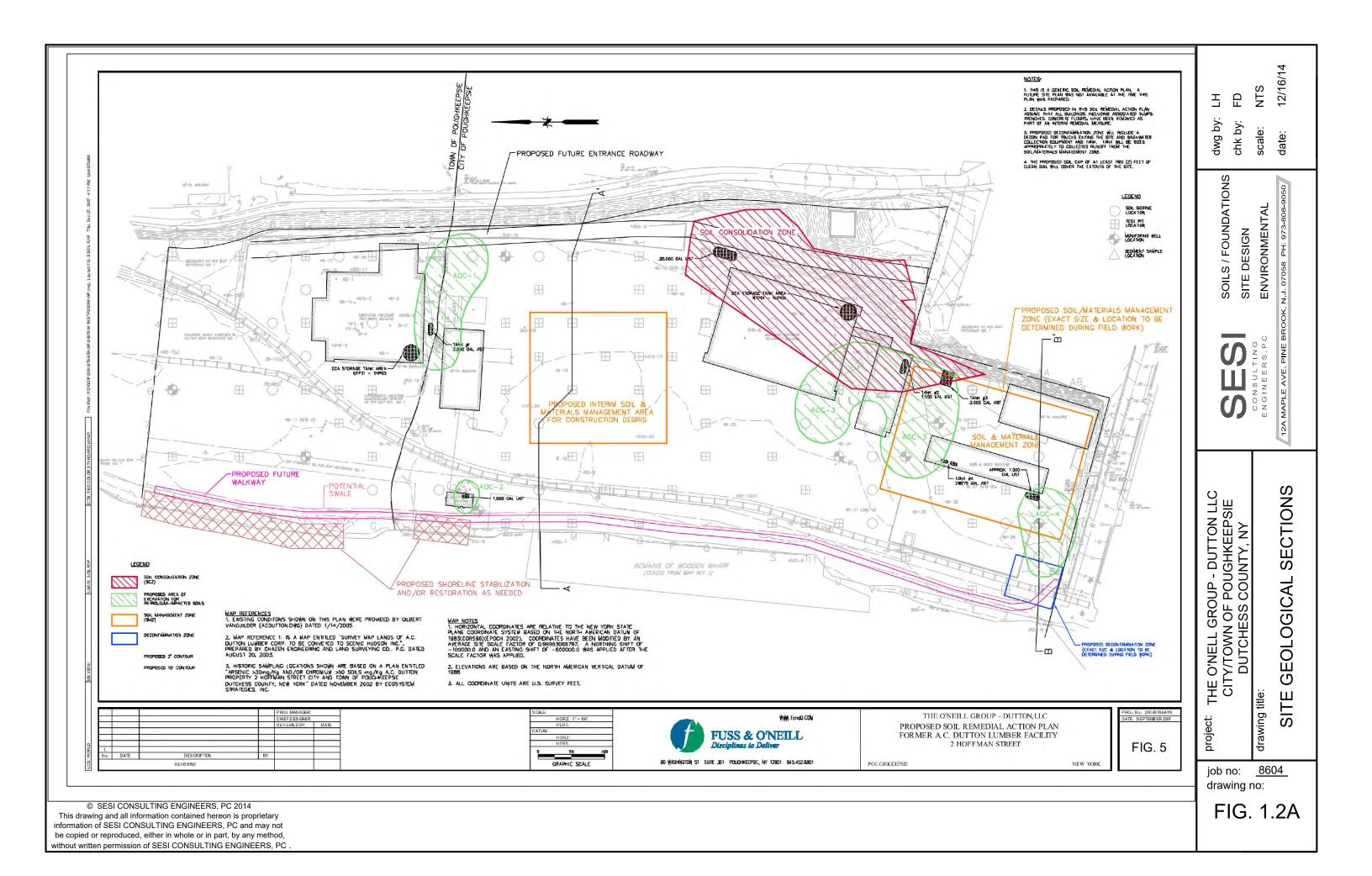
• Groundwater Monitoring: Based upon comparison with historical sampling events, the concentrations of arsenic are trending down and are below the TOGS levels in PR-MW-4 and have reach asymptotic levels in PR-MW-2. Therefore,

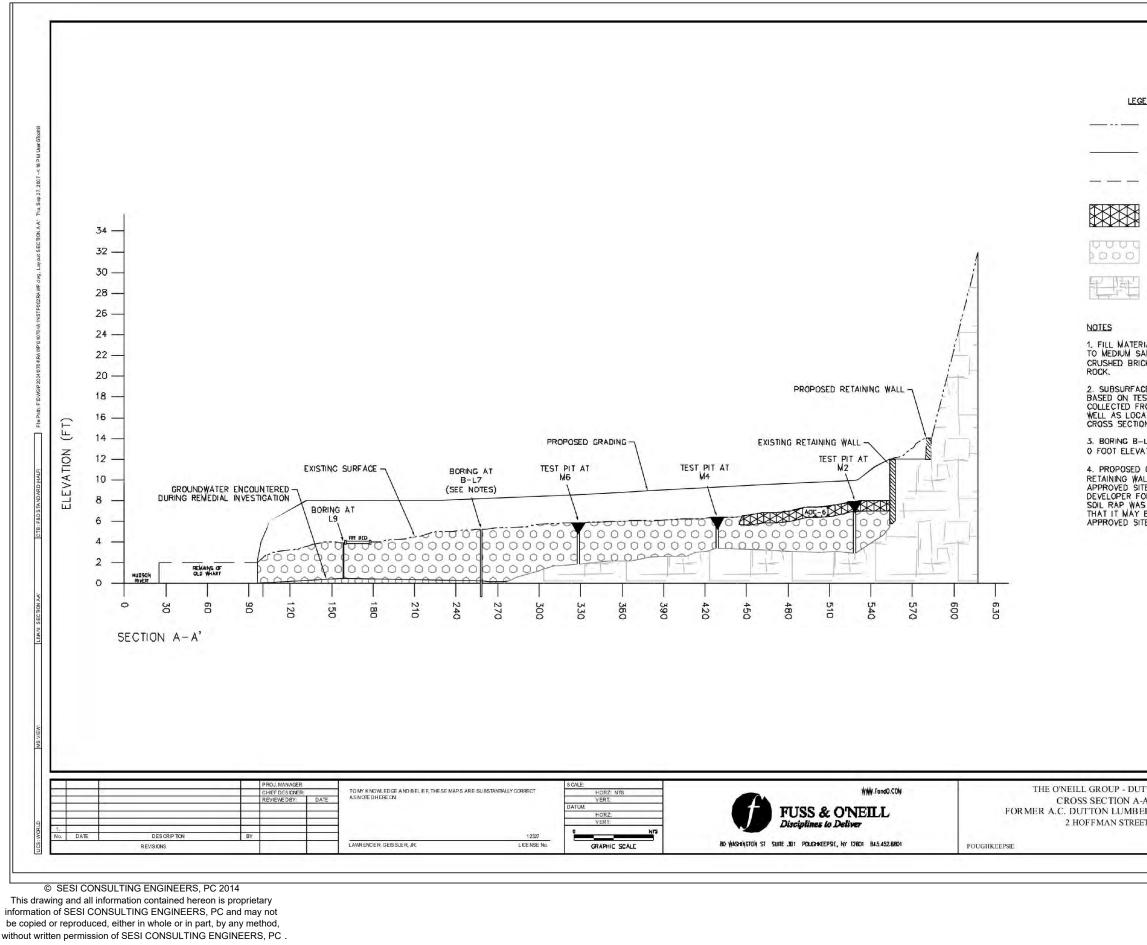
SESI recommends the halt of the monitoring program and abandonment of the wells.

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

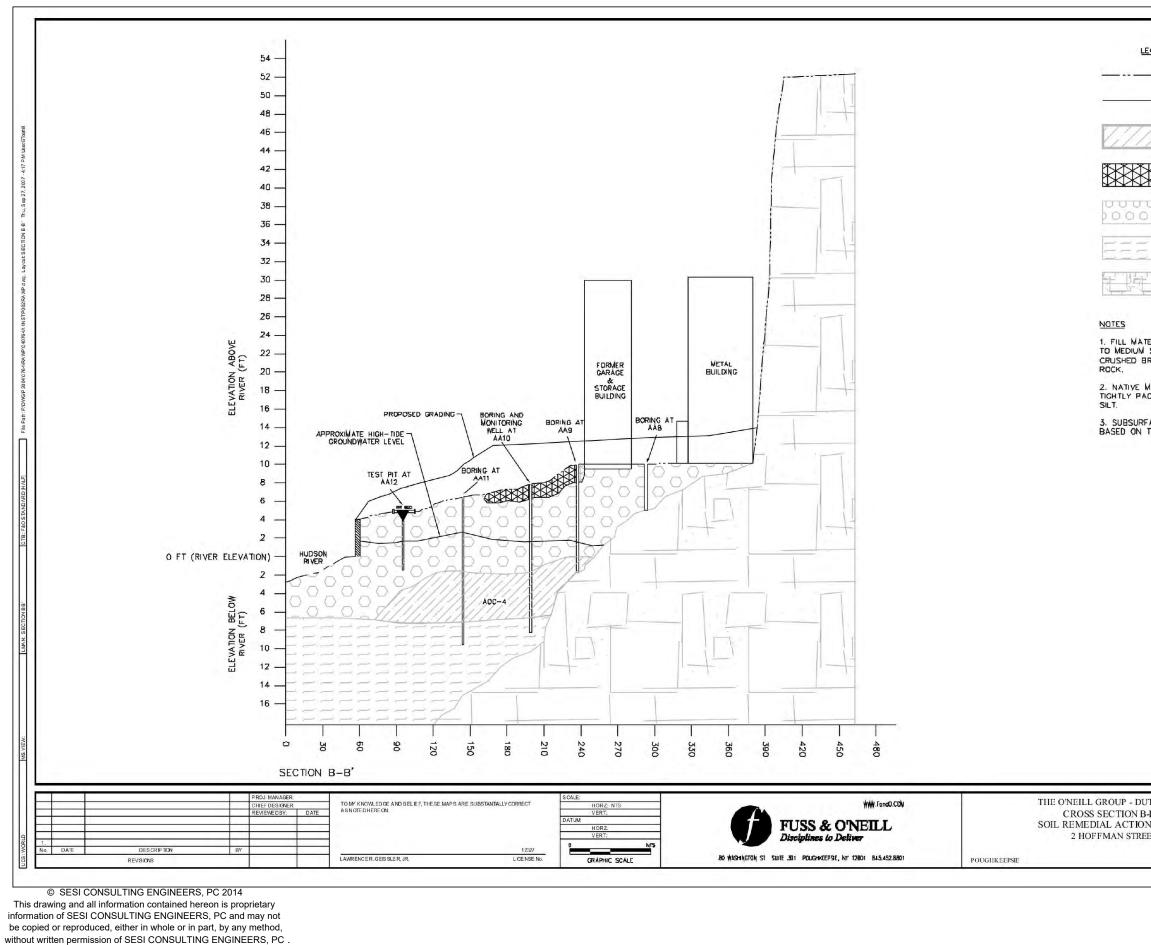
Appendix A: SMP Figures



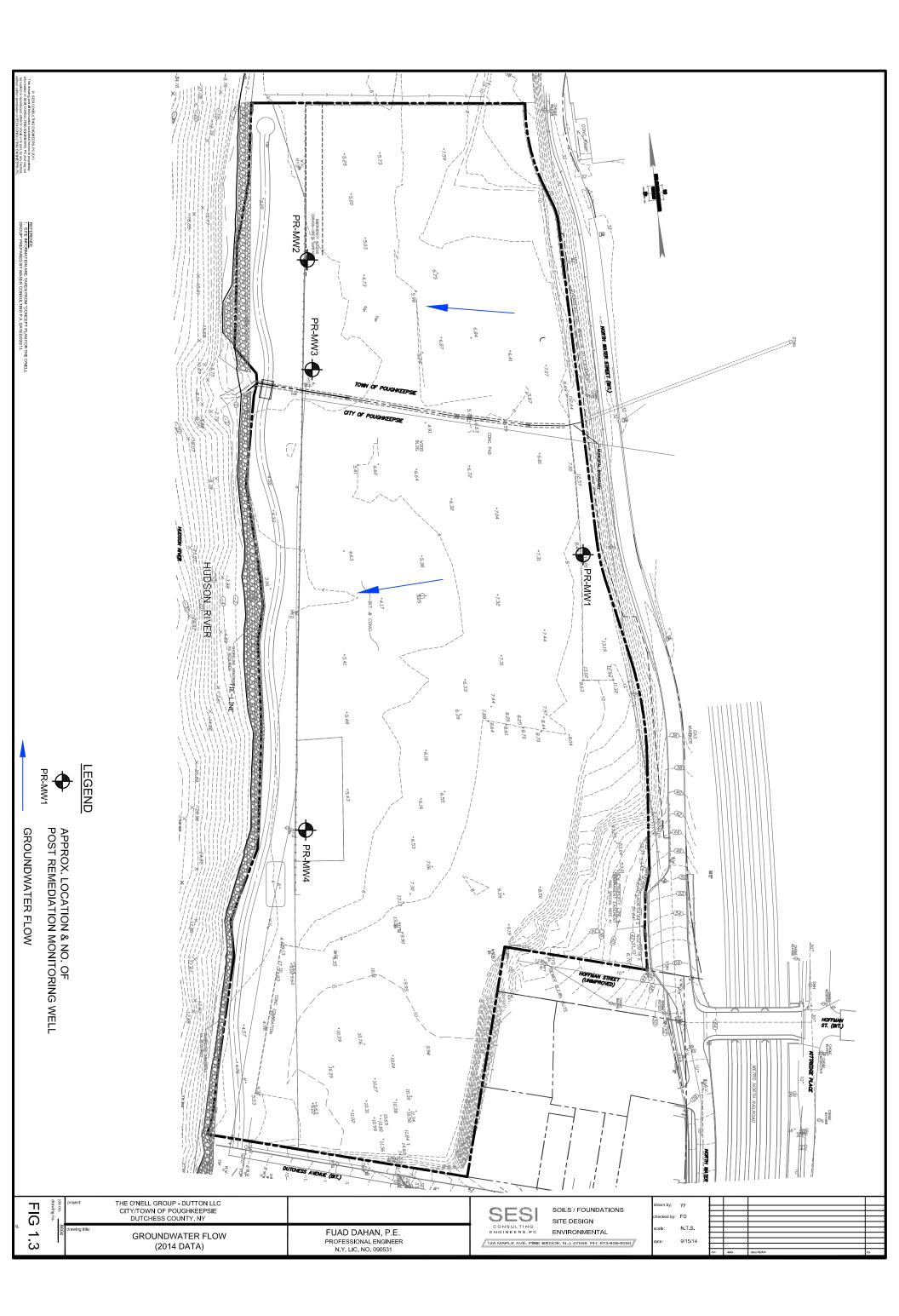


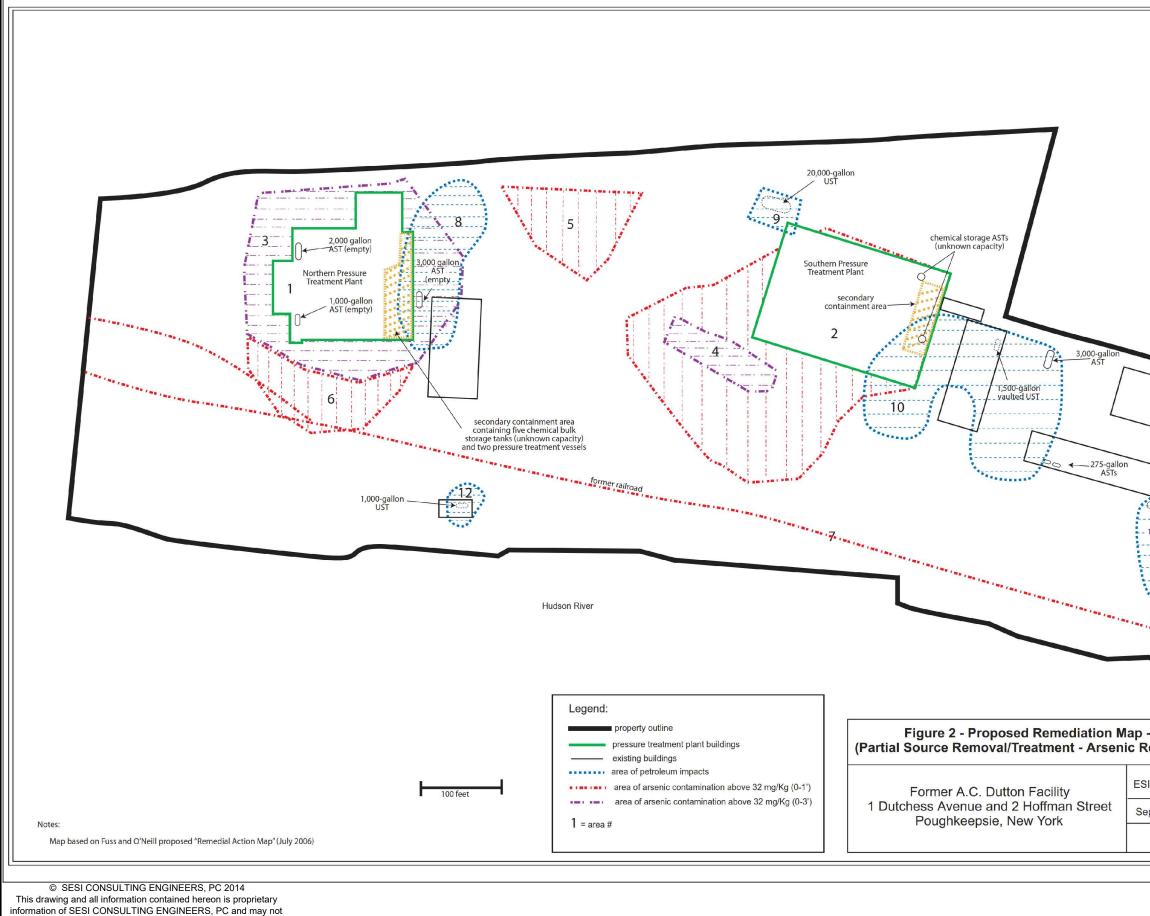


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	FIG. 1.2B



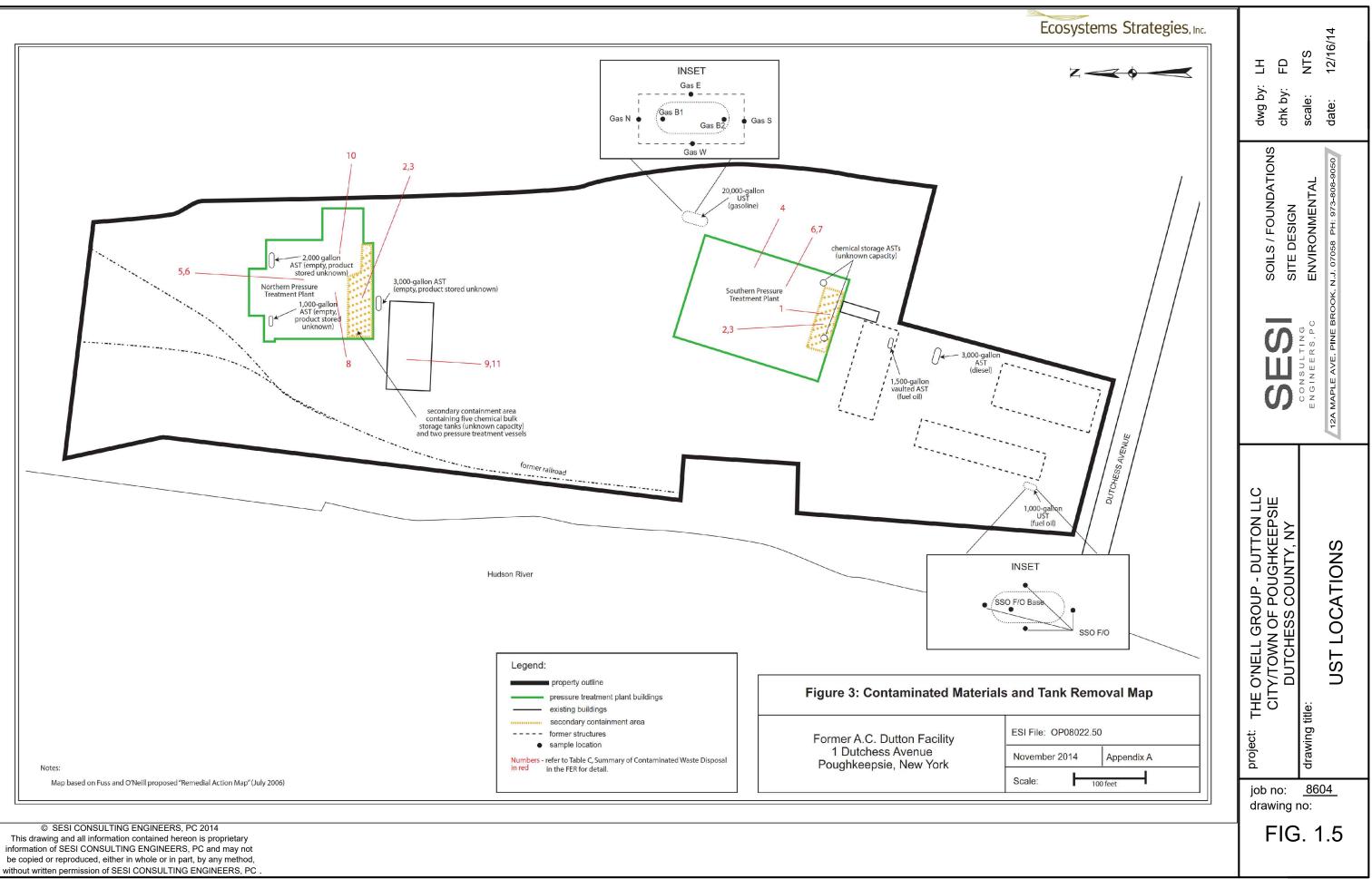
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	FIG. 1.2C

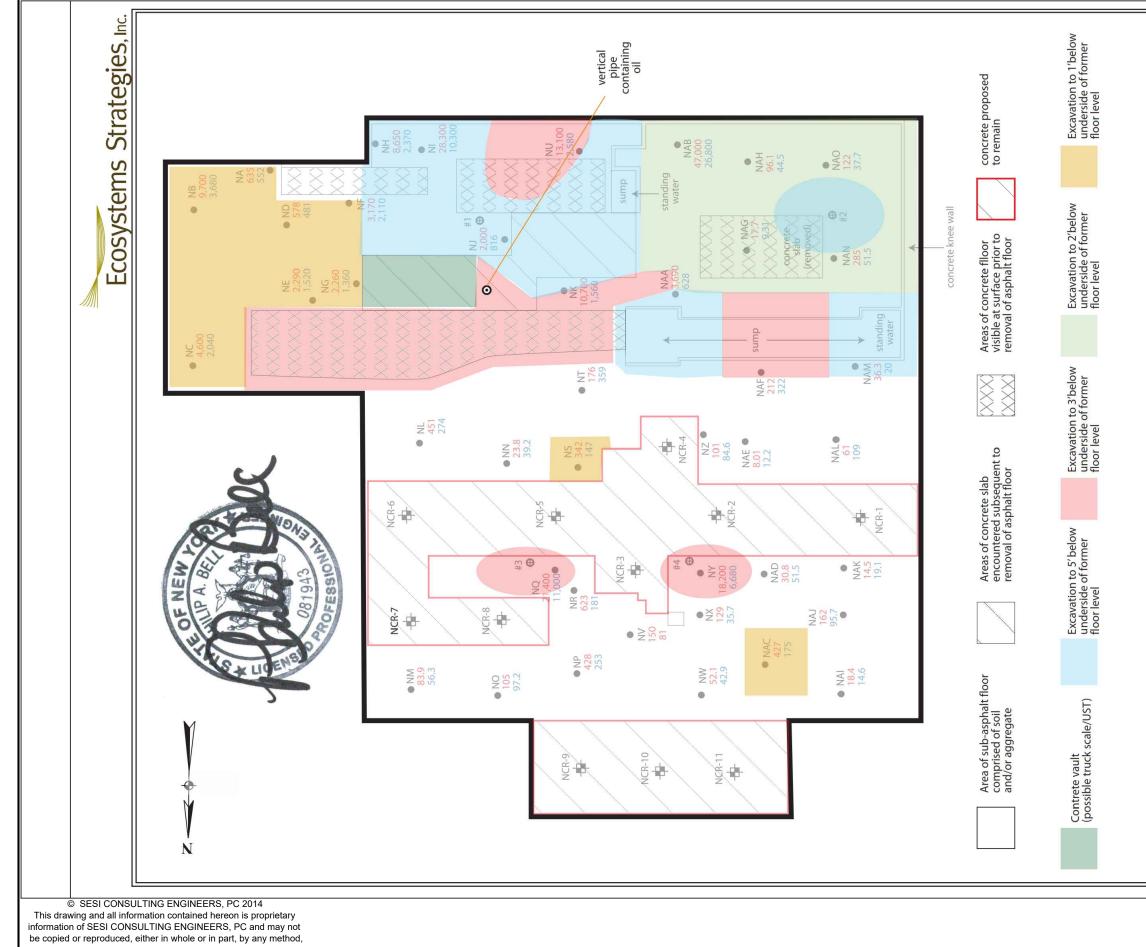




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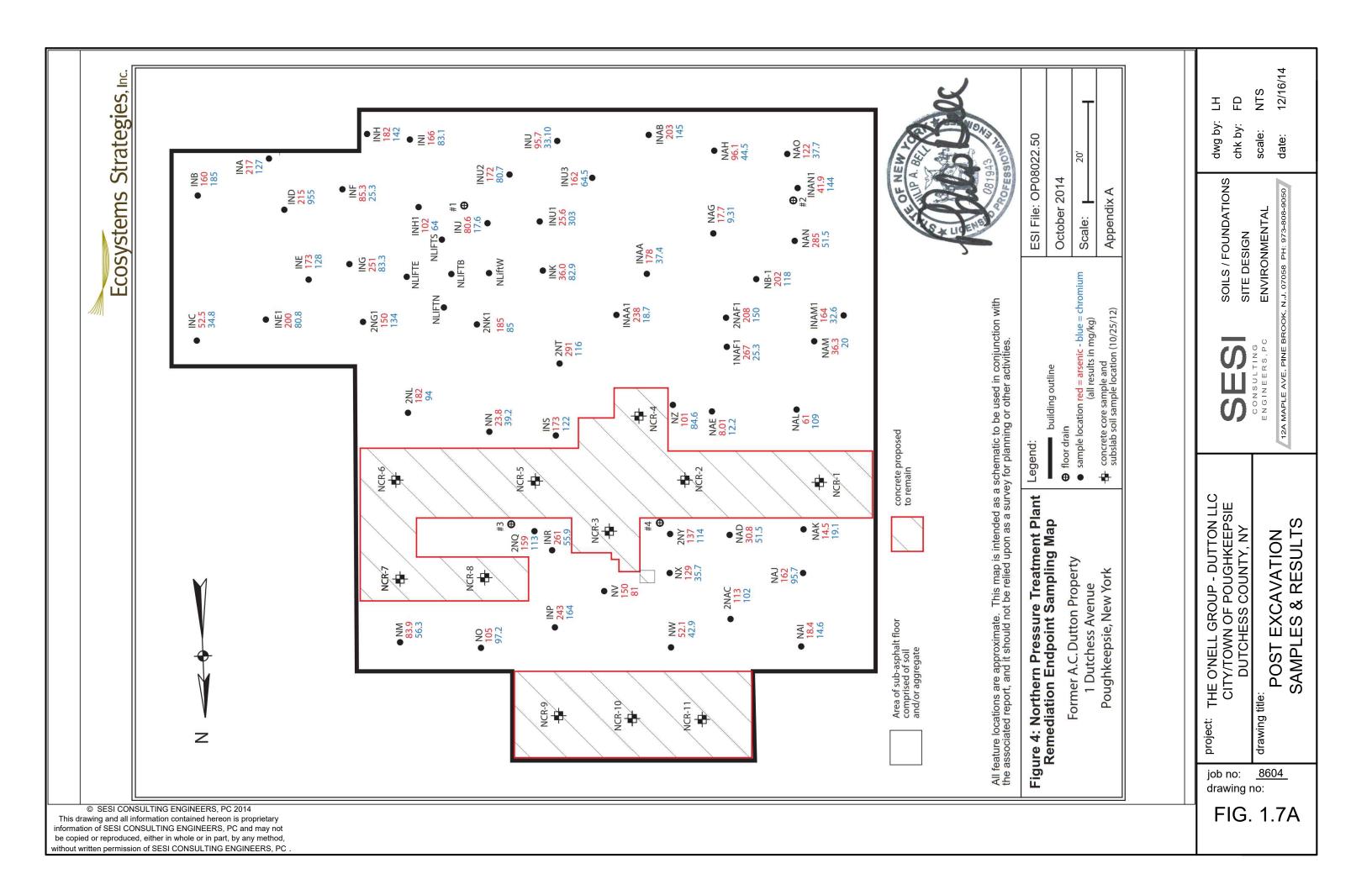
Z	dwg by: LH chk by: FD scale: NTS date: 12/16/14
	SOILS / FOUNDATIONS SOILS / FOUNDATIONS SITE DESIGN CONSULTING ENGINEERS, PC ENVIRONMENTAL IZA MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050
SNUE	CONSULTING CONSULTING ENGINEERS, PC
DUTCHESS AVENUE	<pre>lect: THE O'NELL GROUP - DUTTON LLC CITY/TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY wing title: 2008 INVESTIGATION RESULTS</pre>
- Excavation/Treatment emediated to SBL of 32 mg/kg) I File: OP08022.41 ptember 2008 Appendix B	project: THE O'I CITY/ CITY/ drawing title: 2008 INV
Ecosystems Strategies, Inc.	iob no: <u>8604</u> drawing no: FIG. 1.4

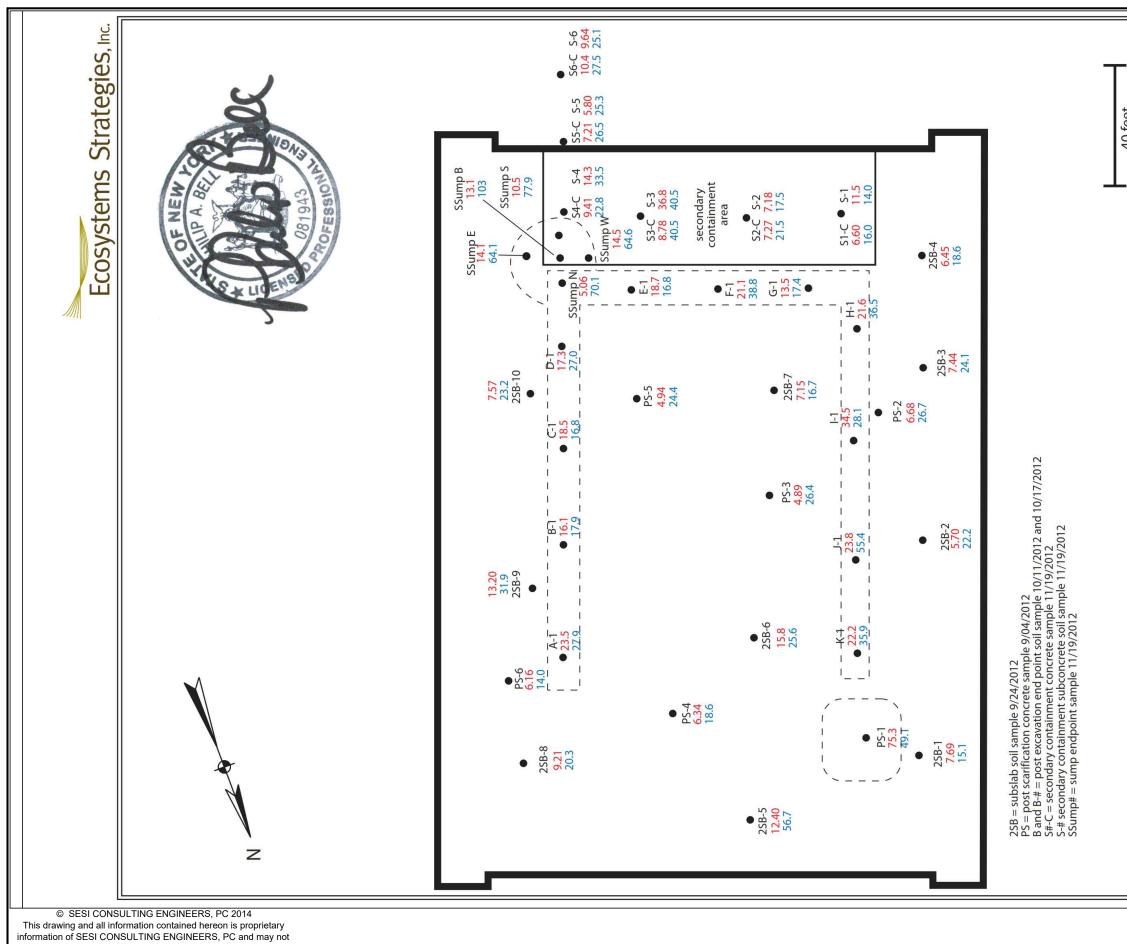




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1	All reature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.	chematic to be used in conjunction with for planning or other activities.	
	Figure 7 - Excavation Depths at NTP	Legend:	ESI File: OP08022.50
		 building outline floor drain 	October 2014
	former A.C. Dutton Property	 sample location red = arsenic - blue = chromium (all results in mg/kg) 	Scale: 20'
	ork	 concrete core sample and subslab soil sample location (10/25/12) 	Appendix A
drawing no: FIG. 1.6	project: THE O'NELL GROUP - DUTTON LLC CITY/TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY drawing title: EXCAVATION LOCATIONS & DEPTHS	CONSULTING CONSULTING ENGINEERS, PC	SOILS / FOUNDATIONS SITE DESIGN ENVIRONMENTAL L. 07058 PH: 973-808-9050 date: 12/16/14

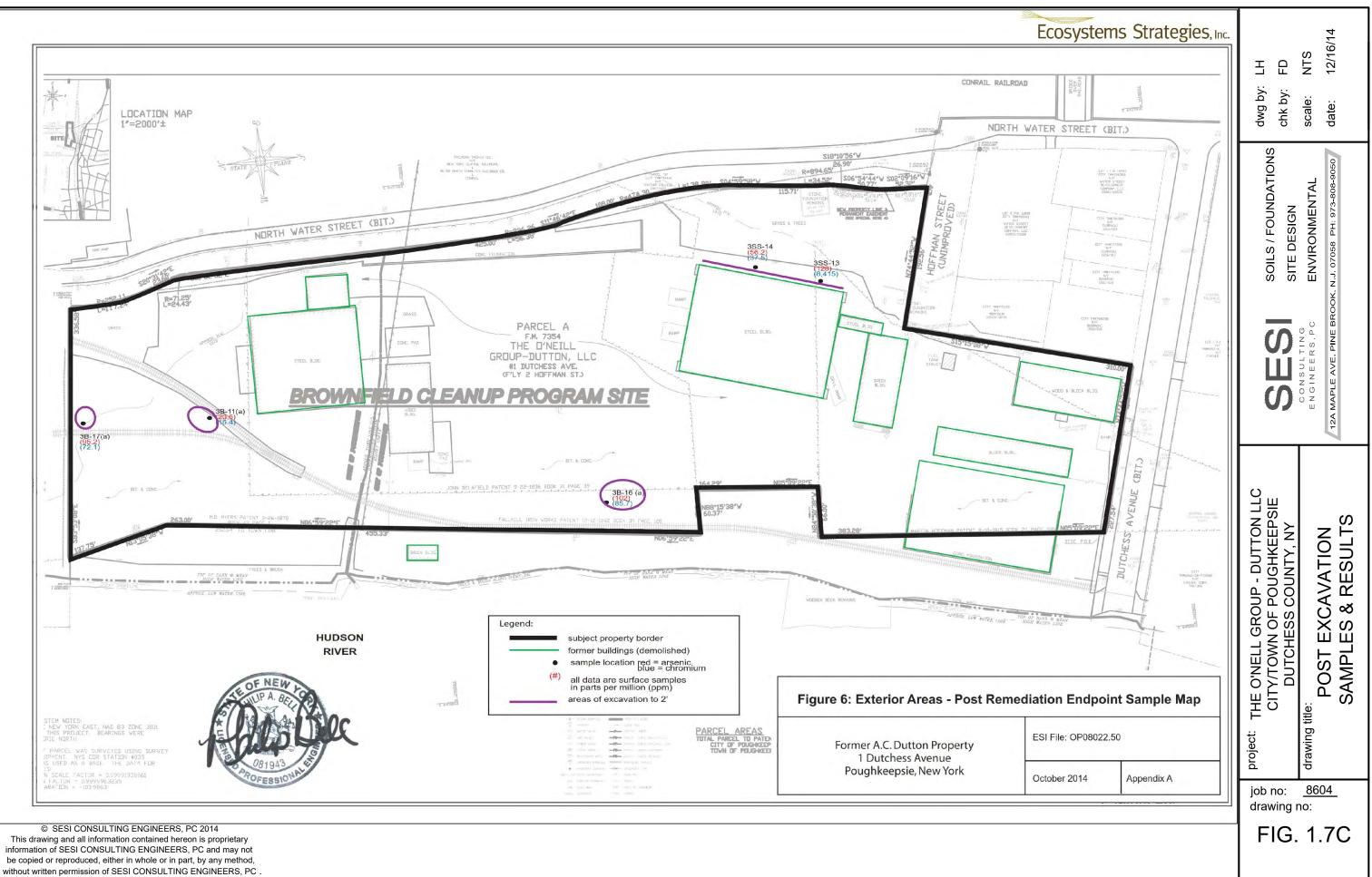




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40 feet

				1	7
	38022.50	4	0,		dwg by: LH chk by: FD scale: NTS date: 12/16/14
	ESI File: OP08022.50	October 2014	Scale: 1" = 40'	Appendix A	SOILS / FOUNDATIONS SITE DESIGN ENVIRONMENTAL
unction with es.			- blue = chromium	mg/kg)	SOILS / FOUNDAT SITE DESIGN ENVIRONMENTAL ROOK, N.J. 07058 PH: 973-8084
lematic to be used in conju or planning or other activiti	Legend:	building outline		(all results in mg/kg)	SOILS / FOUNDATION SOILS / FOUNDATION SITE DESIGN CONSULTING ENGINEERS, PC ENVIRONMENTAL
All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.		Post Remediation End Point Sampling Map	Street	Poughkeepsie, New York	project: THE O'NELL GROUP - DUTTON LLC CITY/TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY drawing title: POST EXCAVATION SAMPLES & RESULTS
τt Α		od			job no: <u>8604</u> drawing no:
					FIG. 1.7B



This drawing and all information contained hereon is proprietary information of SESI CONSULTING ENGINEERS, PC and may not be copied or reproduced, either in whole or in part, by any method,

Appendix B: Laboratory Analytical Reports and Summary Table



ANALYTICAL REPORT

Lab Number:	L2216873
Client:	Soils Engineering Services, Inc. 12A Maple Avenue Pine Brook, NJ 07058
ATTN:	Steven Gustems
Phone:	(973) 808-9050
Project Name:	ONE DUTCHESS
Project Number:	9039
Report Date:	04/22/22

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-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name:ONE DUTCHESSProject Number:9039

 Lab Number:
 L2216873

 Report Date:
 04/22/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2216873-01	PR-MW-4	WATER	1 DUTCHESS AVE	03/31/22 09:15	04/01/22
L2216873-02	PR-MW-2	WATER	1 DUTCHESS AVE	03/31/22 10:45	04/01/22
L2216873-03	DUP1	WATER	1 DUTCHESS AVE	03/31/22 00:00	04/01/22



Project Name: ONE DUTCHESS Project Number: 9039 Lab Number: L2216873 Report Date: 04/22/22

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.



Project Name: ONE DUTCHESS Project Number: 9039
 Lab Number:
 L2216873

 Report Date:
 04/22/22

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.

Melissa Sturgis Melissa Sturgis

Authorized Signature:

Title: Technical Director/Representative

Date: 04/22/22



METALS



L2216873

Project Name:	ONE DUTCHESS
Project Number:	9039

SAMPLE RESULTS

Lab ID:L2216873-01Client ID:PR-MW-4Sample Location:1 DUTCHESS AVE

Water

Sample Depth:

Matrix:

	Report Date:	04/22/22
JLTS		
	Date Collected:	03/31/22 09:15
	Date Received:	04/01/22
	Field Prep:	Not Specified

Lab Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	sfield Lab										
Aluminum, Total	0.701		mg/l	0.0100	0.00327	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Antimony, Total	0.00081	J	mg/l	0.00400	0.00042	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Arsenic, Total	0.03608		mg/l	0.00050	0.00016	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Barium, Total	0.02394		mg/l	0.00050	0.00017	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Calcium, Total	31.8		mg/l	0.100	0.0394	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Chromium, Total	0.00221		mg/l	0.00100	0.00017	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00070		mg/l	0.00050	0.00016	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Copper, Total	0.00823		mg/l	0.00100	0.00038	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Iron, Total	2.46		mg/l	0.0500	0.0191	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Lead, Total	0.00337		mg/l	0.00100	0.00034	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Magnesium, Total	6.28		mg/l	0.0700	0.0242	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Manganese, Total	0.5494		mg/l	0.00100	0.00044	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	04/14/22 20:30	04/15/22 14:53	EPA 7470A	1,7470A	DMB
Nickel, Total	0.00115	J	mg/l	0.00200	0.00055	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Potassium, Total	2.28		mg/l	0.100	0.0309	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Sodium, Total	30.3		mg/l	0.100	0.0293	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Vanadium, Total	0.00231	J	mg/l	0.00500	0.00157	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV
Zinc, Total	0.02858		mg/l	0.01000	0.00341	1	04/14/22 18:02	04/18/22 18:58	EPA 3005A	1,6020B	SV



L2216873

Project Name:	ONE DUTCHESS
Project Number:	9039

SAMPLE RESULTS

Lab ID:L2216873-02Client ID:PR-MW-2Sample Location:1 DUTCHESS AVE

Water

Sample Depth:

Matrix:

	Report Date:	04/22/22
SULTS		
	Date Collected:	03/31/22 10:45
	Date Received:	04/01/22
	Field Prep:	Not Specified

Lab Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Man	sfield Lab										
Aluminum, Total	2.18		mg/l	0.0100	0.00327	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Antimony, Total	0.00067	J	mg/l	0.00400	0.00042	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Arsenic, Total	0.1180		mg/l	0.00050	0.00016	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Barium, Total	0.1633		mg/l	0.00050	0.00017	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Beryllium, Total	0.00013	J	mg/l	0.00050	0.00010	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Cadmium, Total	0.00009	J	mg/l	0.00020	0.00005	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Calcium, Total	108.		mg/l	0.100	0.0394	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Chromium, Total	0.00574		mg/l	0.00100	0.00017	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00298		mg/l	0.00050	0.00016	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Copper, Total	0.01530		mg/l	0.00100	0.00038	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Iron, Total	67.9		mg/l	0.0500	0.0191	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Lead, Total	0.01319		mg/l	0.00100	0.00034	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Magnesium, Total	26.4		mg/l	0.0700	0.0242	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Manganese, Total	3.225		mg/l	0.00100	0.00044	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	04/14/22 20:30	04/15/22 14:57	EPA 7470A	1,7470A	DMB
Nickel, Total	0.00414		mg/l	0.00200	0.00055	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Potassium, Total	7.64		mg/l	0.100	0.0309	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Sodium, Total	64.5		mg/l	0.100	0.0293	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Vanadium, Total	0.00629		mg/l	0.00500	0.00157	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV
Zinc, Total	0.02504		mg/l	0.01000	0.00341	1	04/14/22 18:02	04/18/22 19:03	EPA 3005A	1,6020B	SV



L2216873

Project Name:	ONE DUTCHESS
Project Number:	9039

SAMPLE RESULTS

Lab ID:L2216873-03Client ID:DUP1Sample Location:1 DUTCHESS AVE

Sample Depth:

Matrix:

Water

	Report Date:	04/22/22
ULTS		
	Date Collected:	03/31/22 00:00
	Date Received:	04/01/22
	Field Prep:	Not Specified

Lab Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Man	sfield Lab										
Aluminum, Total	2.52		mg/l	0.0100	0.00327	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Antimony, Total	0.00073	J	mg/l	0.00400	0.00042	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Arsenic, Total	0.1325		mg/l	0.00050	0.00016	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Barium, Total	0.1788		mg/l	0.00050	0.00017	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Beryllium, Total	0.00016	J	mg/l	0.00050	0.00010	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Cadmium, Total	0.00011	J	mg/l	0.00020	0.00005	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Calcium, Total	108.		mg/l	0.100	0.0394	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Chromium, Total	0.00652		mg/l	0.00100	0.00017	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00330		mg/l	0.00050	0.00016	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Copper, Total	0.01809		mg/l	0.00100	0.00038	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Iron, Total	76.0		mg/l	0.0500	0.0191	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Lead, Total	0.01548		mg/l	0.00100	0.00034	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Magnesium, Total	26.9		mg/l	0.0700	0.0242	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Manganese, Total	3.368		mg/l	0.00100	0.00044	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Mercury, Total	0.00010	J	mg/l	0.00020	0.00009	1	04/14/22 20:30) 04/15/22 15:00	EPA 7470A	1,7470A	DMB
Nickel, Total	0.00475		mg/l	0.00200	0.00055	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Potassium, Total	7.60		mg/l	0.100	0.0309	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Sodium, Total	64.2		mg/l	0.100	0.0293	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Vanadium, Total	0.00711		mg/l	0.00500	0.00157	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV
Zinc, Total	0.03020		mg/l	0.01000	0.00341	1	04/14/22 18:02	2 04/18/22 19:08	EPA 3005A	1,6020B	SV



Project Name: ONE DUTCHESS Project Number: 9039
 Lab Number:
 L2216873

 Report Date:
 04/22/22

Method Blank Analysis Batch Quality Control

Parameter	Result Qu	alifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfiel	d Lab for sam	nple(s):	01-03 E	Batch: WO	G162730	8-1				
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Barium, Total	ND		mg/l	0.00050	0.00017	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Calcium, Total	ND		mg/l	0.100	0.0394	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Copper, Total	ND		mg/l	0.00100	0.00038	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Iron, Total	ND		mg/l	0.0500	0.0191	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Nickel, Total	ND		mg/l	0.00200	0.00055	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Potassium, Total	ND		mg/l	0.100	0.0309	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Sodium, Total	ND		mg/l	0.100	0.0293	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Thallium, Total	0.00014	J	mg/l	0.00100	0.00014	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	04/14/22 18:02	04/18/22 17:30	1,6020B	SV

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfiel	ld Lab for sample(s):	01-03 E	Batch: WC	G16273	09-1				
Mercury, Total	ND	mg/l	0.00020	0.00009) 1	04/14/22 20:30	04/15/22 14:19	1,7470A	DMB



Project Name: ONE DUTCHESS Project Number: 9039
 Lab Number:
 L2216873

 Report Date:
 04/22/22

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: L2216873 Report Date: 04/22/22

LCS LCSD %Recovery %Recovery Qual %Recovery Limits RPD **RPD Limits** Parameter Qual Qual Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1627308-2 Aluminum, Total 101 80-120 -Antimony, Total 82 80-120 --Arsenic, Total 80-120 97 --Barium, Total 80-120 98 --Beryllium, Total 98 80-120 --Cadmium, Total 99 80-120 --Calcium, Total 90 80-120 --Chromium, Total 80-120 98 --Cobalt, Total 80-120 92 --Copper, Total 92 80-120 --Iron, Total 103 80-120 --102 80-120 Lead. Total --Magnesium, Total 109 80-120 --Manganese, Total 80-120 97 -Nickel, Total 92 80-120 --Potassium, Total 105 80-120 --Selenium, Total 97 80-120 --Silver, Total 96 80-120 --Sodium, Total 102 80-120 --Thallium, Total 98 80-120 --Vanadium, Total 97 80-120 -



Lab Control Sample Analysis

Project Name:	ONE DUTCHESS	Batch Quality Control	Lab Number:	L2216873
Project Number:	9039		Report Date:	04/22/22

Parameter	LCS %Recovery	LCSD y %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated san	nple(s): 01-03 B	Batch: WG1627308-2			
Zinc, Total	93	· · · · ·	80-120	-	
Total Metals - Mansfield Lab Associated san	nple(s): 01-03 B	Batch: WG1627309-2			
Mercury, Total	99		80-120	-	



Matrix Spike Analysis Batch Quality Control

Project Name: ONE DUTCHESS

Project Number: 9039 Lab Number: L2216873

Report Date:

04/22/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD		RPD Limits
Total Metals - Mansfield	Lab Associated sam	nple(s): 01-03	QC Bat	ch ID: WG162	7308-3	WG1627308	-4 QC Sam	ple: L2	218565-01	Client	ID: MS	Sample
Aluminum, Total	0.249	2	2.14	94		2.14	94		75-125	0		20
Antimony, Total	0.00057J	0.5	0.3217	64	Q	0.3627	72	Q	75-125	12		20
Arsenic, Total	0.00186	0.12	0.1151	94		0.1107	91		75-125	4		20
Barium, Total	0.03150	2	1.896	93		1.921	94		75-125	1		20
Beryllium, Total	ND	0.05	0.04672	93		0.04713	94		75-125	1		20
Cadmium, Total	ND	0.053	0.05199	98		0.05131	97		75-125	1		20
Calcium, Total	17.0	10	26.5	95		25.9	89		75-125	2		20
Chromium, Total	0.00178	0.2	0.1874	93		0.1836	91		75-125	2		20
Cobalt, Total	0.00030J	0.5	0.4386	88		0.4363	87		75-125	1		20
Copper, Total	0.00102	0.25	0.2255	90		0.2160	86		75-125	4		20
Iron, Total	0.368	1	1.38	101		1.39	102		75-125	1		20
Lead, Total	0.00133	0.53	0.5256	99		0.5264	99		75-125	0		20
Magnesium, Total	4.59	10	15.0	104		14.7	101		75-125	2		20
Manganese, Total	0.00743	0.5	0.4667	92		0.4647	91		75-125	0		20
Nickel, Total	ND	0.5	0.4398	88		0.4289	86		75-125	3		20
Potassium, Total	7.42	10	17.6	102		17.4	100		75-125	1		20
Selenium, Total	ND	0.12	0.120	100		0.114	95		75-125	5		20
Silver, Total	ND	0.05	0.04641	93		0.04717	94		75-125	2		20
Sodium, Total	7.07	10	16.7	96		16.9	98		75-125	1		20
Thallium, Total	0.00017J	0.12	0.1164	97		0.1169	97		75-125	0		20
Vanadium, Total	0.00183J	0.5	0.4778	96		0.4612	92		75-125	4		20



Project Name: Project Number:	ONE DUTCHESS 9039				x Spike Analys ch Quality Control	Lab Number: Report Date:	L2216873 04/22/22
	Nativo	МС	MC	МС	MCD	 _	

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfi	ield Lab Associated san	nple(s): 01-03	QC Bate	ch ID: WG162730	08-3 WG162730	8-4 QC Sam	ple: L2218565-01	Client II	D: MS Sample
Zinc, Total	0.01636	0.5	0.4666	90	0.4608	89	75-125	1	20



Matrix Spike Analysis Batch Quality Control

Project Name: ONE DUTCHESS

Project Number: 9039 Lab Number: L2216873

Report Date:

04/22/22

otal Metals - Mansfield Lab Aluminum, Total Antimony, Total	0 Associated san 0.249 0.00057J 0.00186	2 0.5	QC Bat 2.14 0.3217	ch ID: WG162 94	7308-7	WG1627308	-8 QC Sam	ple: L2218490-01	Client I	D: MS Sample
Antimony, Total	0.00057J	0.5		94						. No cample
-			0.3217			2.14	94	75-125	0	20
	0.00186		0.0217	64	Q	0.3627	72	Q 75-125	12	20
Arsenic, Total		0.12	0.1151	94		0.1107	91	75-125	4	20
Barium, Total	0.03150	2	1.896	93		1.921	94	75-125	1	20
Beryllium, Total	ND	0.05	0.04672	93		0.04713	94	75-125	1	20
Cadmium, Total	ND	0.053	0.05199	98		0.05131	97	75-125	1	20
Calcium, Total	17.0	10	26.5	95		25.9	89	75-125	2	20
Chromium, Total	0.00178	0.2	0.1874	93		0.1836	91	75-125	2	20
Cobalt, Total	0.00030J	0.5	0.4386	88		0.4363	87	75-125	1	20
Copper, Total	0.00102	0.25	0.2255	90		0.2160	86	75-125	4	20
Iron, Total	0.368	1	1.38	101		1.39	102	75-125	1	20
Lead, Total	0.00133	0.53	0.5256	99		0.5264	99	75-125	0	20
Magnesium, Total	4.59	10	15.0	104		14.7	101	75-125	2	20
Manganese, Total	0.00743	0.5	0.4667	92		0.4647	91	75-125	0	20
Nickel, Total	ND	0.5	0.4398	88		0.4289	86	75-125	3	20
Potassium, Total	7.42	10	17.6	102		17.4	100	75-125	1	20
Selenium, Total	ND	0.12	0.120	100		0.114	95	75-125	5	20
Silver, Total	ND	0.05	0.04641	93		0.04717	94	75-125	2	20
Sodium, Total	7.07	10	16.7	96		16.9	98	75-125	1	20
Thallium, Total	0.00017J	0.12	0.1164	97		0.1169	97	75-125	0	20
Vanadium, Total	0.00183J	0.5	0.4778	96		0.4612	92	75-125	4	20



Matrix Spike Analysis

Project Name:	ONE DUTCHESS	Batch Quality Control	Lab Number:	L2216873
Project Number:	9039		Report Date:	04/22/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield L	_ab Associated sam	nple(s): 01-03	QC Bat	ch ID: WG1627308-7	7 WG162730	8-8 QC Sample	e: L2218490-01	Client ID	: MS Sample
Zinc, Total	0.01636	0.5	0.4666	90	0.4608	89	75-125	1	20
Total Metals - Mansfield L	_ab Associated sam	nple(s): 01-03	QC Bat	ch ID: WG1627309-3	B QC Samp	ole: L2219073-01	Client ID: MS	S Sample	
Mercury, Total	ND	0.005	0.00463	93	-	-	75-125	-	20



20

NC

mg/l

Project Name: Project Number:	ONE DUTCHESS 9039		Lab Duplicate Analysis Batch Quality Control				b Number: port Date:	L2210075
Parameter		Native Sample	Duplicat	e Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield	Lab Associated sample(s): 01-	03 QC Batch ID:	WG1627309-4	QC Sample:	L2219073-01	Client ID:	DUP Sam	ole

ND

ND

ANALYTICA	L

Mercury, Total

Project Name: ONE DUTCHESS Project Number: 9039

Serial_No:04222211:13 Lab Number: L2216873 *Report Date:* 04/22/22

Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

Cooler Information

Cooler	Custody Seal
A	Absent

Container Info	ormation	Initial	Final	Temp			Frozen		
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2216873-01A	Plastic 250ml HNO3 preserved	A	<2	<2	2.4	Y	Absent		FE-6020T(180),SE-6020T(180),TL- 6020T(180),BA-6020T(180),K-6020T(180),NI- 6020T(180),CA-6020T(180),CR- 6020T(180),ZN-6020T(180),CU- 6020T(180),NA-6020T(180),PB-6020T(180),BE- 6020T(180),MN-6020T(180),AS-6020T(180),V- 6020T(180),SB-6020T(180),AL- 6020T(180),MG-6020T(180),AG- 6020T(180),CD-6020T(180),HG-T(28),CO- 6020T(180)
L2216873-02A	Plastic 250ml HNO3 preserved	A	<2	<2	2.4	Υ	Absent		BA-6020T(180),SE-6020T(180),TL- 6020T(180),FE-6020T(180),NI-6020T(180),CA- 6020T(180),CR-6020T(180),K-6020T(180),ZN- 6020T(180),PB-6020T(180),NA- 6020T(180),PB-6020T(180),AS- 6020T(180),SB-6020T(180),X-6020T(180),AG- 6020T(180),HG-T(28),CD-6020T(180),MG- 6020T(180),AL-6020T(180),CO-6020T(180)
L2216873-03A	Plastic 250ml HNO3 preserved	A	<2	<2	2.4	Y	Absent		FE-6020T(180),BA-6020T(180),SE- 6020T(180),TL-6020T(180),K-6020T(180),CA- 6020T(180),CR-6020T(180),NI-6020T(180),NA- 6020T(180),ZN-6020T(180),CU-6020T(180),PB- 6020T(180),BE-6020T(180),MN- 6020T(180),SB-6020T(180),AS-6020T(180),V- 6020T(180),AG-6020T(180),AL- 6020T(180),MG-6020T(180),CD- 6020T(180),HG-T(28),CO-6020T(180)



Project Name: ONE DUTCHESS

Project Number: 9039

Lab Number: L2216873

Report Date: 04/22/22

GLOSSARY

Acronyms

Acronyins	
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	- Environmental Protection Agency.
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.
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.)
LOQ	- 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 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 only.)
MDL	- 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.
MS	- 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.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile 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.
RPD	- 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.
TEQ	- 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 DUTCHESS

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Lab Number: L2216873

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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.

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 Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. 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, Benz(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(a)+(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 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.

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.)

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.
- 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 concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the 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 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).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** 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 Identified Compounds (TICs).
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: ONE DUTCHESS

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Data Qualifiers

- 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.
- 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.)

Report Format: DU Report with 'J' Qualifiers



Project Name: ONE DUTCHESS Project Number: 9039
 Lab Number:
 L2216873

 Report Date:
 04/22/22

REFERENCES

1 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; <u>SCM</u>: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: <u>NPW:</u> Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine. **SM4500**: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: <u>NPW</u>: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187. 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 332: Perchlorate; 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 Kjeldahl-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 I, Endosulfan II.

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs **EPA 625.1**: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.

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.

	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Albany, NY 12205: 14 Walker W Tonawanda, NY 14150: 275 Coo	ay	5	Page of	1		te Rec'o n Lab	4/	1/6	22	ALPHA JOB #	873
Westborough, MA 01581 8 Walkup Dr.	Mansfield, MA 02048 320 Forbes Blvd	Project Information	A SALE	TIG TRAIL			Delivera	bles			1123	Billing Information	
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FAX: 508-898-9193	FAX: 508-822-3288	Project Location: 1 D	utchess	AVE			Z EC	QuIS (1 F	ile)] EQui	S (4 File)	PO#	
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ALPHA Lab ID			Colle	ection	Sample	Sampler's							t
(Lab Use Only)	S	ample ID	Date	Time	Matrix	Initials	TAL					Sample Specific Co	omments 😑
16873- 01	PR-MW-4		3/31/2022	9:15	GW	Speen	X						
0010 01	PR-MW-2		1	16:45		- Main	X						
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LOCATION				PR-MW-4		PR-MW-2	
SAMPLING DATE	1			3/31/2022		3/31/2022	\square
LAB SAMPLE ID	CasNum	NY-TOGS-GA	Units	L2216873-01		L2216873-02	\square
SAMPLE TYPE				WATER		WATER	Π
				Results	Q	Results	Q
Total Metals							Π
Aluminum, Total	7429-90-5	2000	ug/l	701		2180	
Antimony, Total	7440-36-0	6	ug/l	0.81	J	0.67	J
Arsenic, Total	7440-38-2	50	ug/l	36.08		118	
Barium, Total	7440-39-3	2000	ug/l	23.94		163.3	
Beryllium, Total	7440-41-7	3	ug/l	0.5	U	0.13	J
Cadmium, Total	7440-43-9	10	ug/l	0.2	U	0.09	J
Calcium, Total	7440-70-2		ug/l	31800		108000	
Chromium, Total	7440-47-3	100	ug/l	2.21		5.74	
Cobalt, Total	7440-48-4		ug/l	0.7		2.98	
Copper, Total	7440-50-8	1000	ug/l	8.23		15.3	
Iron, Total	7439-89-6	600	ug/l	2460		67900	
Lead, Total	7439-92-1	50	ug/l	3.37		13.19	
Magnesium, Total	7439-95-4	35000	ug/l	6280		26400	
Manganese, Total	7439-96-5	600	ug/l	549.4		3225	
Mercury, Total	7439-97-6	1.4	ug/l	0.2	U	0.2	U
Nickel, Total	7440-02-0	200	ug/l	1.15	J	4.14	
Potassium, Total	7440-09-7		ug/l	2280		7640	
Selenium, Total	7782-49-2	20	ug/l	5	U	5	U
Silver, Total	7440-22-4	100	ug/l	0.4	U	0.4	U
Sodium, Total	7440-23-5		ug/l	30300		64500	
Thallium, Total	7440-28-0	0.5	ug/l	1	U	1	U
Vanadium, Total	7440-62-2		ug/l	2.31	J	6.29	
Zinc, Total	7440-66-6	5000	ug/l	28.58		25.04	

Table 3.1 - Summary of Groundwater Analytical DataFormer AC Dutton Lumber Yard - NYSDEC 314081

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

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 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. 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. For NJ-Air-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 NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-Air-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.

Appendix C: Inspection Forms

INSPECTION CHECKLIST

FORMER AC DUTTON POUGHKEEPSIE , NEW YORK NYSDEC BCP No. C314081

SESI CONSULTING ENGINEERS

Inspection Date: 3.31.2022

COMPOSITE COVER SYSTEM

-	Is the integrity of the cover system in tact?	Yes <u>X</u> No
-	Do the maintenance records indicate any invasive subsurface work has been completed after the last inspection?	Yes No <u>_X</u> _
-	Has any soil been removed or imported from the Site since the last inspection?	Yes NoX_
-	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
-	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	

MONITORING 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 <u>X</u> No
-	Is the integrity of the flush-mount/stickup manhole covers And associated concrete pads intact?	Yes_X_ No_X_
-	Are the monitoring wells locked and the locks functioning?	Yes <u>X</u> No

Appendix D: NYSDEC- IC & EC Certification Form



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 Fo	ormer A.C. Dutton Lum	ber Yard			
Cit Co			Zip Code: 12601			
Re	porting Perio	od: April 01, 2021 to Ap	oril 01, 2022			
					YES	NO
1.	Is the infor	mation above correct?			X	
	If NO, inclu	ude handwritten above o	or on a separate sheet.			
2.		or all of the site propert nendment during this R	y been sold, subdivided, merged, eporting Period?	or undergone a		X
3.		been any change of use RR 375-1.11(d))?	e at the site during this Reporting I	Period		X
4.	•	ederal, state, and/or loc e property during this Re	cal permits (e.g., building, discharç eporting Period?	ge) been issued		X
			ns 2 thru 4, include documentat eviously submitted with this ce			
5.	Is the site	currently undergoing de	velopment?		X	
					Box 2	
					YES	NO
6.		ent site use consistent w Residential, Commercia	vith the use(s) listed below? al, and Industrial		X	
7.	Are all ICs	in place and functioning	g as designed?	X		
AC		DO NOT COMPLETE 1	R QUESTION 6 OR 7 IS NO, sign THE REST OF THIS FORM. Other st be submitted along with this fo	wise continue.		ues.
			C			
Sig	nature of Ov	vner, Remedial Party or [Designated Representative	Date		

		Box 2	Α
_		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.		
SITE	E NO. C314081	Во	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; The potential for vapor intrusion must be evaluated for any buildings developed on the site, and any potential impacts that are identified must be monitored or mitigated; All future activities on the property that will disturb remaining contaminated material must be conducted in addordance with the SMP; One Dutchess Phase 2, LLC 6062-59-766443 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; The potential for vapor intrusion must be evaluated for any buildings developed on the site, and any potential impacts that are identified must be monitored or mitigated; 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 Engineering Control** Parcel 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

cov inch buil	<u>Engineering Control</u> <u>Engineering Control</u> posure to remaining contamination at the site is prevented by a soil ver system placed over the site. This cover system is comprised of a minimum of 24 hes of clean soil. Asphalt pavement, concrete-covered sidewalks, and concrete lding slabs and two-feet of clean soil in landscaped areas will be part of the covers stem 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 dire reviewed by, the party making the Engineering Control certification; 	ction of,	and
	 b) to the best of my knowledge and belief, the work and conclusions described i are in accordance with the requirements of the site remedial program, and gene 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 following statements are true:	of the	
	(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 Deplace	oartmen	t;
	(b) nothing has occurred that would impair the ability of such Control, to protect the environment;	public h	ealth and
	(c) access to the site will continue to be provided to the Department, to evaluate remedy, including access to evaluate the continued maintenance of this Control;		
	(d) nothing has occurred that would constitute a violation or failure to comply wire Site Management Plan for this Control; and	th the	
	(e) if a financial assurance mechanism is required by the oversight document fo mechanism remains valid and sufficient for its intended purpose established in the		
		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.		
4	A Corrective Measures Work Plan must be submitted along with this form to address t	hese iss	JUES.
S	Signature of Owner, Remedial Party or Designated Representative Date		

L

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 statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 2 Penal Law.	at a false 10.45 of the
Peula O'Neill at 241 Hudson St. Hackens print name print business address	ack, NJ. 07601
am certifying as Owner or F	Remedial Party)
for the Site named in the Site Details Section of this form.	
Signature of Owner, Remedial Party, or Designated Representative Date	

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T

	EC CERTIFICATIO	NS	
Qualified E	Environmental Profe	essional Signature	Box 7
I certify that all information in Boxes 4 punishable as a Class "A" misdemean			
_I Fuad Dahan	_{at} SESI Consul	ting Engineers	,
print name	print b	usiness address	· · · · · · · · · · · · · · · · · · ·
am certifying as a Qualified Environme	ental Professional for	the (Owner or Ren	nedial Party)
Signature of Qualified Environmental F	Professional for	Stamp	5/26/2022 Date
the Owner or Remedial Party, Render		(Required for PE)	

T