

Basis of Design Report Perfection Plating Site (401037) Watervliet, Albany County, New York

Prepared for

New York State Department of Environmental Conservation 625 Broadway Albany, New York 12233



Prepared by

EA Engineering, P.C. and Its Affiliate EA Science and Technology 269 West Jefferson Street Syracuse, New York 13202 315-431-4610

> October 2020 Version: REVISED FINAL EA Project No. 16025.08



Basis of Design Report Perfection Plating Site (401037) Watervliet, Albany County, New York

Prepared for

New York State Department of Environmental Conservation 625 Broadway Albany, New York 12233



Prepared by

EA Engineering, P.C. and Its Affiliate EA Science and Technology 269 W. Jefferson Street Syracuse, New York 13202 315-431-4610

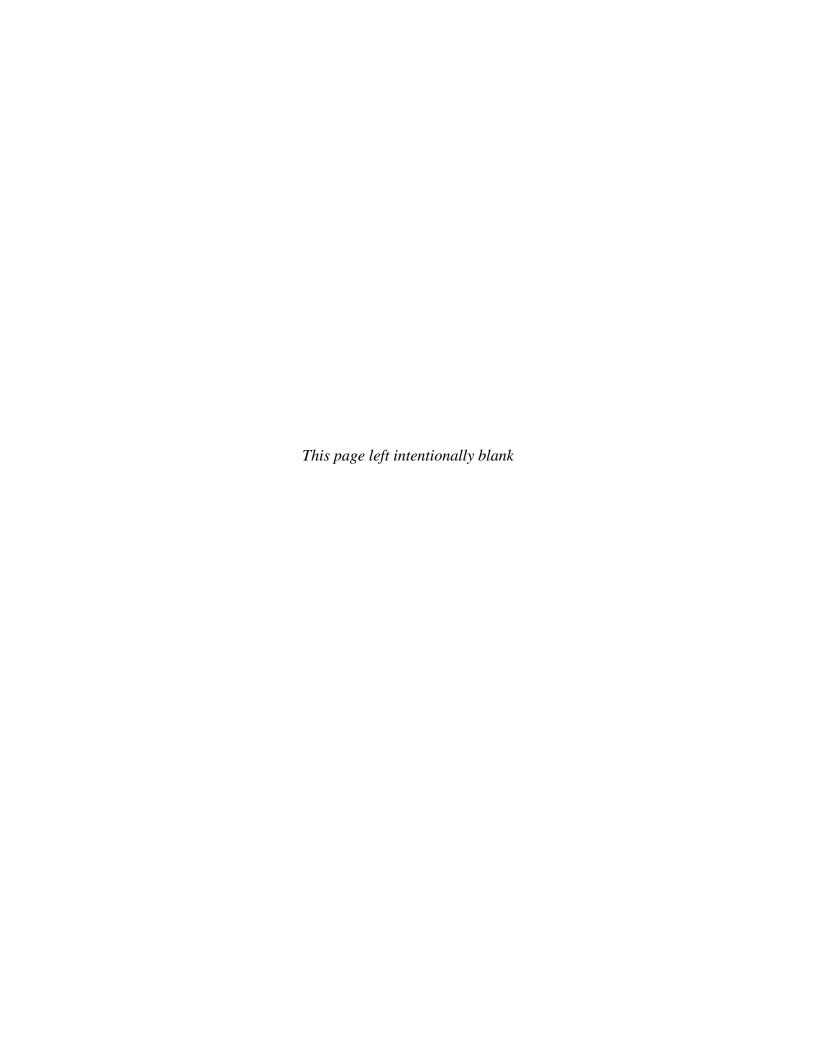
Emily Cummings, E.I.T. 23 October 2020

Project Manager, EA Science and Technology

23 October 2020

Donald Conan, P.E., P.G. Vice President, EA Engineering, P.C. Date

October 2020 Version: REVISED FINAL EA Project No. 16025.08



Page i
October 2020

TABLE OF CONTENTS

			<u>]</u>	Page
LIST	OF FIG	URES .		iii
LIST	OF TAE	BLES		iv
LIST	OF ACI	RONYN	AS AND ABBREVIATIONS	v
1.	INTRO	ODUCT	TION	1
2.	SITE I	DESCR	IPTION AND HISTORY	3
	2.1	SITE I	DESCRIPTION	3
	2.2		HISTORY	
	2.3		RECORD OF DECISION	
	2.4	GROU	INDWATER MONITORING	5
	2.5		CE AREA INVESTIGATION	
	2.6	AMEN	NDED RECORD OF DECISION	6
3.	PRE-I	DESIGN	I INVESTIGATION	9
	3.1	_	DING FLOOR SLAB AND INTERIOR/EXTERIOR WALL SAMPLING	
	3.2		DING INTERIOR SOIL SAMPLING	
	3.3		CT POLYCHLORINATED BIPHENYL SAMPLING	
	3.4	_	PMENT AND MATERIALS INVENTORY AND CHARACTERIZATI	
	3.5		STOS-CONTAINING MATERIAL SURVEY	
	3.6		HYSICAL SUBSURFACE SURVEY	
	3.7		SURVEY	
4.	DESIC	GN ASS	UMPTIONS	13
	4.1		RE AND EXTENT OF CONTAMINATION SUMMARY	
	4.2		DING AND SOIL TAKE OFF QUANTITIES	
	4.3	SPEC	FICATIONS	14
	4.4	DRAV	VINGS	16
	4.5	SITE I	MANAGEMENT PLAN UPDATE	16
	4.6		RONMENTAL EASEMENT	17
	4.7	APPL:	ICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS,	
		PERM	ITS, CODES, AND STANDARDS	17
		4.7.1	Applicable or Relevant and Appropriate Requirements	
		4.7.2	Codes and Standards	
		4.7.3	Permitting Plan/Permits	20

EA Project No.: 16025.08

EA Engineering, P.C. and Its Affiliate

EA Science and Technology

Version: REVISED FINAL Page ii October 2020

APPENDIX A: FIELD BOOK AND DAILY FIELD REPORTS

APPENDIX B: ANALYTICAL RESULTS APPENDIX C: PHOTOGRAPHIC LOG

APPENDIX D: ASBESTOS-CONTAINING MATERIAL SURVEY

APPENDIX E: GEOPHYSICAL SURVEY

APPENDIX F: SITE SURVEY

Page iii October 2020

LIST OF FIGURES

Number	<u>Title</u>			
1	Site Location Map			
2	Site Map			
3	Hexavalent Chromium June 2019 Overburden Isopleth Map			
4	Soil Boring and Sample Locations (April 2009)			
5	2009 Paint Chip Sampling Analytical Results and Remediation Area			
6	Pre-Design Investigation Sampling Locations			
7	Floor, Slab, and Interior/Exterior Wall Sampling Analytical Results			
8	Soil Sample Analytical Results			
9	Approximate Extent of Hexavalent Chromium-Impacted Building Material			
10	Approximate Extent of Hexavalent Chromium-Impacted Soil			

Page iv October 2020

LIST OF TABLES

<u>Number</u>	<u>Title</u>
1	Historical Hexavalent Chromium Overburden Groundwater Analytical Results
2	Historical Hexavalent Chromium Bedrock Groundwater Analytical Results
3	Paint Analytical Results
4	Preliminary Design Investigation 2014 Sample Collection Summary
5	Building Floor Slab and Interior/Exterior Wall Sampling Analytical Results
6	Building Interior Soil Sampling Analytical Results
7	Adhesive Sampling Analytical Results
8	Equipment and Materials Analytical Results

October 2020

ACM Asbestos-containing material

ARAR Applicable or relevant and appropriate requirements

AWQS Ambient Water Quality Standard

bgs Below ground surface

BOD Basis of Design

CFR Code of Federal Rules and Regulations

Cr(VI) Hexavalent chromium

DER Division of Environmental Remediation

EA Engineering, P.C. and Its Affiliate EA Science and Technology

LIST OF ACRONYMS AND ABBREVIATIONS

EEE Ecology and Environment Engineering, P.C.

FS Feasibility study ft Feet or foot

mg/kg Milligram(s) per kilogram mg/L Milligram(s) per liter

No. Number

NYCRR New York Codes, Rules, and Regulations

NYSDEC New York State Department of Environmental Conservation

PCB Polychlorinated biphenyl

PDI Preliminary design investigation

RI Remedial investigation ROD Record of Decision

SCO Soil Cleanup Objective

TCLP Toxicity Characteristic Leaching Procedure

UU Unrestricted Use

WA Work assignment

EA Project No.: 16025.08 Version: REVISED FINAL

EA Engineering, P.C. and Its Affiliate EA Science and Technology

Page vi October 2020

This page intentionally left blank

Page 1 October 2020

1. INTRODUCTION

The New York State Department of Environmental Conservation (NYSDEC) tasked EA Engineering, P.C. and its affiliate EA Science and Technology (EA) to perform a pre-design investigation (PDI), remedial design, and groundwater pilot study work plan at the Perfection Plating site (NYSDEC Site Number [No.] 401037) in the City of Watervliet, Albany County, New York (**Figure 1**). EA's work began under NYSDEC Work Assignment (WA) No. D007624 and continued to NYSDEC WA No. D009806-08. The PDI was performed to evaluate the distribution of contaminants within the former plating building and delineate the extent of impacted soil in the vicinity of the building. Additionally, an asbestos-containing material (ACM) survey, site survey, and subsurface utility evaluation were completed in July and August 2019.

The Record of Decision (ROD) (NYSDEC 1995)¹ required the reduction/elimination of contamination within onsite soils, and elimination of the potential for direct contact with contaminated materials associated with the Perfection Plating Building. Current soil and former plating building materials are continuing sources of site contamination, and EA recommended demolition and offsite disposal of the existing building along with excavation and offsite disposal of soil impacted with site contaminants. An Amended ROD (NYSDEC 2018)² was issued by NYSDEC in response to EA's recommendation amending the selected remedy as described in Section 2.6.

This Basis of Design (BOD) Report provides the foundation used to develop a contractor scope of work and specifications to execute the building demolition, soil excavation and offsite disposal of building/excavated materials. Planning documents for the remaining portions of the amended remedy are being prepared separately.

Additionally, the results of the PDI and ACM survey, as well as an overview of the planned full building demolition and soil removal activities are summarized in this BOD Report. Design assumptions that were used to prepare the Contractor scope of work, specifications, and design plans, as well as regulatory requirements for building demolition and soil removal activities (i.e., Applicable or Relevant and Appropriate Requirements [ARARs], Codes and Standards, and Plans/Permits) are included.

This BOD Report is organized as follows:

- Section 1—Introduction.
- Section 2—Site Description and History. This section provides a brief description of the site, its operational history, and the remedial action selected for the site as presented in the ROD (NYSDEC 1995).¹

¹ NYSDEC. 1995. Record of Decision, Perfection Plating, City of Watervliet, Albany County Site Number 401037. December

² NYSDEC. 2018. Amended Record of Decision. Perfection Plating, City of Watervliet, Albany County, Site Number 401037. May.

EA Project No.: 16025.08 Version: REVISED FINAL

EA Engineering, P.C. and Its Affiliate EA Science and Technology

Page 2 October 2020

- **Section 3**—PDI. This section presents the results of the PDI activities conducted by EA during 2014 and 2019.
- Section 4—Design Assumptions. This section presents the nature and extent of impacted soils and building materials, and the design assumptions to be used for preparation of design specifications (i.e., quantity take-offs and volume calculations for building demolition), design drawings, Site Management Plan, and the Environmental Easement. Regulatory requirements for the remedial action and a focused comparison to remedial alternatives are also included.

ersion: REVISED FINAL Page 3 October 2020

2. SITE DESCRIPTION AND HISTORY

The following section includes a brief description of the site, its operational history, and the remedial action selected for the site as presented in the ROD (NYSDEC 1995)¹.

2.1 SITE DESCRIPTION

The Perfection Plating site (Site) is an inactive plating facility located at 911 11th Street in the City of Watervliet, New York approximately 5 miles north of the City of Albany (**Figure 1**). The site covers 1.7 acres and is located in an urban area. The Site is bordered to the north and east by a residential area, to the south by commercial and residential properties, and to the west by the "Siberia Area" of the Watervliet Arsenal (**Figure 2**). The Perfection Plating site is currently classified as a "Class 4" site, defined as "Site properly closed – requires continued management."

2.2 SITE HISTORY

From 1965 to 1990, the site was used as a plating facility by three different owners as follows:

- Watervliet Plating, operating from 1965 to 1973, with the facility conducting chrome and nickel bumper plating.
- Perfection Plating, operating from 1974 to 1989, with the primary operation consisting of zinc and cadmium plating, and later changing to chrome and copper plating of brake parts.
- Pinnacle Plating, operating from 1989 to 1990, with the facility conducting copper and chromium plating with some zinc and cadmium plating. The facility was abandoned on 1 September 1990.

On 24 October 1989, a Consent Order was issued to the owners of Perfection Plating requiring submittal and implementation of a remedial investigation (RI)/feasibility study (FS). During operation of the facility, a significant leak in the chromic acid tank was noted. The tank was removed, and a new tank was installed adjacent to the former location. Chromic acid had apparently dissolved the concrete foundation beneath the tank. During Pinnacle Plating's operation, a second Consent Order was issued on 12 December 1989. The second Consent Order required a submittal of an application for an air contamination source permit, submittal of an industrial hazardous waste management plan, and construction of a fence to isolate the area on the west side of the former plating building. An industrial hazardous waste management plan was submitted by Pinnacle Plating later that month and the required fence was constructed. On 4 May 1990, in compliance with the Consent Order (File No. R4-0641-89-03), Perfection Plating submitted an RI/FS Work Plan prepared by Clough, Harbour, and Associates (1990)³. NYSDEC approved the Work Plan on 9 October 1990; however, the Work Plan was never implemented. The Bureau of Construction Services of NYSDEC's Division of Hazardous Waste Remediation requested an emergency removal action on 24 June 1991, which included emptying and disposal

_

³ Clough, Harbour, and Associates. 1990. Remedial Investigation/Feasibility Study Work Plan. May.

Page 4 October 2020

of the plating and rinse tanks, as well as removing and disposing of at least six drums of plating waste stored in the warehouse. On 26 June 1991, NYSDEC sent a certified letter to Perfection Plating's consultant requesting the removal of the above-mentioned waste. Due to lack of response, an emergency removal action was performed by Clean Harbors under contract to NYSDEC in late 1991 and early 1992.

Ecology and Environment Engineering, P.C. (EEE) completed an RI of the site and prepared an FS in 1992 (EEE 1994)⁴. In August 1994, the final RI was completed; the final FS was completed in August 1995. Based on the FS, the ROD was issued in December 1995 (NYSDEC 1995)¹.

2.3 1995 RECORD OF DECISION

The ROD issued in December 1995¹ identified the following specific remedial goals for the remedial action at the Perfection Plating site:

- Reduce, control, or eliminate the contamination present within the onsite soils to levels that are protective of groundwater resources
- Eliminate the potential for direct contact with impacted soils onsite and miscellaneous contaminated materials within the former plating building
- Prevent, to the extent possible, migration of contaminants from the site to groundwater
- Mitigate the impacts of contaminated groundwater to the environment
- Provide for attainment of standards, criteria, and guidance for groundwater quality at the limits of the area of concern.

The selected remedy in the ROD (NYSDEC 1995)¹ called for the following:

- Excavation of contaminated soils and offsite disposal
- Construction of a groundwater cutoff trench to intercept and collect the plume-contaminated groundwater
- Operation and maintenance of a groundwater treatment system onsite
- Discharge of treated wastewater to a local storm drain.

4

⁴ EEE. 1994. Final Phase I Remedial Investigation Report. Perfection Plating Site, Watervliet, New York. Volumes I and II. August.

EA Project No.: 16025.08 Version: REVISED FINAL

EA Engineering, P.C. and Its Affiliate EA Science and Technology

Page 5 October 2020

A limited soil remediation was conducted in 1995, with localized excavation of soil from beneath the former plating building slab. Philip Service Corporation initiated construction of the groundwater treatment system in December 1997 and completed construction in June 1998. The treatment system included installation of a downgradient collection trench and collection system to remediate site groundwater (**Figure 2**). EEE submitted a Post-Remediation Operation and Maintenance Manual to NYSDEC in October 1998⁵. After the conclusion of the demonstration period, the groundwater treatment system was turned over to NYSDEC for operation. In March 2000, the site was reclassified from Class 2 to Class 4 in the Registry as a result of completion of remediation in accordance with the ROD.¹

A remediation program was implemented to include weekly maintenance of the treatment system including monitoring the mass of contaminants recovered in groundwater from the interceptor trench and determining the removal efficiency of the treatment system (i.e., by collecting monthly system influent and effluent samples).

2.4 GROUNDWATER MONITORING

A component of the ROD¹ called for the institution of a long-term monitoring program. One groundwater sampling event was completed by NYSDEC in December 2002 and the subsequent long-term monitoring program was implemented in May 2003, with monitoring conducted at 12 monitoring wells (8 overburden and 4 bedrock wells) to monitor plume migration and demonstrate the effectiveness of the groundwater remediation system (**Figure 2**). Groundwater monitoring was performed on a five-quarter basis (every 15 months) to capture seasonal changes in groundwater elevation, with 17 groundwater sampling events completed from May 2003 to June 2013 (**Tables 1 and 2**). During the June 2013 sampling event, hexavalent chromium (Cr[VI]) was detected downgradient of the collection trench, with the concentration in overburden monitoring well MW-EA-8 (0.15 milligrams per liter [mg/L]) exceeding the NYSDEC Class GA Ambient Water Quality Standards and Guidance Value (AWQS) of 0.05 mg/L. Confirmatory sampling was conducted in August 2013, with Cr(VI) detected above the AWQS at MW-EA-8 (3.2 mg/L).

A quarterly overburden groundwater sampling program was initiated in October 2013 to assist in monitoring the effectiveness of the collection trench and to monitor the rate of advancement and migration direction of the plume. In April 2014, 3 additional overburden groundwater monitoring wells were installed and incorporated into the quarterly groundwater sampling events. To date, samples are collected from 10 overburden groundwater monitoring wells under the ongoing quarterly sampling program, and from 3 bedrock monitoring wells on an annual basis.

Historic analytical data from quarterly sampling events show Cr(VI) concentrations frequently exceeding the AWQS in groundwater monitoring well MW-EA-11, located downgradient of the collection trench, which indicates that a portion of the groundwater flow was bypassing the trench. The size of the Cr(VI) groundwater plume where concentrations exceeded the AWQS was approximately 312 feet (ft) long \times 90 ft wide in July 2019 (**Figure 3**). Based on a comparison to

-

⁵ EEE. 1998. Post-Remediation Operation and Maintenance Manual. October.

Page 6 October 2020

the historical data, the size of the plume has not decreased over time and the Cr(VI) concentration at MW-EE-5S has remained relatively consistent since 2008.

2.5 SOURCE AREA INVESTIGATION

The groundwater treatment system is designed to contain the migration of water impacted with Cr(VI). As such, the groundwater treatment system does not have an effect on concentrations of Cr(VI) within the source area. The concentrations of Cr(VI) in the source area have remained the same order of magnitude from May 2003 to present.

Impacted soil from beneath the former plating building slab had been previously removed along with the underground storage tank in 1995. A visual inspection of the former tank excavation area showed evidence that contamination had leached upward through the backfill material. As a result, soil sampling was conducted in April 2009 to delineate the extent of the remaining impacted soil.

Cr(VI) concentrations in surface and subsurface soil collected from the former tank excavation area exceeded the NYSDEC Part 375 Unrestricted Use (UU) Soil Cleanup Objective (SCO) of 1 milligram per kilogram (mg/kg), with concentrations of 4,600 and 4.2 mg/kg, respectively (**Figure 4**). Subslab soil samples collected approximately 40 ft north and 70 ft south of the tank excavation area did not reveal concentrations above the laboratory detection limit. Subsurface soil samples were also collected from outside the building footprint, with Cr(VI) exceeding the UU SCO in two locations: SB-02 at 10.8 mg/kg and SB-07 at 1.8 mg/kg.

During the soil sampling event in 2009, evidence of Cr(VI) on the building paint was noted. As a result, paint chip samples were collected and the presence of Cr(VI) was confirmed. Follow-up sampling events in November and December 2009 were completed to evaluate conditions of the former plating building. A total of 12 suspected impacted paint chip samples and 2 background samples were collected throughout the sampling events, with suspected impacted paint chip samples collected from the west-facing outside wall of the building near where the exhaust fans are located. Cr(VI) concentrations were detected in 9 samples, with concentrations ranging from 15.9 mg/kg (PS-5 collected in November 2009) to 656 mg/kg (SS-3 collected in November 2009) (**Table 3**). Analytical results identified a 260-square ft area of Cr(VI)-impacted paint on the west-facing outer wall of the building (330 square ft including window area) (**Figure 5**).

2.6 AMENDED RECORD OF DECISION

Based on elevated analytical results of soil and paint chip samples from 2009, elevated chromium Toxicity Characteristic Leaching Procedure (TCLP) results in the building materials samples from 2014, and long-term groundwater samples, it is believed that deterioration of the building envelope coupled with the presence of significant contamination of building materials and underlying soil are resulting in a continued source of groundwater contamination; therefore, the remedial action objectives presented in the ROD (NYSDEC 1995)¹ are not being achieved. Demolition of the building has been proposed to remove contaminated building material and facilitate removal of impacted soil from under the building.

An Amended ROD issued in May 2018 maintained the same remedial goals as the original ROD and identified an amended remedy to achieve those goals. The amended remedy called for the following:

- 1. Continued operation, maintenance, and monitoring of the collection trench and treatment system
- 2. The former metal-plating building will be demolished, characterized, and appropriately disposed.
- 3. The underlying source of contamination, and any contamination in soils adjacent to the building, will be excavated, characterized, and appropriately disposed.
- 4. A sodium lactate solution or other geochemical fixation agent will be injected to treat the hexavalent chromium in situ.
- 5. Implementation of institutional controls in form of restricting groundwater use and restricting land use to commercial/industrial use
- 6. A long-term monitoring program including the development of a Site Management Plan to continue appropriate site monitoring and institutional controls/engineering controls at the site.

Plans, specifications, and scope of work for Items No. 2 and 3 (building demolition and soil removal) will be prepared separately by EA based upon this BOD report.

EA Project No.: 16025.08 Version: REVISED FINAL Page 8 October 2020

EA Engineering, P.C. and Its Affiliate EA Science and Technology

This page left intentionally blank

Page 9 October 2020

3. PRE-DESIGN INVESTIGATION

A PDI was implemented in August 2014 to further evaluate the condition of the former plating building, and further characterize the extent of soil contamination in the former tank excavation area and beneath the remainder of the building in order to refine the cost estimate for building demolition. These data will be incorporated into the Contract Documents and will be used to construct bid items and estimated quantities. Activities conducted as part of the 2014 PDI included:

- Sampling of building floor slab and interior/exterior walls
- Sampling of building interior soil
- Collection of representative polychlorinated biphenyl (PCB) samples from adhesives
- Inventory of building equipment
- Wipe sampling of building equipment (to determine presence of Cr[VI]).

Characterization was focused on identifying the extent of Cr(VI)-impacted material in onsite soils and within the building. TCLP analyses were also performed to determine if building materials will need to be managed as characteristically hazardous waste. A summary of samples collected during the PDI is provided in **Table 4**. Sampling locations are depicted in **Figure 6**. A copy of the field book is included in **Appendix A**.

All samples were analyzed by Hampton-Clarke Laboratories of Fairfield, New Jersey, a National Environmental Laboratory Accreditation Conference-Certified Analytical laboratory. Results are provided in **Appendix B**.

In July and August 2019, additional work was completed in support of the PDI and included an ACM survey, site survey, and geophysical survey.

3.1 BUILDING FLOOR SLAB AND INTERIOR/EXTERIOR WALL SAMPLING

A total of 15 bulk concrete samples were collected from the former plating building floor slab (4 samples), interior walls (10 samples), and exterior walls (1 sample) for analysis of Cr(VI), TCLP metals, and total cyanide (**Figure 6**). The building was demarcated using a grid pattern and sample locations were selected based on visible staining and/or operational knowledge of the facility (i.e., visible yellow staining on block walls and probable Cr[VI] impacts to concrete slab adjacent to tank area).

A summary of the analytical results is presented **Table 5**, and detected analytes are depicted on **Figure 7**. Cr(VI) was detected in 13 of the 15 samples (from 1.4 to 940 mg/kg), with concentrations in all 13 samples detected above the UU SCO (1 mg/kg) and concentrations in 4 samples detected above the NYSDEC Residential SCO (22 mg/kg). TCLP chromium concentrations from four locations were detected at concentrations greater than the 40 Code of Federal Regulations (CFR) 261.21 regulations for toxicity (50 mg/kg).

Page 10 October 2020

Cyanide was detected in 1 sample collected from the concrete floor in grid location A8 at a concentration (67 mg/kg) greater than the NYSDEC UU and residential SCO (27 mg/kg). Low concentrations of cyanide ranging from 0.67 to 20 mg/kg, which are less than the UU SCO, were detected in the remaining 13 samples.

3.2 BUILDING INTERIOR SOIL SAMPLING

Soil sampling was conducted within the former plating building to estimate/refine the quantity of impacted soil. Samples were collected from two borings (PDI-SB-01 at 0–1 and 4–5 ft below ground surface [bgs], and PDI-SB-02 at 0–1 and 3–4 ft bgs), beneath two sump locations (PDI-north sump and PDI-south sump), and the tank excavation area (**Figure 6**). Soil boring logs are included in **Appendix A**. All samples were submitted for Cr(VI) analysis. A sample from the tank excavation area was also submitted for TCLP analysis.

A summary of the analytical results is presented in **Table 6**, and detected analytes are depicted on **Figure 8**. Cr(VI) was detected above the NYSDEC UU (1 mg/kg) in 6 of 7 samples, with concentrations ranging from 2.7 mg/kg in shallow soil immediately beneath the slab at location PDI-SB-02 to 370 mg/kg in tank excavation soil. The concentrations in 3 samples were also above NYSDEC Residential Use SCO (22 mg/kg), including deep soil at PDI-SB-1 (4–5 ft bgs, 19 mg/kg), the north sump (32 mg/kg), and the tank excavation area (370 mg/kg).

Chromium was the only TCLP metal detected in tank excavation soil, with a concentration of 13 mg/L exceeding the 40 CFR 261.21 regulations for toxicity (1.0 mg/L).

3.3 SELECT POLYCHLORINATED BIPHENYL SAMPLING

During sampling activities, EA identified building materials that could potentially contain PCBs. Samples were collected from five locations, including 2 paint samples from a structural steel frame used to support a gantry crane system, 2 samples from concrete slab expansion joints, and 1 sample from window caulk.

Analytical results were compared to the NYSDEC SCOs and are presented in **Table 7**. The expansion joint samples had detections of Aroclor-1242 and Aroclor-1260 at concentrations greater than the NYSDEC Residential, Restricted-Residential, and Commercial SCOs for PCBs (1 mg/kg each). Sample results from the paint steel and window caulk did not exceed the SCOs for PCBs. Concentrations for all PCB samples collected were less than 50 mg/kg.

3.4 EQUIPMENT AND MATERIALS INVENTORY AND CHARACTERIZATION

An equipment inventory (including photo documentation) was completed on 21 pieces of equipment inside the former plating building that were believed to be associated with the former plating activities. A photo documentation log is provided in **Appendix C**. Wipe samples were collected from equipment/materials included in the inventory and analyzed for Cr(VI) to evaluate recycle/disposal options. Analytical results are included in **Table 8**. Cr(VI) was detected on 14 of 21 pieces of equipment/material, with concentrations ranging from 0.0014 to 0.74 mg/L.

October 2020

3.5 ASBESTOS-CONTAINING MATERIAL SURVEY

In August 2019, an ACM survey was completed by Hanson VanVleet, PLLC as a subcontractor to NYSDEC call-out contactor Aztech Environmental Technologies, Inc. to evaluate building materials for the presence of asbestos. The complete ACM Survey Report is provided as **Appendix D**.

Eighteen samples of six types of suspected ACM were collected for analysis for possible asbestos content. Based on the size of each area, type of construction, and observations, at least 3 samples of each type of suspect material were collected. Materials are identified as ACM if they are found to contain more than 1 percent asbestos fibers by volume. The results of the asbestos survey identified the following materials as ACM:

- Approximately 300 square ft of vinyl floor tile in the office
- Approximately 300 square ft of vinyl floor tile mastic in the office
- Approximately 1,500 square ft of roofing tar at membrane edges and overlaps
- Approximately 6,400 square ft of silver paint on the membrane roofing.

All ACM identified will require abatement by a licensed asbestos abatement contractor in accordance with 12 New York Codes, Rules, and Regulations (NYCRR) Part 56 (Code Rule 56) prior to any disturbance of the materials or demolition of the structure.

3.6 GEOPHYSICAL SUBSURFACE SURVEY

On 15 July 2019, a subsurface geophysical survey was completed by New York Leak Detection of Jamesville, New York. The complete geophysical survey report is included as **Appendix E**. The survey was completed to identify potential subsurface utilities, structures, or other anomalies in the area that would present hazards during a building demolition and site excavation. A visual inspection was performed in the area of concern to assess for utility structures. Following the visual inspection, geophysical equipment, including an RD8000 cable locator, a sonde locatable rodder, and a Noggin ground penetrating radar were used to evaluate subsurface conditions. The equipment was used in combination with various other geophysical tools for the most accurate verification of known/unknown utilities and/or structures. High voltage and communication lines ran overhead from the existing utility pole. Utilities observed were painted in appropriate color and marked with flags and paint.

3.7 SITE SURVEY

A complete site survey, including topography, vegetation, site structures, utilities, and property boundaries, was completed on 28 August 2019 by MJ Engineering and Land Surveying, P.C., of Clifton Park, New York. The site survey is provided in **Appendix F**.

EA Project No.: 16025.08 Version: REVISED FINAL Page 12 October 2020

EA Engineering, P.C. and Its Affiliate EA Science and Technology

This page left intentionally blank

Page 13 October 2020

4. DESIGN ASSUMPTIONS

The PDI was performed to evaluate the condition of the former plating building and further characterize the extent of contamination in order to develop Contract Documents for building demolition.

4.1 NATURE AND EXTENT OF CONTAMINATION SUMMARY

The results of the PDI indicate elevated Cr(VI) concentrations within the former plating building, including the surface of the interior and exterior block wall and concrete floor, in subsurface soil, and on former plating equipment contained within the building. In addition, elevated TCLP chromium concentrations were detected within soil from the former tank excavation area, in concrete on the wall and floor adjacent to the tank excavation area, and on the exterior west-facing block wall in the area near to where previous paint chip samples were collected. The approximate area of Cr(VI) impacts to building materials is depicted on **Figure 9**. The approximate area of impacted soil beneath the building is depicted on **Figure 10**.

4.2 BUILDING AND SOIL TAKE OFF QUANTITIES

Full building demolition is recommended to remove the chromium-contaminated building and to access contaminated sub slab soil requiring removal. Building materials were identified in the PDI as both non-hazardous and hazardous waste. Final waste characterization will be required under the future Contract Documents and will be used to determine final destination and quantities for building materials. Equipment within the building contaminated with Cr(VI) may require additional characterization to determine final disposition. The estimated building quantities are summarized in the following table.

Building Materials and Estimated Quantities

	Width	Height	Length	Cubic		Specific Weight
Material	(ft)	(ft)	(ft)	Yards	Tons	(tons/cubic yards)
Cinder Block Wall	1	12.5	456	211	253	1.2
Concrete Slab	28	0.66	200	137	274	2
Building footer	2	4	456	135	270	2
Concrete loading dock	31	0.5	21	12	24	2
Pre-Cast Roof	35	0.5	200	130	156	1.2
			TOTAL	625	977	

The four sample locations where TCLP chromium concentrations were detected at concentrations greater than the 40 CFR 261.21 regulatory level for toxicity (5 mg/kg) are located in the plating process room. The plating process room amounts to approximately 60 percent of the building materials. Thus, EA estimates that up to 572 of the 977 tons of the building material would be required to be disposed of as hazardous waste. It is assumed the remaining 405 tons would be disposed of as non-hazardous waste.

Following completion of building demolition, impacted soil beneath the slab would be excavated. Further waste classification would need to be conducted on excavated soil to refine the volumes

Page 14 October 2020

of hazardous versus non-hazardous soil for disposal. Certified clean fill material would be utilized to backfill the limits of the excavation after removal of impacted soils. All backfill materials would be sufficiently compacted within the limits of the excavation. Calculations for estimated soil removal are summarized in the following table.

Estimated Quantities of Soil

Material	Area (square ft)	Depth (ft)	Volume (cubic yards)	Weight (tons)
Soil (Non-Hazardous)	3,318	7	860	1,376
Soil (Hazardous)	400	7	104	166

NOTES: Weight in tons assumes density of 1.6 tons per cubic yard Non-hazardous soil is defined as soil with TCLP results with concentrations of chromium less than 5 mg/kg.

Hazardous soil is defined as TCLP results with concentrations of chromium greater than 5 mg/kg.

The PCB presence onsite is specific to the expansion joint caulk and is classified as a bulk product waste. As a result of being a bulk product waste, it can be disposed of with building material identified as hazardous waste. Additionally, the approximate 300 square ft of vinyl floor tile and mastic identified as ACM will be segregated and disposed of as ACM waste. The remaining building materials, such as roofing materials, will be disposed of with the building material identified as hazardous waste.

The equipment identified as being associated with the former plating activities has been inventoried and Contract Documents will have provisions for characterization and disposal. The analytical results will be included in the limited site data documents, and the contractor will be required to develop a work plan proposing methodology for characterization and disposal or recycling.

4.3 SPECIFICATIONS

A contractor scope of work will be developed for the full demolition of the former plating building and remediation of impacted soil to be implemented by a NYSDEC Call-out Contractor. Specifications in the Scope of Work will address, but are not limited to, the following components of the project:

- Access Roads—Access roads would be required to be adequately maintained throughout the course of remedial activities. Additional access roads may need to be installed, or existing roads widened to allow heavy machinery to enter and exit the site. Access roads would be designed to handle expected load during the remedial action.
- Characterization/Confirmation Sampling—Sampling will be conducted prior to soil
 excavation to satisfy disposal requirements and confirm the limits of excavation.
 Contaminated building materials, as delineated during prior sampling efforts, would be
 handled as hazardous waste and sent to a Resource Conservation and Recovery Act-

EA Project No.: 16025.08 Version: REVISED FINAL

EA Engineering, P.C. and Its Affiliate EA Science and Technology

Page 15 October 2020

regulated facility for disposal. Non-contaminated building materials (i.e., cinder block and foundation concrete rubble) would be handled as non-hazardous waste.

- Soil Removal and Earthwork—Contaminated soil would be removed using an excavator or other equipment. Excavation of the impacted materials would be completed in accordance with design documents including amount of material removed, staging location, and other requirements to be identified in the Scope of Work.
- *Erosion and Sedimentation Control*—Erosion control would be required around the perimeter of the work area and soil stockpile areas to prevent contaminant migration. At the completion of the remedial work, ditches would be backfilled, and the ground surface restored to original conditions.
- Underground Storage Tank Removal—Two underground storage tanks embedded in a loading dock located on the northeast side of the plating building would be removed. Any additional underground storage tanks that may be encountered during excavation of contaminated soils would also need to be removed. All liquids and residue, if any, would be removed from the tanks and lines before closing or removing the tanks. All piping and conduit that are accessible and uncovered would be removed, except the vent line. Once the tanks are removed from the ground, they would be loaded onto a trailer and hauled to a certified salvage dump for disposal. The tank excavation would be backfilled with certified clean fill material.
- **Dewatering**—The anticipated depth of soil excavation would range from 8 to 10 ft bgs. Groundwater is located from approximately 5 to 10 ft bgs and is anticipated to be encountered during soil excavation. As presented in previous groundwater sampling events, groundwater at the site contains Cr(VI) in excess of the NYSDEC AWQS. A plan for managing construction water would be necessary, with water being conveyed and stored in an onsite frac tank for offsite disposal.
- Ambient Air Monitoring—During building demolition and soil excavation, an ambient air monitoring program would be implemented to measure the concentration of particulates and volatile organic compounds in ambient air in the work zone and at the perimeter of the site. Real time volatile organic compound concentrations in ambient air would be measured using a photoionization detector equipped instrument. Real time metals concentrations in ambient air would be estimated using particulate concentrations correlated to metals concentrations. A Community Air Monitoring Plan that specifies the components of this program would be developed in accordance with the New York State Department of Health Generic Community Air Monitoring Plan contained in Appendix 1A of the NYSDEC Final Division of Environmental Remediation (DER)-10 Technical Guidance for Remediation (NYSDEC 2010)⁶.

Perfection Plating Site (401037) Watervliet, New York

⁶ NYSDEC. 2010. Division of Environmental Remediation-10. Technical Guidance for Site Investigation and Remediation. May.

EA Project No.: 16025.08 Version: REVISED FINAL

EA Engineering, P.C. and Its Affiliate EA Science and Technology

Page 16 October 2020

• Waste Disposal—All hazardous and non-hazardous waste items, including building materials (concrete, steel, etc.), equipment and materials contained within the building, and excavated soil would be disposed of properly at appropriate disposal facilities. Disposal of hazardous waste materials at regulated landfills would be determined by TCLP limits and facility-specific waste characterization requirements. Larger pieces of equipment within the building (i.e., electric motors, fork lift, larger tanks, and drums) would need to be managed individually due to contamination. Non-contaminated building materials (i.e., cinder block and foundation concrete rubble) and soil would be disposed of as non-hazardous waste. Materials left onsite are required to meet TCLP chromium criteria and NYSDEC AWQS for chromium (50 micrograms per liter). Smaller hand tools and equipment within the building may be able to be recycled/disposed of with building materials.

• **Site Restoration**—Certified clean fill material would be utilized to fill the excavated soil areas. All fill materials would be sufficiently compacted within the limits of the excavation.

4.4 DRAWINGS

Drawings included in the design are likely to include, but are not limited to, the following:

- Cover sheet
- Existing conditions, legend, general notes, and abbreviations
- Building elevation and plan views
- Presentation of analytical data
- Soil excavation plan
- Grading and restoration plans
- Site restoration details.

4.5 SITE MANAGEMENT PLAN UPDATE

As part of the remedial action, EA will update the Site Management Plan under WA No. D009806-13 to include the following activities:

- Management of the site to restrict excavation; excavated soil would be tested, properly handled to protect the health and safety of workers and the nearby community, and properly managed in a manner acceptable to NYSDEC
- Identification of any use restrictions onsite
- Evaluation of the existing groundwater treatment system and possible remedial system optimization
- Continued groundwater monitoring

Page 17 October 2020

• Provisions for the continued proper operation and maintenance of the components of the groundwater treatment system.

This plan would be updated following completion of the remedial construction.

4.6 ENVIRONMENTAL EASEMENT

Additionally, EA would assist NYSDEC in preparing an Environmental Easement for the Perfection Plating site. The easement would have five exhibits:

- **Schedule A**—An adequate legal description of the property subject to the environmental easement.
- **Schedule B**—The American Land Title Association/American Congress on Surveying and Mapping survey.
- **Schedule C**—A narrative description of the impacted areas and institutional and/or engineering controls; and the monitoring/inspection, maintenance, and reporting requirements.
- **Schedule D**—Maps/diagrams of as-built controls.
- Schedule E—A clean, legible copy of the U.S. Geological Survey Quadrangle map.

The Environmental Easement would be prepared in conjunction with the remedial action and amended as needed following completion of the remedial construction and initiation of the Site Management Plan.

4.7 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS, PERMITS, CODES, AND STANDARDS

4.7.1 Applicable or Relevant and Appropriate Requirements

ARARs were developed and evaluated with regard to the remedy selected in the ROD (NYSDEC 1995)¹. Design of the remedy will incorporate the appropriate engineering and monitoring controls to ensure compliance with ARARs.

Below is a list of ARARs that would potentially be required during the Perfection Plating site remedial design.

Page 18 October 2020

Potentially Applicable Requirements

Potentially Applicable Requirements					
Requirement	Rationale				
FEDERAL					
Clean Water Act National Pollutant Discharge Elimination System (40 CFR Part 122) Establishes permitting requirements, technology-based limitations and standards, control of toxic pollutants, and monitoring of effluents to	Applicable if groundwater will be extracted from the ground and discharged.				
assure discharge permit conditions and limits are not exceeded. Safe Drinking Water Act (National Primary and Secondary Drinking Water Regulations) (42 U.S. Code 300f, 40 CFR Part 141, 40 CFR Part 143) Provides a national framework to ensure the quality and safety of	The removal action is being conducted to reduce chemical concentrations in soil and groundwater, with a goal of meeting cleanup levels at the property				
drinking water. The primary standards establish maximum contaminant levels and maximum contaminant level goals for chemical constituents in drinking water. Secondary standards pertain primarily to the aesthetic qualities of drinking water. Clean Air Act, as Amended (42 U.S. Code 7401)	boundary. The Clean Air Act will be required if				
Is a comprehensive law that is designed to regulate any activities that affect air quality and provides the national framework for controlling air pollution. The National Primary and Secondary Ambient Air Quality Standards (40 CFR Part 50) set standards for ambient pollutants that are regulated within a region. The National Emissions Standards for Hazardous Air Pollutants (40 CFR Part 61) establishes numerical standards for hazardous air pollutants.	any remediation alternatives produce air emissions.				
Comprehensive Environmental Response, Compensation, and Liability Act Provides regulations for government intervention in cleanup actions at abandoned waste sites for the protection of public health.	This Act establishes basis for government sponsored cleanup of abandoned hazardous waste sites.				
Superfund Amendments and Reauthorization Act Establishes standards that govern the degree of cleanup required at a site. Superfund Amendments and Reauthorization Act mandates that remedies must meet federal and/or state ARARs. State ARARs can take precedent over federal ARARs providing that the state requirements are promulgates and are more stringent than the federal requirements.	All site criteria for cleanup will be applied to New York State guidelines as promulgated by Superfund Amendments and Reauthorization Act.				
Resource Conservation and Recovery Act Provides the governing regulations for owners and operators of hazardous waste treatment, storage, and disposal facilities; and for the generators and transporters of hazardous waste. Occupational Safety and Health Administration (29 CFR 1910)	All waste generated during the removal action will be characterized and handled per Resource Conservation and Recovery Act regulations. Site activities will be conducted under				
Establishes the worker health and safety requirements for operations at hazardous waste sites. Rules for Transport of Hazardous Waste (49 CFR 107, 171) Establishes requirements for packaging, handling, and manifesting hazardous waste.	appropriate Occupational Safety and Health Administration standards. Any hazardous waste generated during site activities will be characterized as needed to determine packaging, handling, and transport requirements.				

Page 19 October 2020

Potentially Applicable Requirements

Requirement	Rationale
STATE	
Water Quality Regulations for Surface Waters and Groundwater (6 NYCRR Part 700-705) Provides standards, regulations, and guidelines for the protection of waters within the state.	Site cleanup will be conducted in accordance with 6 NYCRR Part 700-705
Waste Transporter Permits (NYCRR Part 364) Provides standards and regulations for waste transporters. New York State Department of Transportation Rules for Hazardous Materials Transport (49 CFR, Parts 107, 171.1-500) Addresses requirements for marking, manifesting, handling, and transport of hazardous materials; applicable if offsite treatment or disposal of wastes is required.	These regulations will be followed for offsite disposal of hazardous waste.
Air Quality Standards (6 NYCRR Part 257) Air quality standards are designed to provide protection from the adverse health effects of air contamination; and they are intended further to protect and conserve the natural resources and environment.	All substantive requirements of the State air pollution control regulations will be followed during implementation of the remedial action.

4.7.2 Codes and Standards

Codes and standards would be followed. Based on the type of work performed, codes and standards that would apply consist of:

- National Fire Protection Association standards (storing flammable materials)
- National Electrical Code
- ASTM International (compaction testing, sieve testing, soil moisture content determinations, and other construction-related test methods)
- U.S. Environmental Protection Agency Standards (analytical methods)
- U.S. Environmental Protection Agency Asbestos Demolition and Renovation Compliance Monitoring Standards for compliance with National Emissions Standards for Hazardous Air Pollutants – 40 CFR 61.140 through 61.157
- Comprehensive Environmental Response, Compensation, and Liability Act (hazardous waste remediation)
- Resource Conservation and Recovery Act (post-closure)
- 40 CFR (hazardous material storage, transportation, and disposal)
- 40 CFR 761 PCBs Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions

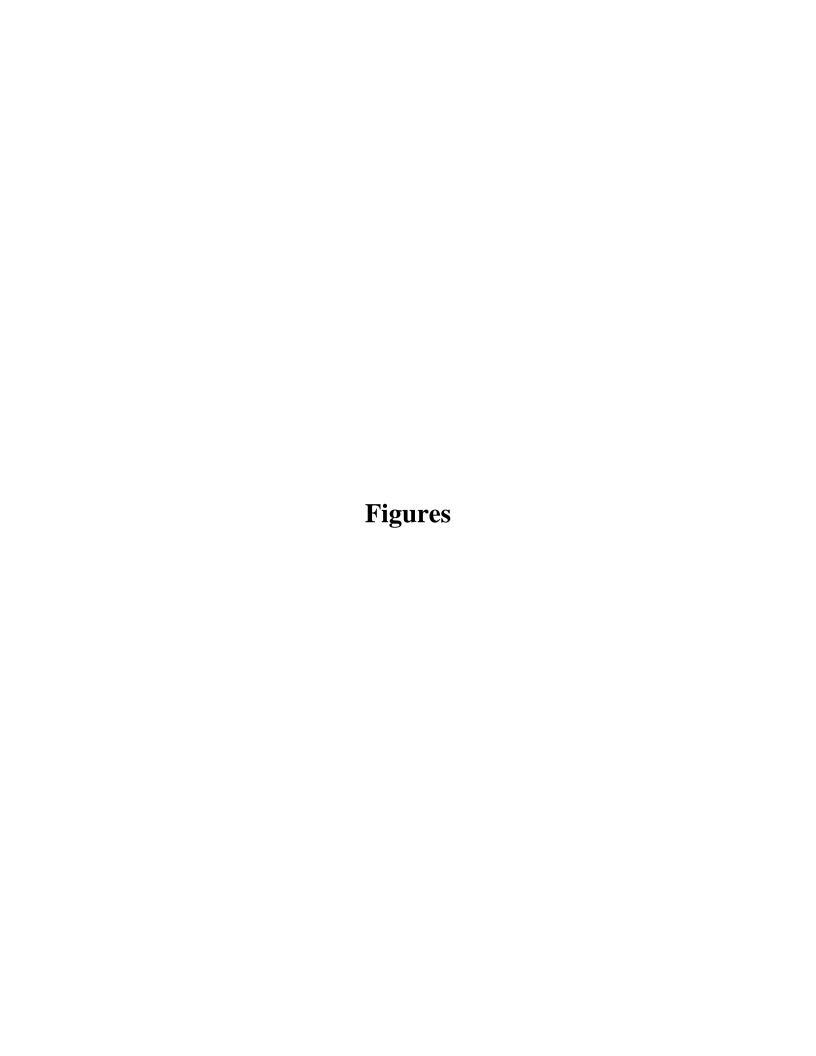
Page 20 October 2020

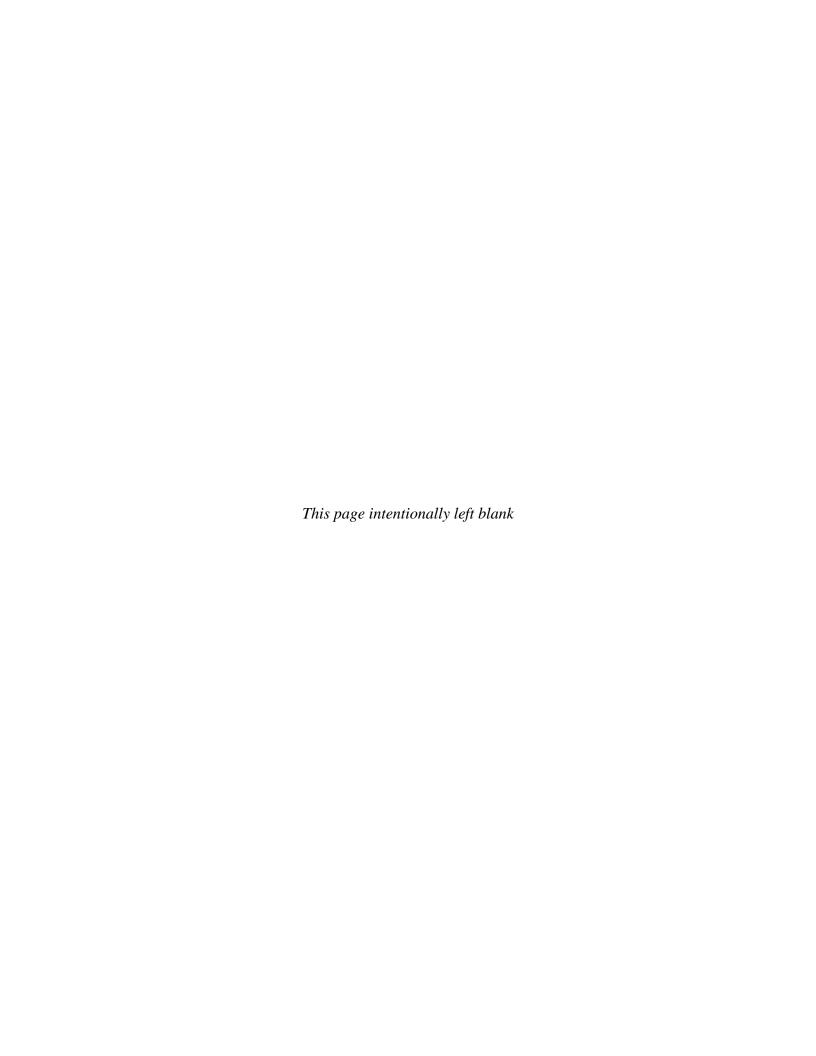
- Occupational Safety and Health Administration standards, 29 CFR Part 1910
- Hazardous Waste Operations and Emergency Response, 29 CFR Part 1910.120
- Safety and Health Regulations for Construction, 29 CFR Part 1926
- NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, May 2010
- New York State Industrial Safety and Health Act standards.

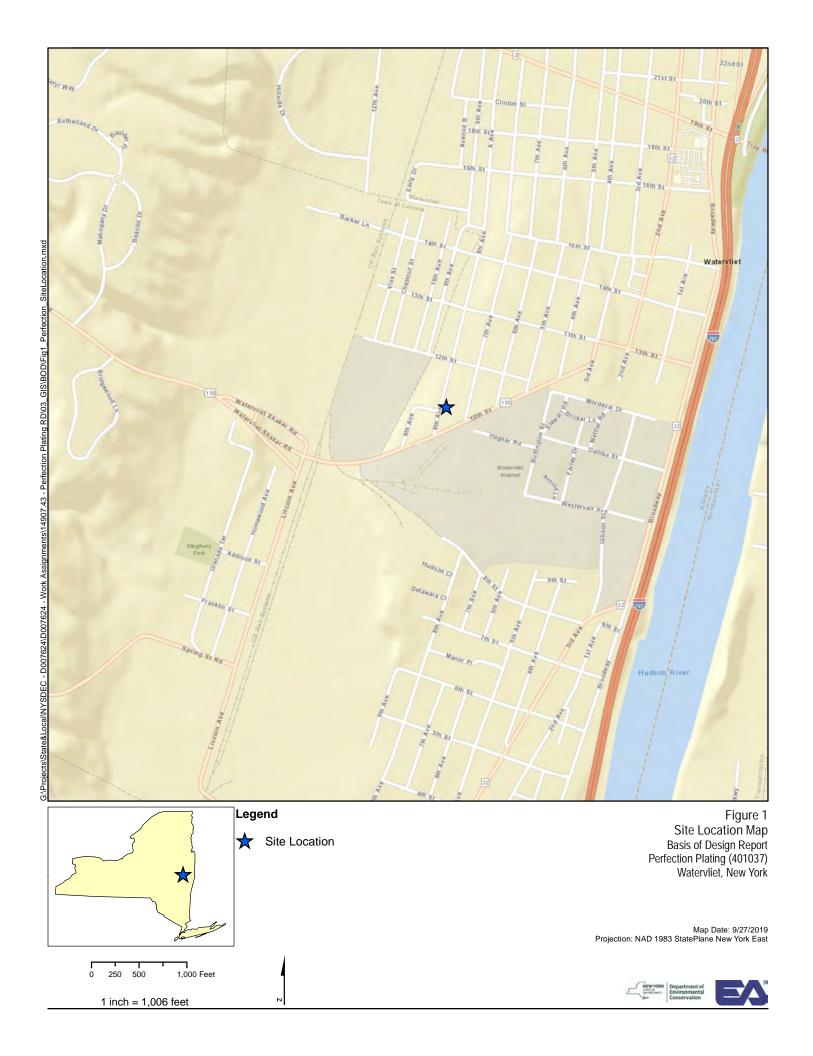
4.7.3 Permitting Plan/Permits

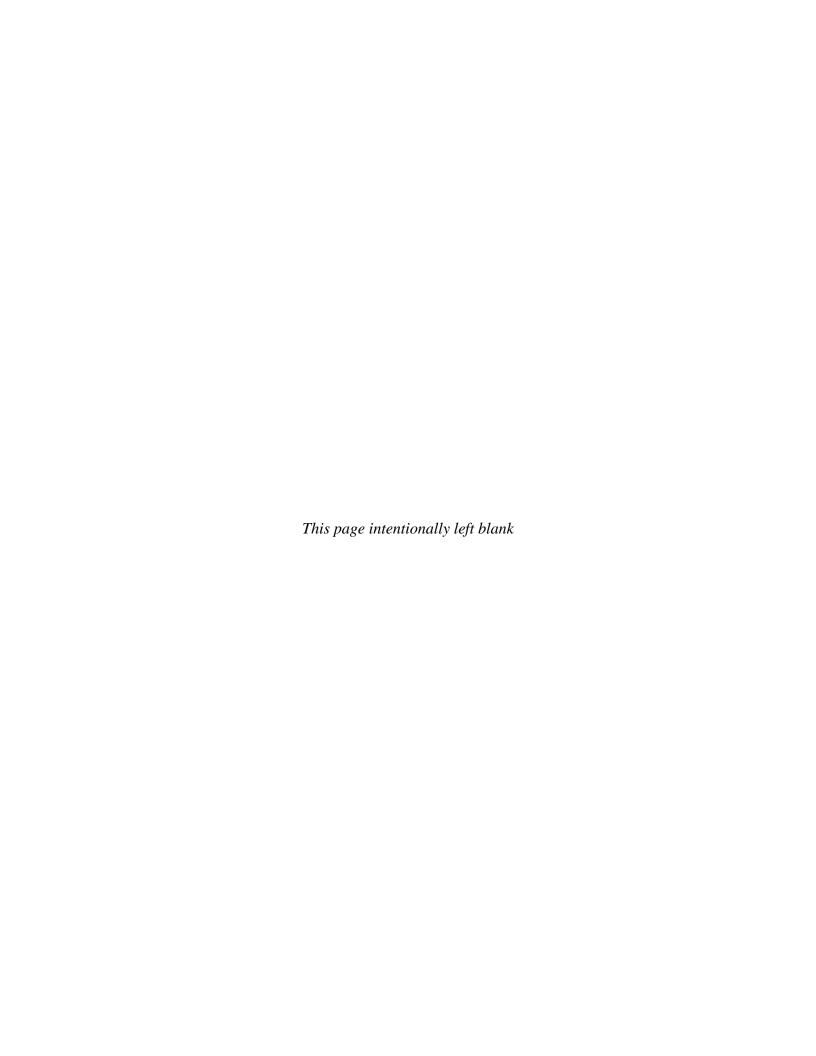
The remedial action contractors would acquire any work permits needed, including building or electric permits at the municipal level. In addition, a grading permit may be required due to the quantity of soil disturbed. However, since this is a State Superfund site, permits are not required. The substantive requirements of all permits typically required would be met; however, a permit issued by the governing agency would not be necessary to begin or complete the work. Substantive requirements of the following permits are anticipated to be met during design and construction of the remedy:

- Asbestos abatement permit from New York State Department of Labor
- State Pollutant Discharge Elimination System for stormwater management and discharge
- General construction and electric permits
- Demolition/building permits from the City of Watervliet
- Solid and hazardous waste management and transport permits
- Air pollution control permits.

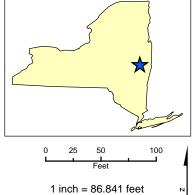












Abandoned Monitoring Well

Sump Location

Bedrock Monitoring Well

Former Excavation Area

Overburden Monitoring Well

Buildings

Replacement Monitoring Well

Collection Trench

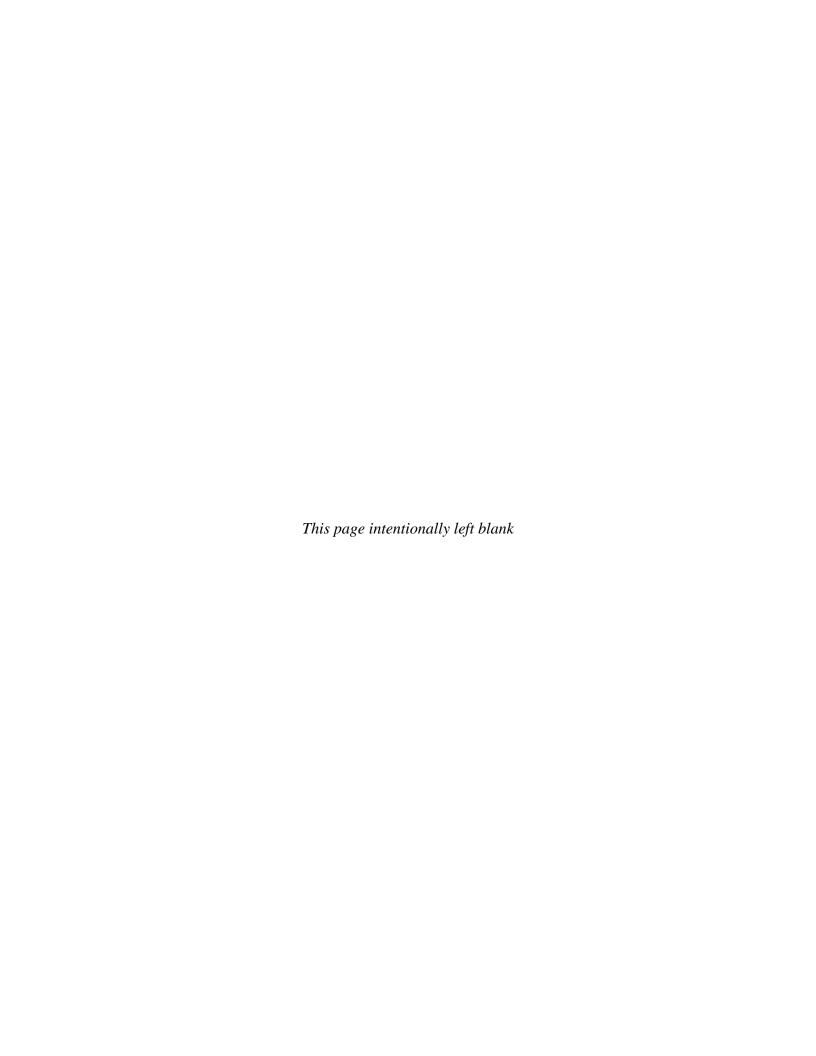
Site Location

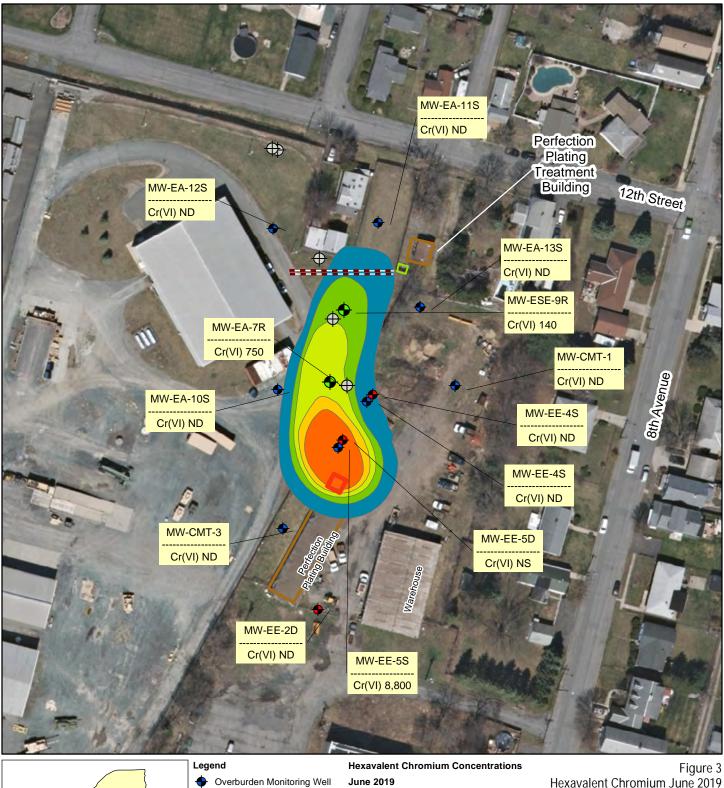
Figure 2 Site Map Basis of Design Report Perfection Plating (401037) Watervliet, New York

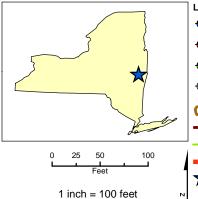
Map Date: 9/27/2019 Projection: NAD 1983 StatePlane New York East











Bedrock Monitoring Well

Replacement Monitoring Well

Abandoned Well, No Need To Replace

Buildings

Collection Trench

Sump Location

Former Excavation Area Site Location

1-50 ug/L

50-100 ug/L

100-500 ug/L

500-1,000 ug/L

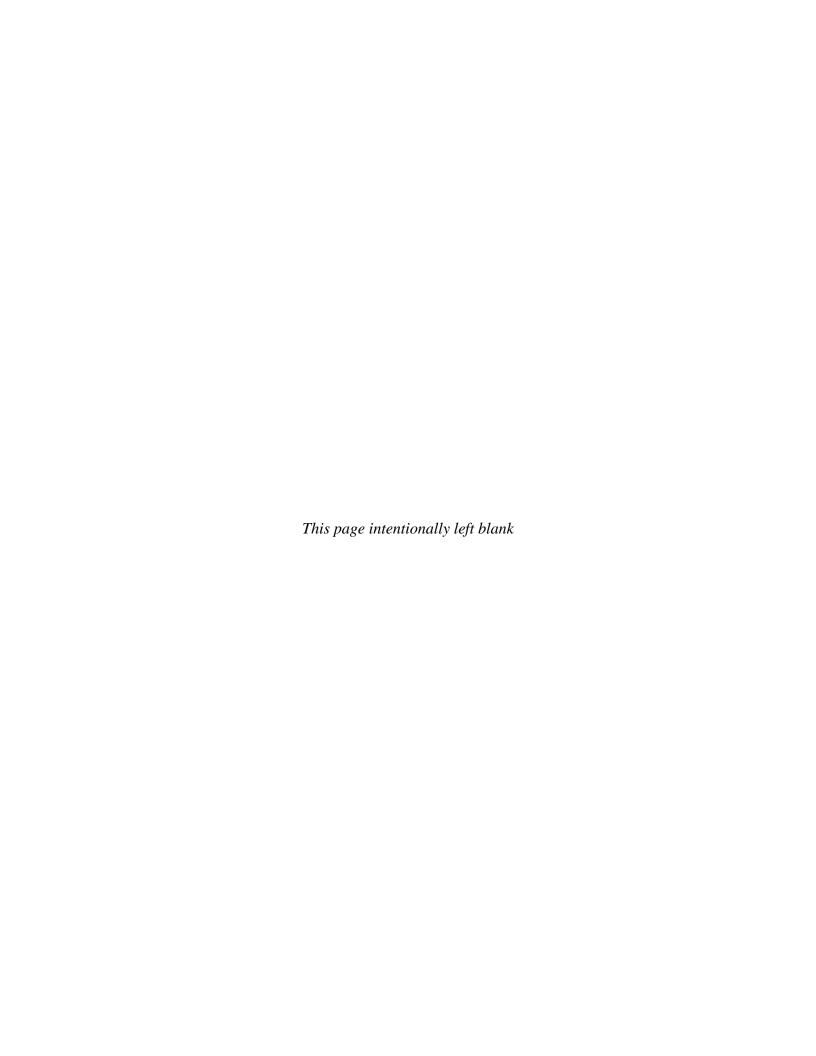
1,000-5,000 ug/L

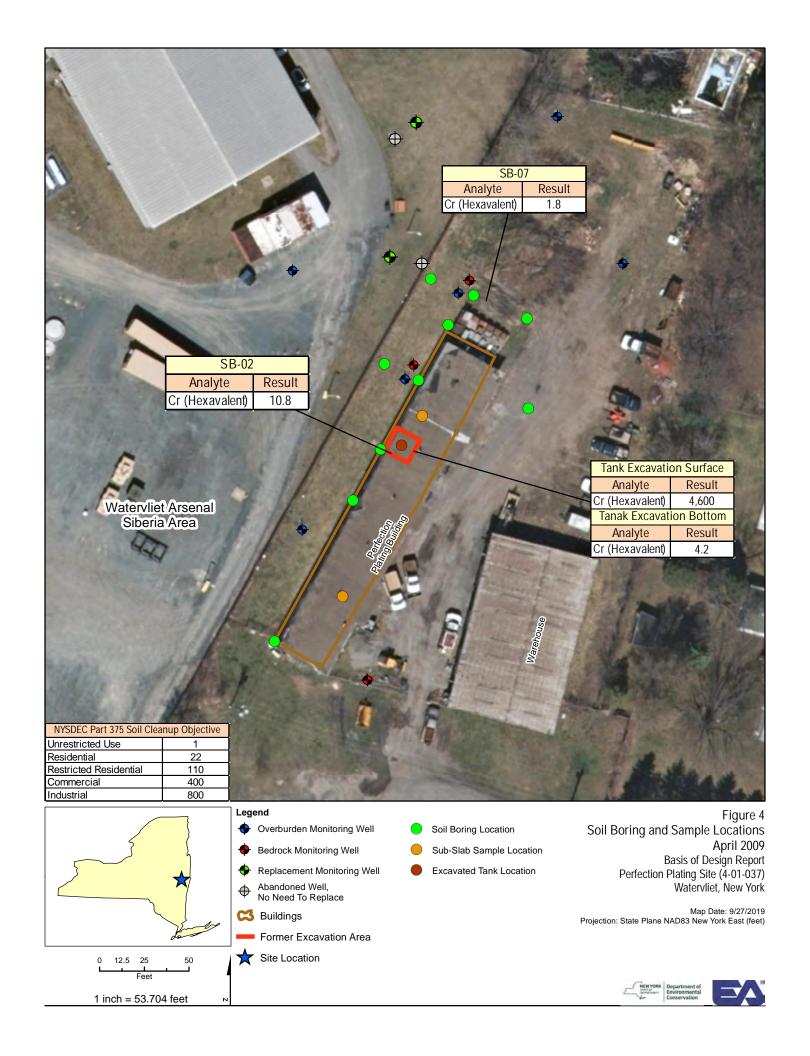
5,000-10,000 ug/L

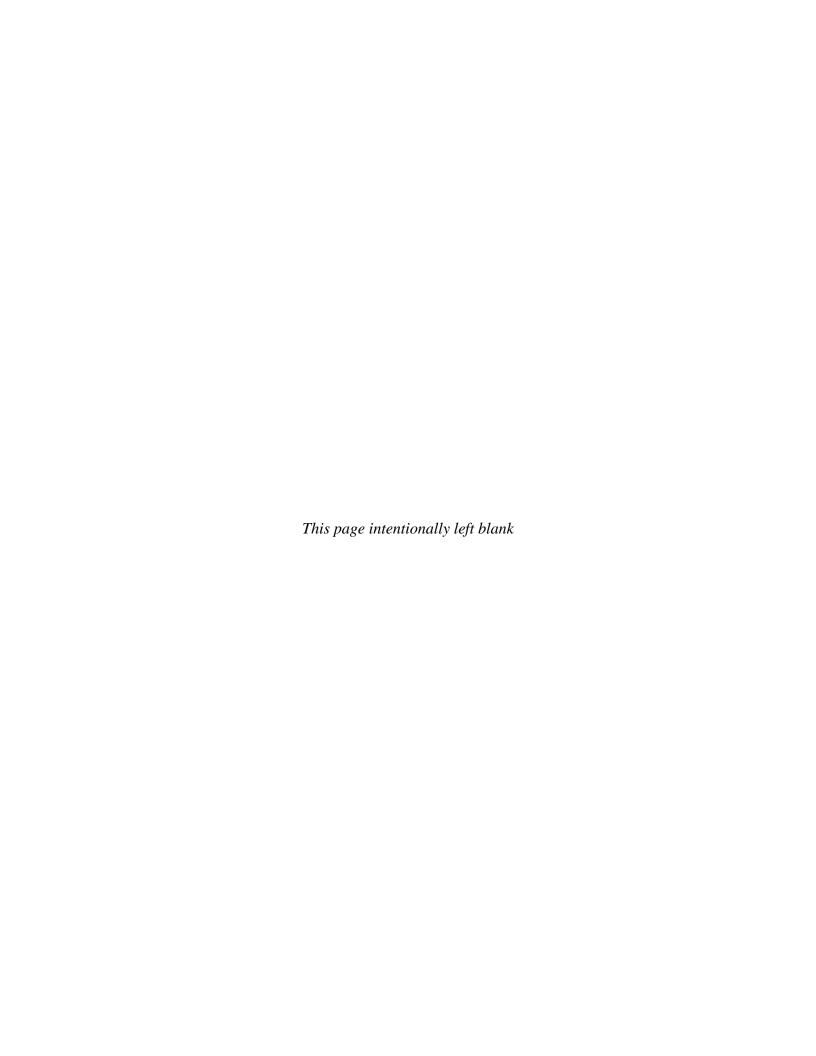
Hexavalent Chromium June 2019 Overburden Isopleth Map Basis of Design Report Perfection Plating Site (4-01-037) Watervliet, New York



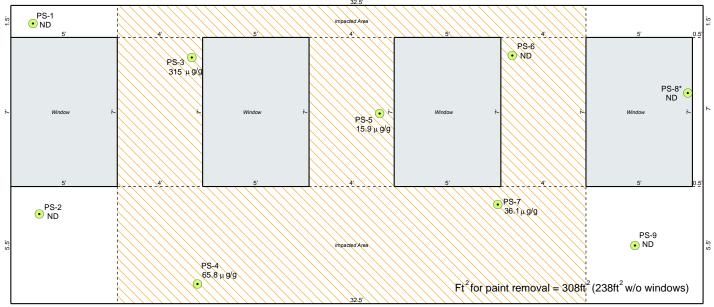












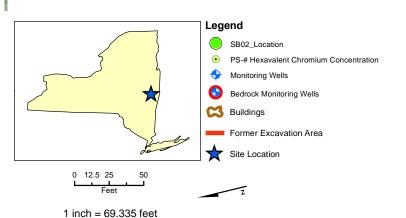
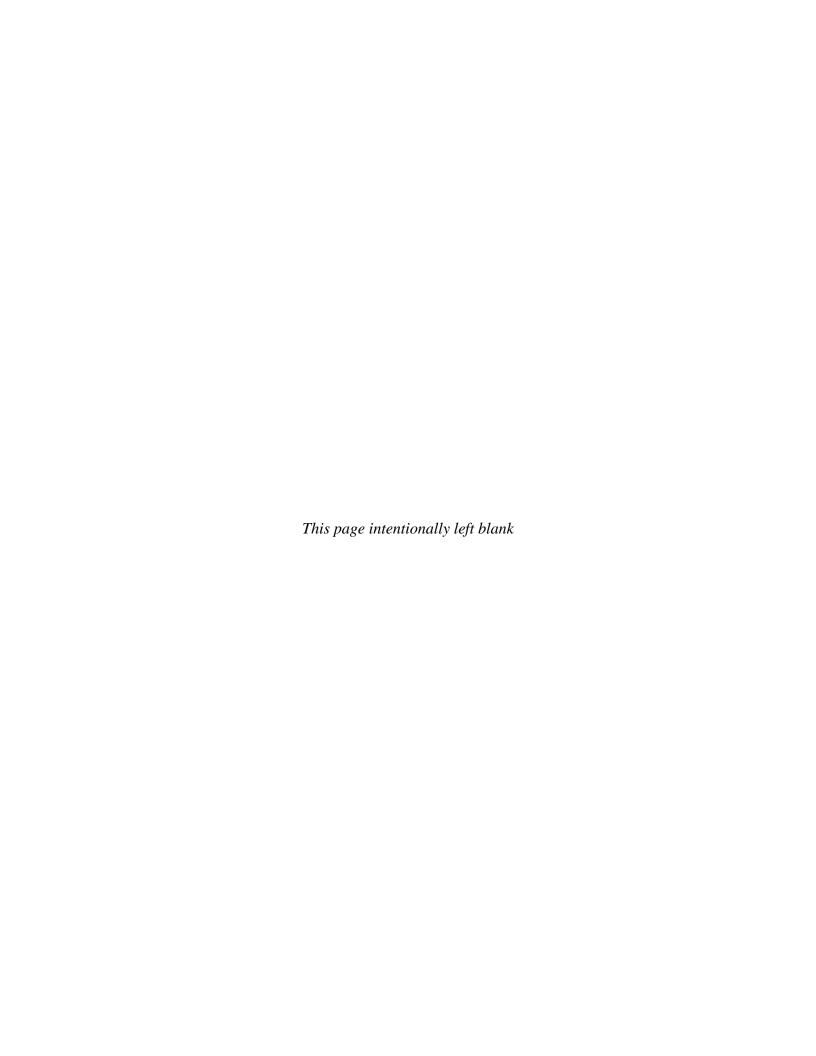


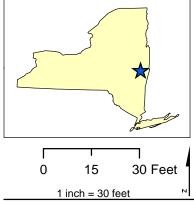
Figure 5 2009 Paint Chip Sampling Analytical Results and Remediation Area Basis of Design Report Perfection Plating Site (4-01-037) Watervliet, New York











2009 Soil Investigation

- Soil Boring Location
- Sub-Slab Sample Location

Former Excavation Area Overburden Monitoring Well

Bedrock Monitoring Well

2014 PDI Sample

Biased Wall Sample

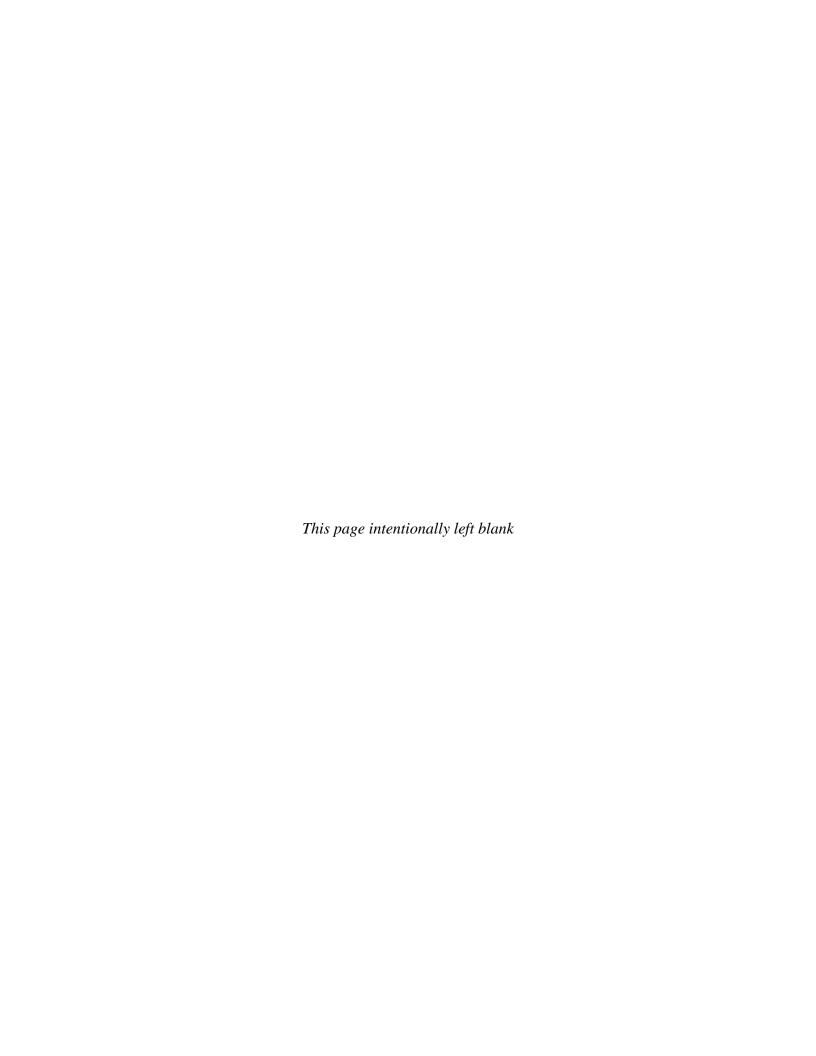
Biased Floor Sample

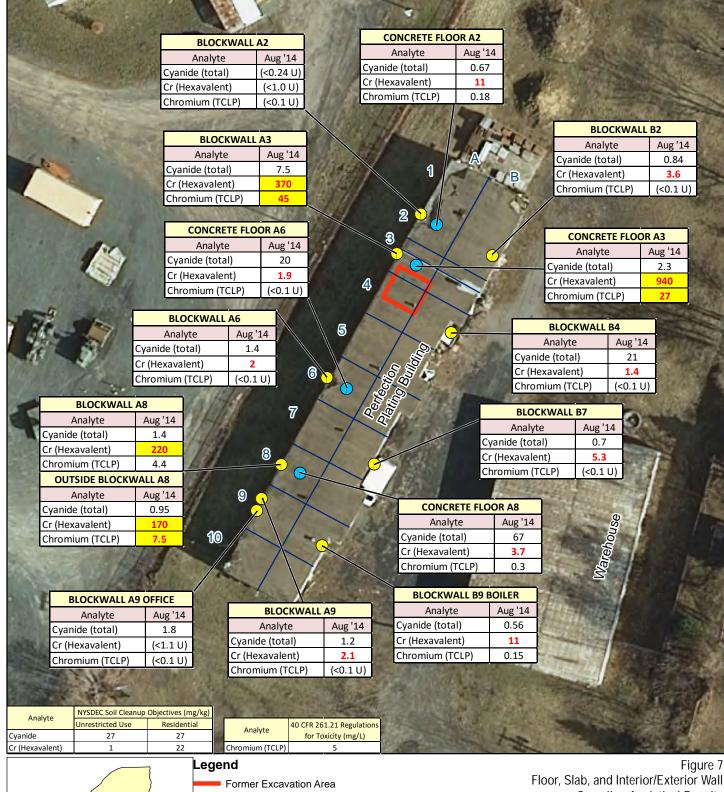
Soil Sampling Location

Pre-Design Investigation Sampling Locations Basis of Design Report Perfection Plating Site (4-01-037) Watervliet, New York











1 inch = 40 feet

Biased Wall Sample

Biased Floor Sample

Site Location

Values in Red exceed NYSDEC Unrestricted Use Soil Cleanup Objective Highlighted Red Values Exceed NYSDEC

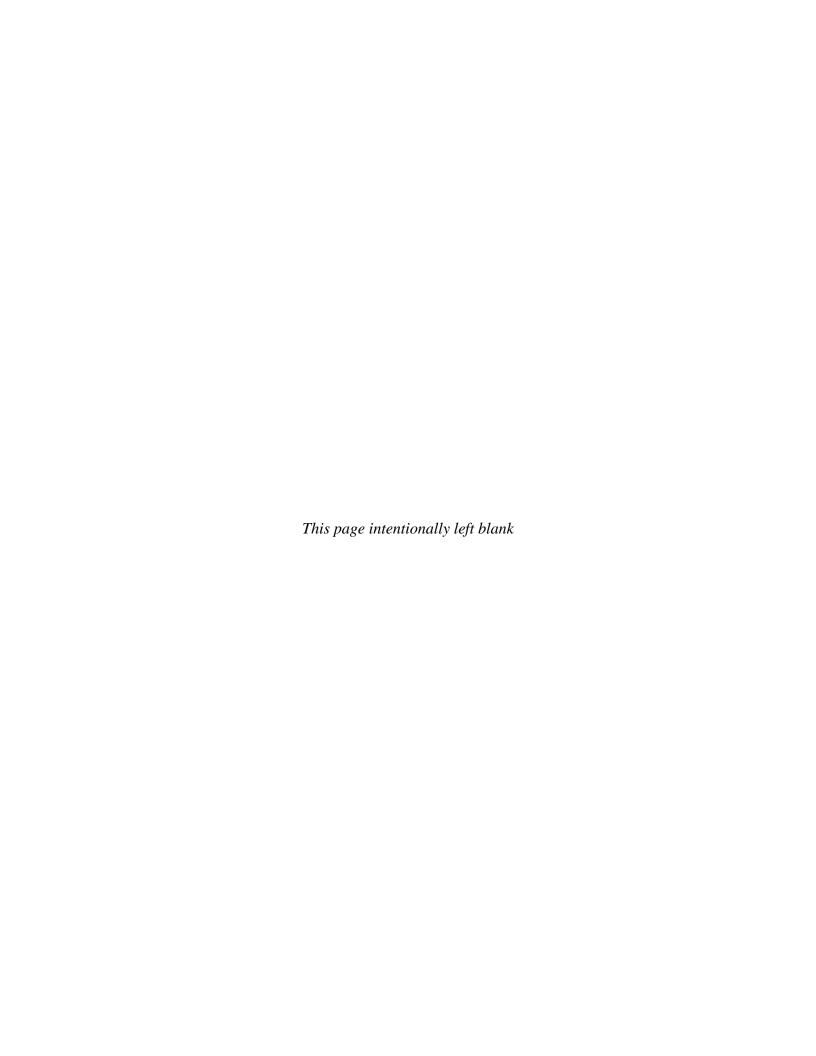
Residential Soil Cleanup Objective or TCLP Standards U = Not detected above associated reporting limit

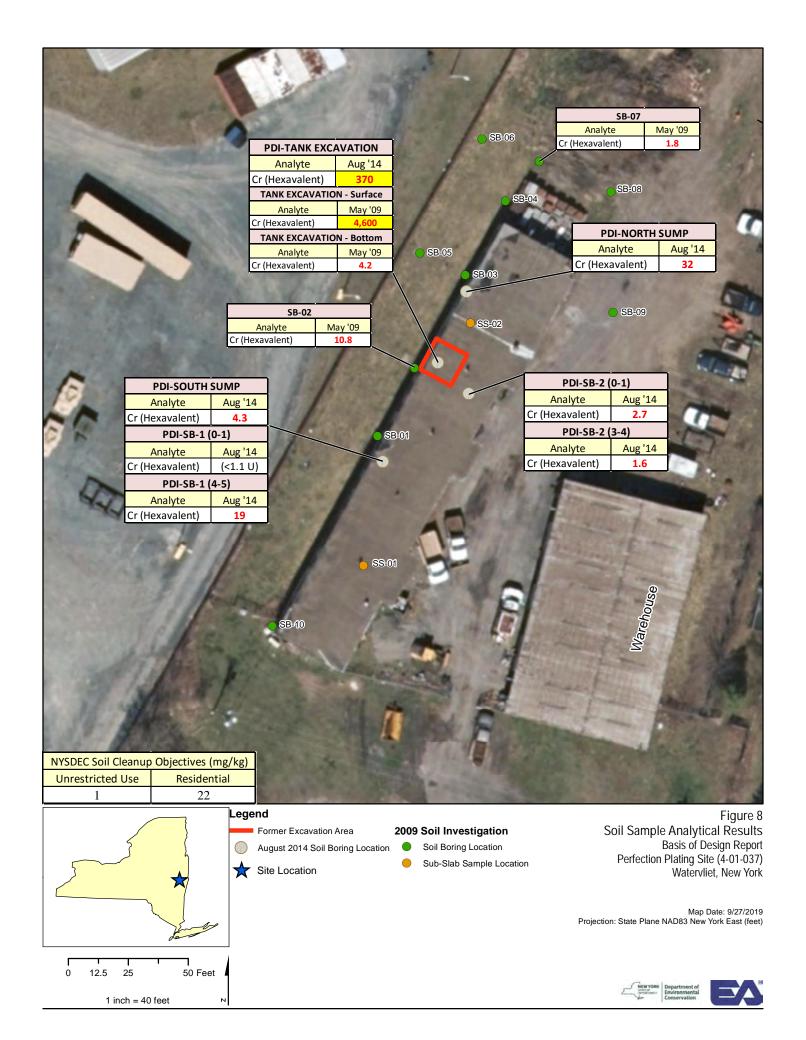
Total metals concentrations reported in milligram per kilogram (mg/kg) Chromium TCLP concentrations reported in milligram per liter (mg/L)

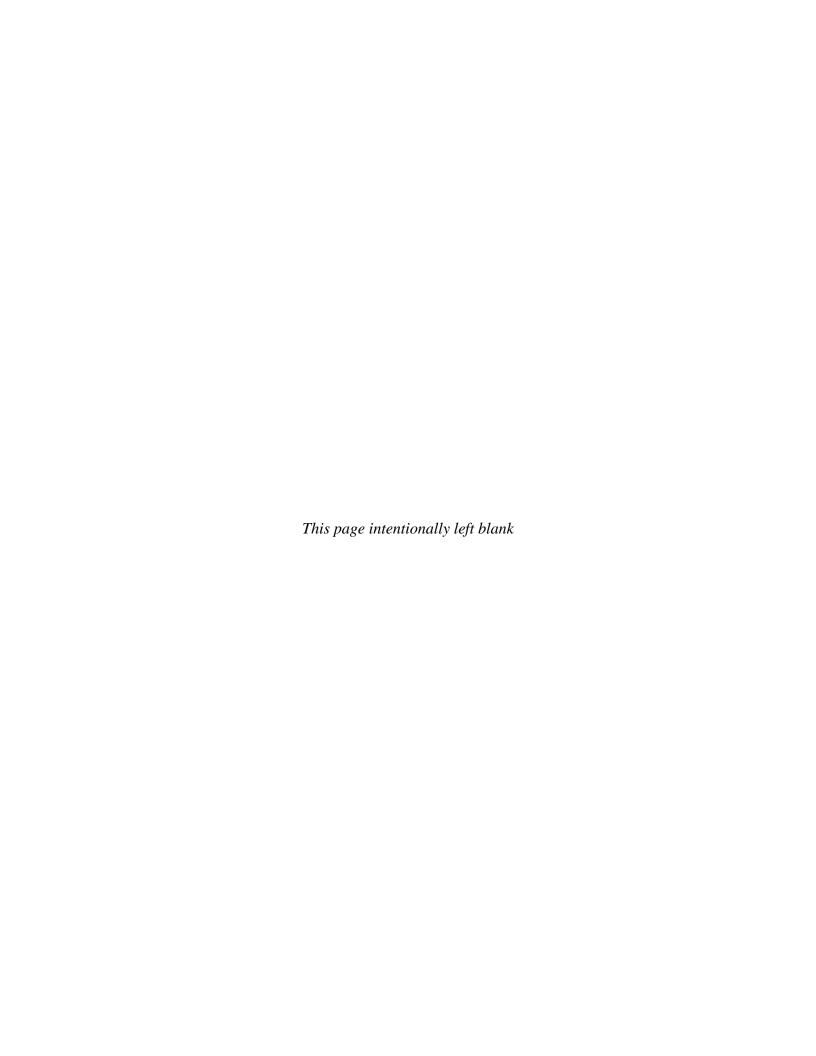
Figure 7
Floor, Slab, and Interior/Exterior Wall
Sampling Analytical Results
Basis of Design Report
Perfection Plating Site (4-01-037)
Watervliet, New York



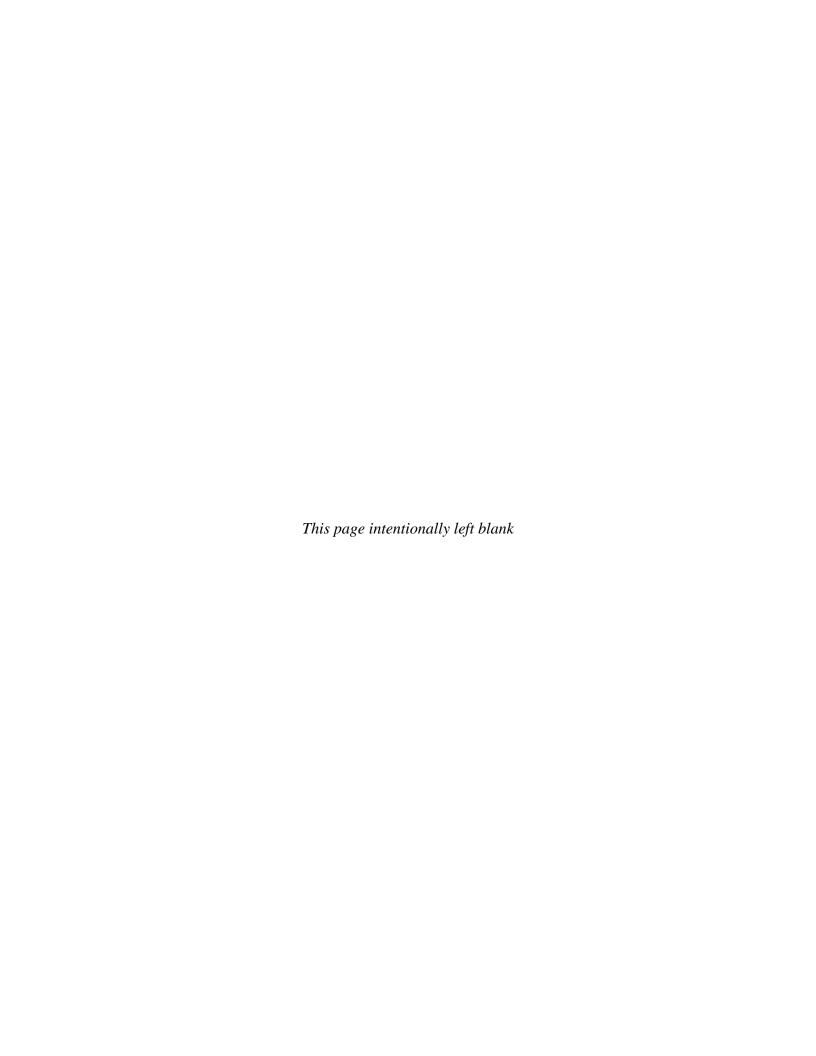




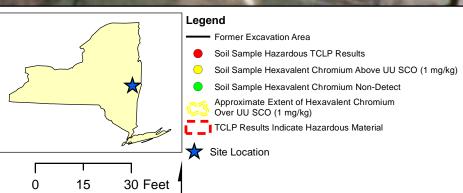










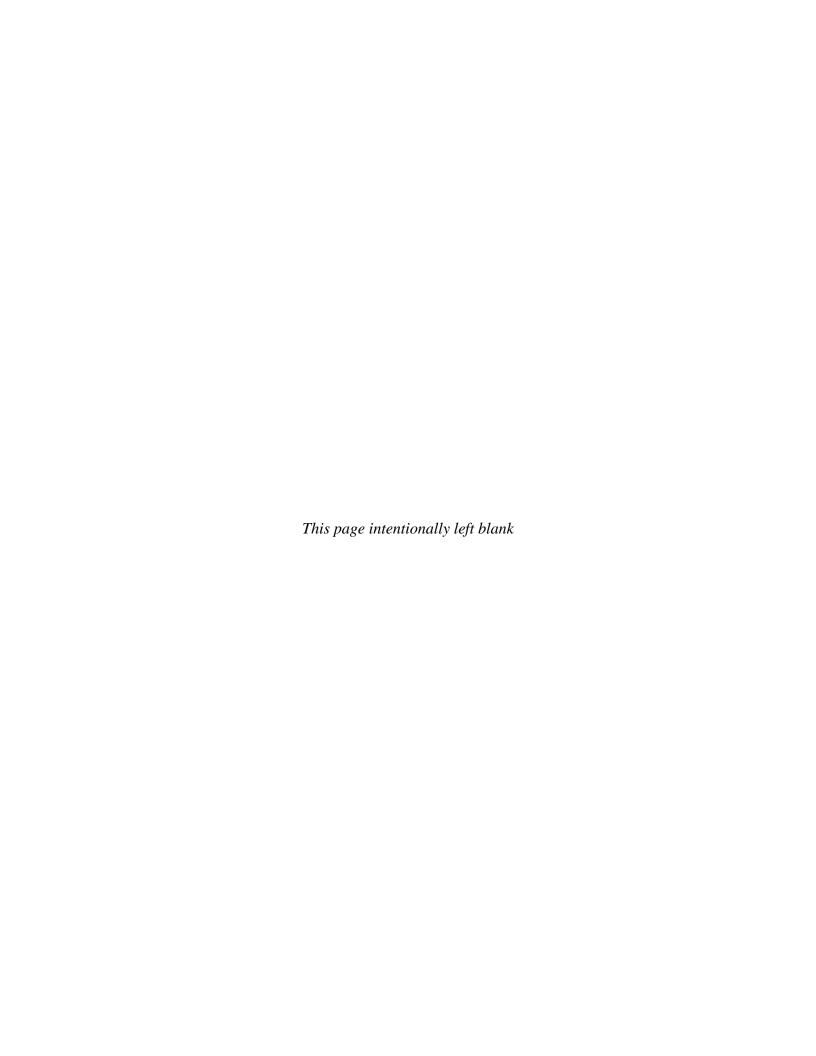


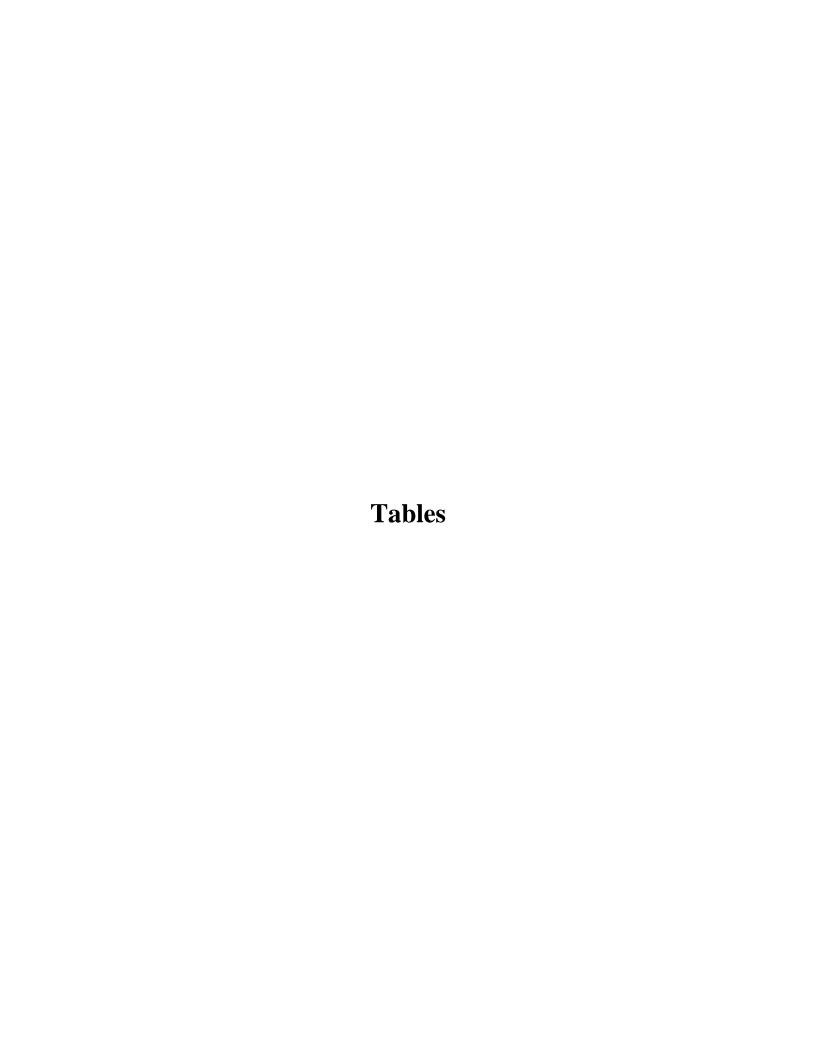
1 inch = 30 feet

Figure 10 Approximate Extent of Hexavalent Chromium Impacted Soil Basis of Design Report Perfection Plating Site (4-01-037) Watervliet, New York









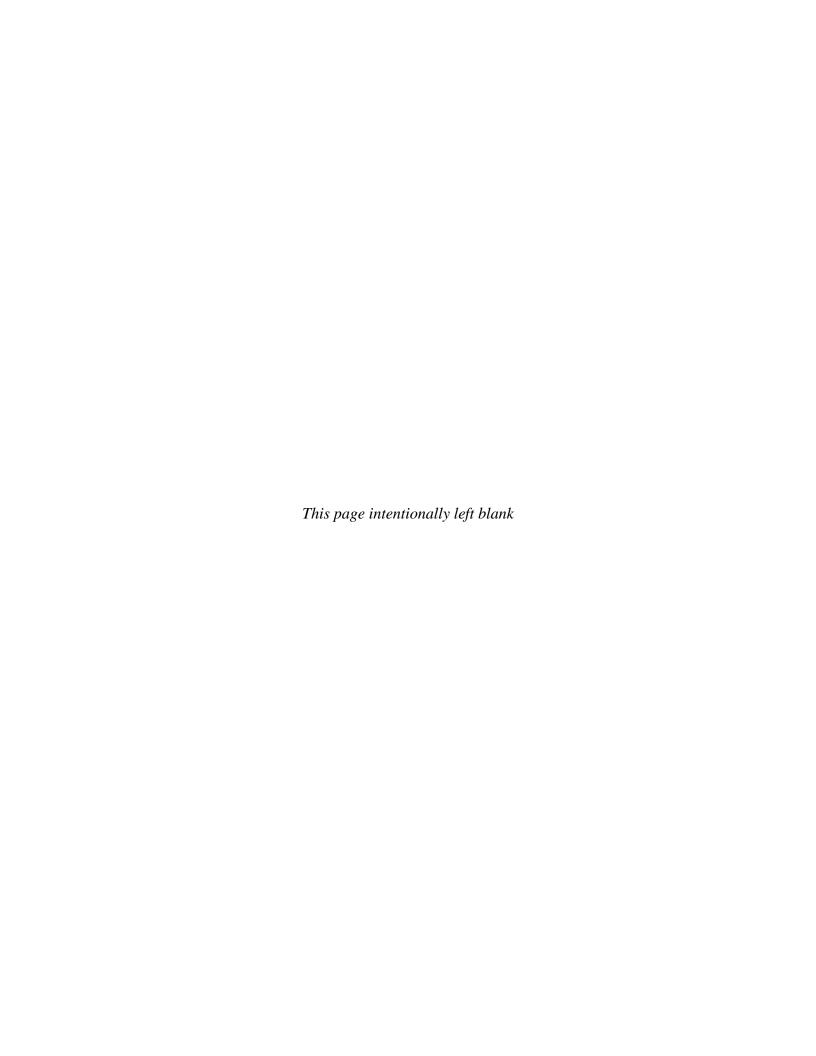


Table 1 Historical Hexavalent Chromium Overburden Groundwater Analytical Results

													NYSDEC Class
													GA Criteria
Date	MW-EE-4S	MW-EE-5S	MW-EE-6S	MW-EA-7	MW-EA-8	MW-CMT-1	MW-ESE-9	MW-CMT-3	MW-EA-10S	MW-EA-11S	MW-EA-12S	MW-EA-13S	$(mg/L)^{(a)}$
21-May-03	ND	40.8	ND	0.975	0.099								0.05
21-Aug-03	0.06	33.7	0.046	1.08	ND								0.05
4-Dec-03	0.041	48.9	0.018	0.744	0.041				-				0.05
24-Feb-04	0.018	33.4	ND	0.857	ND								0.05
12-May-04	0.049	37.4	ND	0.881	0.049								0.05
2-Sep-04	0.735	32.2	ND	1.04	ND								0.05
2-Dec-04	0.06	11.8	ND	0.348	ND								0.05
3-Feb-05	0.083	61.2	ND	0.83	ND								0.05
18-May-05	0.029	35	ND	0.63	ND								0.05
3-Aug-05	0.041	28.7	ND	0.62	ND								0.05
29-Nov-05	0.052	33.6	ND	0.24	ND								0.05
9-Feb-06	0.11	24.9	ND	0.35	ND								0.05
8-Apr-08	0.086	15	ND	0.34	0.049	ND		ND					0.05
1-Jan-09							0.51 ^(b)						0.05
21-Jul-09	0.049	19	ND	0.52	ND	ND	1.3	ND					0.05
12-Oct-10	0.062	17	ND	1	ND	ND	0.4	ND					0.05
1-Mar-12	0.039	17	ND	0.29	ND	ND	3.2	ND					0.05
11/12-Jun-13	0.042	13	ND	0.34	0.15	ND	3.7	ND					0.05
30-Aug-13					3.2 ^(c)								0.05
28-Oct-13	0.029	16	ND	0.37	ND	ND							0.05
15-Jan-14	0.045	13	ND	0.14	ND	ND	2.7	ND					0.05
29-Apr-14	0.061	24	ND	0.45	ND	ND	2.8	ND	ND	0.043	ND	ND	0.05
29-Jul-14	0.045	15	ND	0.43	ND	ND	0.48	ND	ND	0.098	ND	ND	0.05
2-Dec-14	0.045	16	ND	0.44	ND	ND	0.48	ND	ND	0.31	ND	ND	0.05

⁽a) 6 NYCRR Part 703.5 Class GA Groundwater Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended. (b) Sample was collected on 14 January 2009.

ND = Non-detect.

= Not available.

 $\label{eq:local_local_local} All samples reported in milligrams per liter (mg/L). \\ \textbf{Bold} \ values indicate exceedance of Class GA groundwater standards or guidance values. \\$

⁽c) Grab sample collected to confirm June 2013 results. Five gallons of water was removed from the monitoring well prior to collecting the sample. Sample was analyzed by TestAmerica Laboratories.

NOTES: NYSDEC = New York State Department of Environmental Conservation.

EA Engineering, P.C. and Its Affiliate EA Science and Technology

Table 2 Historical Hexavalent Chromium Bedrock Groundwater Analytical Results

					NYSDEC Class GA Criteria
Date	MW-EE-4D	MW-EE-5D	MW-EE-6D	MW-EE-2D	$(mg/L)^{(a)}$
21-May-03	0.008	ND	ND		0.05
21-Aug-03	0.129	ND	0.023		0.05
4-Dec-03	ND	0.004	ND		0.05
24-Feb-03	ND	ND	ND		0.05
12-May-04	0.013	ND	ND		0.05
2-Sep-04	0.016	ND	0.075		0.05
2-Dec-04	0.007	0.034	ND		0.05
3-Feb-05	ND	0.021	ND		0.05
18-May-05	ND	0.031	ND		0.05
3-Aug-05	ND	0.037	ND		0.05
29-Nov-05	ND	ND	ND		0.05
9-Feb-06	ND	ND	ND		0.05
8-Apr-08	ND	ND	ND	ND	0.05
21-Jul-09	ND	ND	ND	ND	0.05
12-Oct-10	ND	ND	ND	ND	0.05
1-Mar-12	ND	ND	ND	ND	0.05
11/12-Jun-13	ND	ND	ND	ND	0.05

(a) 6 NYCRR Part 703.5 Class GA Groundwater Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended.

NOTES: NYSDEC = New York State Department of Environmental Conservation.

ND = Non-detect. - - = Not available.

All samples reported in milligrams per liter (mg/L).

Bold values indicate exceedance of Class GA groundwater standards or guidance values.

EA Project No. 16025.08 Version: REVISED FINAL Table 3, Page 1 of 1 October 2020

Table 3 Paint Analytical Results

	Chro	Cr (Hex	avalent) (mg/kg)	
Sample ID	Result Reporting Limit		Result	Reporting Limit
Initial Paint Sample	7,450	25	328.0	0.40
PS-1			ND	0.40
PS-2			ND	0.40
PS-3			315	0.40
PS-4			65.8	0.40
PS-5			15.9	0.40
PS-6			ND	0.40
PS-7			36.1	0.40
PS-8			ND	0.40
PS-9			ND	0.40
PS-10			ND	0.40
PS-11			ND	0.40
Block Wall Under Window			112	40
SS-1	3,910	2.5	112	40
SS-2	1,340	2.5	656	0.40
SS-3	614	2.5	111	0.40
SS-4	35.8	ND	0.40	
NYSDEC	C Part 375 Uni	restricted Use Soil Cle	anup Objective	es (mg/kg)
		NA		1.0

NOTES: -- = The analyte was not analyzed for.

ND = Non-detect.

NYSDEC = New York State Department of Environmental Conservation.

NA = Not applicable.

Bold values indicate that the analyte was detected above the NYSDEC Part 375

Unrestricted Use Soil Cleanup Objectives

Analytical results reported in milligrams per kilogram (mg/kg).

All analytical data results provided by Adirondack Environmental Services, Inc.

"Initial Paint Sample" was collected during the 16 April 2009 sampling event.

Paint samples PS-1 through PS-11 were collected by EA on 19 November 2009.

Paint sample "Block Wall Under Window" was collected by Aztech Environmental

on 11 December 2009.

Paint Samples SS-1 through SS-4 were collected by the NYSDEC on 12 December 2009.

		Investigation 2014 Sample C			
Sampling Activity	Sample ID	Sampling Location/Type	Sample Medium	Analysis	
	Blockwall A2				
	Blockwall A3	Interior Wall			
	Blockwall A6	Interior Wan			
	Blockwall A8				
	Outside Blockwall A8	Exterior Wall			
	Blockwall A9				
Building Floor Slab and	Blockwall A9 Office			Hexavalent Chromium, Cyanide, Toxicity	
Interior/Exterior Wall	Blockwall B2	Interior Wall	Bulk Concrete	Characteristic Leaching	
Sampling	Blockwall B4	Interior Wan		Procedure (TCLP) Metals	
	Blockwall B7				
	Block wall B9 Boiler				
	Concrete Floor A2				
	Concrete Floor A3	Floor Slab			
	Concrete Floor A6	11001 State			
	Concrete Floor A8				
	SB-1 (0-1 ft)	Immediately Below Slab			
	SB-1 (4-5 ft)	4-5 ft below Slab			
	SB-2 (0-1 ft)	Immediately Below Slab		Hexavalent Chromium	
Building Interior Soil	SB-2 (3-4 ft)	3-4 ft below Slab	Soil	ricxavaicht Chromium	
Sampling	North Sump	North Sump			
	South Sump	South Sump			
	Tank Excavation	Tank Excavation Area		Hexavalent Chromium, TCLP Metals	
	Paint Steel-B5	Structural Steel			
	Paint Steel-B8	Structural Steel			
Adhasiya Camplina	Expansion Joint B6	Congreta Slab Evmansion Isint	Adhesive	Polychlorinated Biphenyls	
Adhesive Sampling	Expansion Joint A7	Concrete Slab Expansion Joint	Adhesive	(PCBs)	
	Window Glue B7	Window Coulls			
	Window Caulk B7	- Window Caulk			
	1 Landis				
	2 Admiral Buffer				
	3 Hydro Finisher				
	4 Buhalo Drill Press				
	5 Yellow Forklift				
	6 Orange Forklift				
	7 Roots Blaum				
	8 Dust Collector				
	9 Welder				
Equipment and Materials	10 Mag Floor Sweeps	Equipment/Material Incide			
Equipment and Materials Inventory and Characterization	11 Work Bench	Equipment/Material Inside Building	Wipe Sample	Hexavalent Chromium	
inventory and characterization	12 Compressor 1	Zunung			
	13 Compressor 2				
	14 Flag				
	15 Cut Off Saw				
	16 Toledo Scale				
	17 Fair Bank Scale				
	18 Brake				
	19 Shear				
	20 Boston Blower				
	21 125HP Motor				

			Table 5 Bull	ding Floor Slab	and interior/Exte	erior vvali Sampli	ng Analytical Resu	its		
	CONCRETE	CONCRETE	CONCRETE	CONCRETE			OUTSIDE			
CLIENT ID:	FLOOR A6	FLOOR A8	FLOOR A2	FLOOR A4		BLOCKWALL A8	BLACKWALL A8	BLOCKWALL A9	Table 375-	Table 375-6.8(b): Restricted
LAB ID:	AC80234-011	AC80234-012	AC80234-013	AC80234-014	AC80234-015	AC80234-016	AC80234-017	AC80234-018	6.8(a):Unrestricted Use	Use Soil Cleanup Objectives-
COLLECTION DATE:	8/5/2014	8/5/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014	Soil Cleanup Objectives	Residential
				Metals	(mg/kg)					
Cyanide	20	67	0.67	2.3	1.4	1.4	0.95	1.2	27	27
Cr (Hexavalent)	1.9	3.7	11	940	2	220	170	2.1	1	20
			Met	tals TCLP (mg/L)					NYS AWQS Class GA Standards (mg/L)	40 CFR 261.21 Regulations for Toxicity (mg/L)
Mercury	(<0.0007 U)	(<0.0007 U)	(<0.0007 U)	(<0.0007 U)	0.018	0.0011	(<0.0007 U)	0.0028	0.0007	0.2
Arsenic	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	0.0250	5.0
Barium	0.41	0.31	0.51	0.47	0.26	0.31	(<0.25 U)	0.28	1.0	100.0
Cadmium	0.83	(<0.05 U)	(<0.05 U)	0.072	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	0.0050	1.0
Chromium	(<0.1 U)	0.3	0.18	27	(<0.1 U)	4.4	7.5	(<0.1 U)	0.0500	5.0
Lead	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	0.0250	5.0
Nickel	(<0.1 U)	0.11	0.1	(<0.1 U)	2.4	0.5	0.18	0.19	0.1000	NA
Selenium	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	0.0100	1.0
Silver	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	0.0500	5.0
CLIENT ID:	BLOCKWALL A2 AC80234-019	BLOCKWALL A3 AC80234-020	BLOCKWALL B2 AC80234-022	BLOCKWALL B4 AC80234-023	BLOCKWALL B7 AC80234-024	BLOCKWALL A9 OFFICE AC80234-025	BLOCKWALL B9 BOILER AC80234-026		Table 375-	Table 375-6.8(b): Restricted
COLLECTION DATE:	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014		6.8(a):Unrestricted Use Soil Cleanup Objectives	Use Soil Cleanup Objectives- Residential
COLLECTION DATE.	8/0/2014	0/0/2014	8/0/2014		(mg/kg)	8/0/2014	6/0/2014		3011 Cleanup Objectives	Residential
Cyanide	(<0.24 U)	7.5	0.84	21	0.7	1.8	0.56		27	27
Cr (Hexavalent)	(<0.24 U)	370	3.6	1.4	5.3	(<1.1 U)	11		1	20
			Metals TCLP	(mg/L)					NYS AWQS Class GA Standards (mg/L)	40 CFR 261.21 Regulations for Toxicity (mg/L)
Mercury	(<0.0007 U)	0.0047	(<0.0007 U)	0.021	0.002	0.00089	0.0023		0.0007	0.2
Arsenic	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)		0.0250	5.0
Barium	0.27	0.27	0.29	0.28	0.37	(<0.25 U)	0.32		1.0	100.0
Cadmium	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)		0.0050	1.0
Chromium	(<0.1 U)	45	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	0.15		0.0500	5.0
Lead	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)		0.0250	5.0
Nickel	0.6	3.3	0.22	6.9	0.34	0.83	0.23		0.1000	NA
Selenium	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)	(<0.1 U)		0.0100	1.0
Silver	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)	(<0.05 U)		0.0500	5.0
		= Toxicity Character = Milligrams per lite	e presented is reportir ristic Leaching Proceder. mbient Water Quality egulations.	lure.						
		sidential SCO or 40 (ns for Toxicity.						

Table 6 Building	Interior Soil Samplin	a Analytical Results
Table o Dullullis	michiol Son Sambini	2 Analytical Results

				able o building int	<u> </u>	8 .,				
CLIENT ID: LAB ID: COLLECTION DATE:	PDI-SB-1 (0-1) AC80234-001 8/5/2014	PDI-SB-1 (4-5) AC80234-002 8/5/2014	PDI-SB-2 (0-1) AC80234-003 8/5/2014	PDI-SB-2 (3-4) AC80234-004 8/5/2014	PDI-NORTH SUMP AC80234-005 8/5/2014	PDI-SOUTH SUMP AC80234-006 8/5/2014	TANK EXCAVATION SOIL AC80234-021 8/6/2014	Table 375- 6.8(a):Unrestricted Use Soil Cleanup Objectives	Table 375-6.8(b): Restricted Use Soil Cleanup Objectives- Residential	Universal Treatment Standards Nonwastewater Standard
				Met	als by CR6-SOIL (r	ng/kg)				
Cr (Hexavalent)	(<1.1 U)	19	2.7	1.6	32	4.3	370	1	20	NA
			Metals TCLP (n	ng/L)	•			NYS AWQS Class GA Standards (mg/L)	40 CFR 261.21 Regulations for Toxicity (mg/L)	Universal Treatment Standards Nonwastewater Standard
Mercury	NA	NA	NA	NA	NA	NA	(<0.0007 U)	0.0007	0.2	0.025
Arsenic	NA	NA	NA	NA	NA	NA	(<0.1 U)	0.0250	5.0	5
Barium	NA	NA	NA	NA	NA	NA	(<0.25 U)	1.0	100.0	21.0
Cadmium	NA	NA	NA	NA	NA	NA	(<0.05 U)	0.0050	1.0	0.11
Chromium	NA	NA	NA	NA	NA	NA	13	0.0500	5.0	0.60
Lead	NA	NA	NA	NA	NA	NA	(<0.05 U)	0.0250	5.0	0.75
Nickel	NA	NA	NA	NA	NA	NA	(<0.1 U)	0.1000	NA	11.0
Selenium	NA	NA	NA	NA	NA	NA	(<0.1 U)	0.0100	1.0	5.7
Silver	NA	NA	NA	NA	NA	NA	(<0.05 U)	0.0500	5.0	0.14
	Above NYSDEC Pa	= Not analyzed. w detected concentratio art 375 Cleanup Standa	presented is reporting ns. rds	limit.	_					

EA Project No. 16025.08 Version: REVISED FINAL Table 7, Page 1 of 1 October 2020

Table 7 Adhesive Sampling Analytical Results

		Table 7 Adhesive Sai	npning Anaiyuca	i Kesuits		1
CLIENT ID:	PAINT STEEL-B5	PAINT STEEL-B8	EXPANSION JOINT B6	EXPANSION JOINT A7	WINDOW CAULK B7	Table 375- 6.8(b):Restricted Use
LAB ID:	AC80234-007	AC80234-008	AC80234-009	AC80234-010	AC80234-028	Soil Cleanup Objectives -
COLLECTION DATE:	8/5/2014	8/5/2014	8/5/2014	8/5/2014	8/6/2014	Commercial (mg/kg)*
		PCBs by 8082 (mg/	kg)			
Aroclor (Total)	0.81	0.77	7.1	11.4	0.78	1
Aroclor-1016	(<0.26 U)	(<0.026 U)	(<0.26 U)	(<0.27 U)	(<0.025 U)	1
Aroclor-1221	(<0.26 U)	(<0.026 U)	(<0.26 U)	(<0.27 U)	(<0.025 U)	1
Aroclor-1232	(<0.26 U)	(<0.026 U)	(<0.26 U)	(<0.27 U)	(<0.025 U)	1
Aroclor-1242	0.81	0.56	1.4	1.4	0.78	1
Aroclor-1248	(<0.26 U)	(<0.026 U)	(<0.26 U)	(<0.27 U)	(<0.025 U)	1
Aroclor-1254	(<0.26 U)	(<0.026 U)	(<0.26 U)	(<0.27 U)	(<0.025 U)	1
Aroclor-1260	(<0.26 U)	(<0.026 U)	5.7	10	(<0.025 U)	1
Aroclor-1262	(<0.26 U)	0.21	(<0.26 U)	(<0.27 U)	(<0.025 U)	1
Aroclor-1268	(<0.26 U)	(<0.026 U)	(<0.26 U)	(<0.27 U)	(<0.025 U)	1
		General Chemistr	·y			
% Solids (in Percent)	97	95	97	94	NA	NA
		= Identification. = Milligrams per kilogra = Polychlorinated biphe = Not detected; value pr = Not analyzed. cted concentrations. ricted Use Soil Cleanup C	nyl. resented is reporting li bjectives for Comme	rcial properties.		

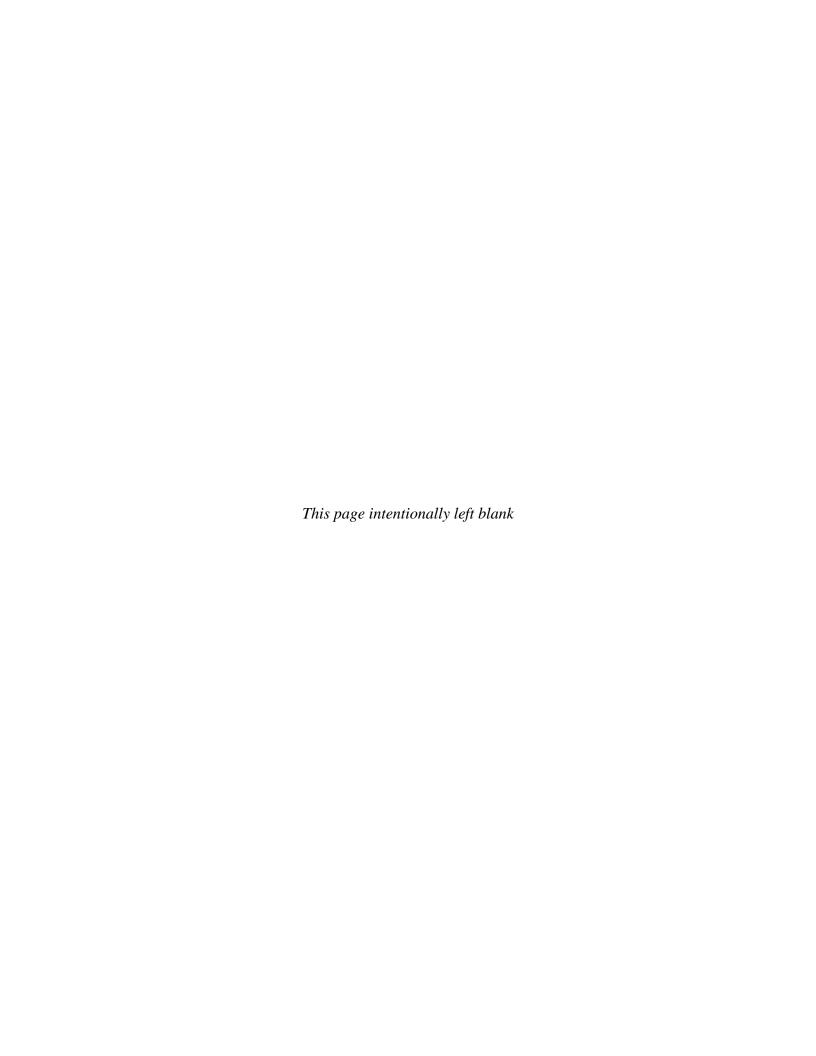
Version: REVISED FINAL Table 8, Page 1 October 2020

EA Engineering, P.C. and Its Affiliate EA Science and Technology

Table 8 Equipment and Materials Analytical Results

		Table o Equip	oment and Matei	lais Alialytical	Results			
		2 ADMIRAL	3 HYDRO	4 BUFFALO	5 YELLOW	6 ORANGE	7 ROOTS	
CLIENT ID:	1 LANDIS	BUFFER	FINISHER	DRILL PRESS	FORKLIFT	FORKLIFT	BLOWER	
LAB ID:	AC80234-029	AC80234-030	AC80234-031	AC80234-032	AC80234-033	AC80234-034	AC80234-035	
COLLECTION DATE:	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014	
		N	Metals by CR6-WA7	ΓER (mg/L)				
Cr (Hexavalent)	0.018	(<0.0012 U)	(<0.0012 U)	(<0.0012 U)	0.0014	0.074	(<0.0012 U)	
	0 DIJOT		Lionaccioon	11 WODY	Ī	ı		
CV VENTE ID	8 DUST	O WELDED	10 MAG FLOOR	11 WORK	12 COMPRESSOR 1	12 COMPRESSOR A	14 EL A CED	
CLIENT ID:	COLLECTOR	9 WELDER	SWEEPS	BENCH		13 COMPRESSOR 2	14 FLAGER	
LAB ID:	AC80234-036	AC80234-037	AC80234-038	AC80234-039	AC80234-040	AC80234-041	AC80234-042	
COLLECTION DATE:	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014	
Metals by CF	Metals by CR6-WATER (mg/L) 5							
r (Hexavalent) (<0.0012 U) 0.015 0.0016 0.0023 0.0064 0.062 (<0.0012 U)								
	15 CUTT OFF	16 TOLEDO	17 FAIR BANK			20 BOSTON	21 125 HP	
CLIENT ID:		SCALE	SCALE	18 BRAKE	19 SHEAR	BLOWER	MOTOR	
LAB ID:	AC80234-043	AC80234-044	AC80234-045	AC80234-046	AC80234-047	AC80234-048	AC80234-049	
COLLECTION DATE:	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014	
Metals by CR6-WATER (mg/L)								
Cr (Hexavalent)	0.004	0.0084	0.01	0.0029	(<0.0012 U)	0.047	0.022	
NOTES:	ID	= Identification.						
	mg/L	= Milligrams per ki	ilogram.					
	U	= Not detected: val	ue presented is report	ing limit.				
	Values in bold show	v detected concentrate		<i>5</i>				
, alab in sold slow detected contentations.								

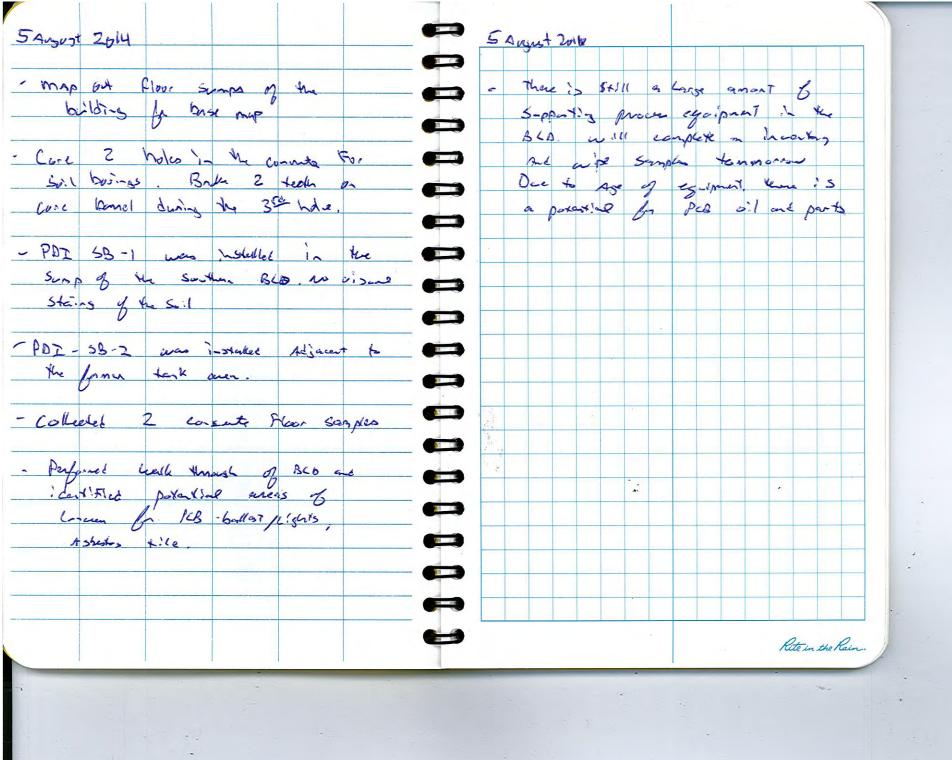
Appendix A Field Book and Daily Field Reports



PAGE REFERENCE DATE 730 Charles Experts of the Less as a corner of properly own to be a corn	R.5
- Southern Portion of almost cleared out. - Creen Staining is man believed to be a comment of properly count boiling as maning ego of the staining as maning ego. - Das Barnet from the or maning as maning ego. - 1205 Bar has been a comment of the maning ego.	
- Southern Portion of almost cleared out. - Creen Staining is made and the form of calling the form of calling the making again to the corner of property count to staining at making again to the control of the contr	perty o
- Southern Portion of almost Cleared out. - Creen Staining is man - Learned to fire the first of the first	nopery
Almost cleared out - Creen Staining is ma Levels / Floor of Ceiling the Melienes to be - Dim H. callod Sua E corner of property coun billing as moving ogo Ince Educate from the Man prepared to be m When prepared to be m When prepared to be m	
Almost Claret out. - Creen Staining is mu units / Floors Ceiling the believed to be - Dim 4. called Sua E corner of properry own billing at moving of a Due Educat from the o builting supervision by means to be me	re B
- Creen Staining is man walls / Floor of Ceiling the Believe to Gel - Din H. entlet Sona E corner of property coun building at moving ego Dine Edundy from the o building represent to m Min previous in theset. S	
Leady Floory Ceiling the Believed to Ge - Dim H. called Sone E corner of property coun building and moving ego - 1205 Bar has been a co building appears to be m The previous interest. S	
Leally / Floory Ceiling the Believe to Ge - Dim H. called Son E corner of property coun building and moving ego - 1205 BAN has been a co building appears to be m The previous interest. S	per
- Jim 4. called Some E corner of property coun building at moving ego The Educate from the o building appears to be a the previous influence. S	. 0
- Din H. called Some E correct of property count building at moding pg - 1205 BAr has bee a building appears to be m from previous included. S	
Due Edunds from the of the property own	
5.1205 Bar his bis a common production of the second from the	Lunds
5 me Edwinds from the o Smiller, popular to be m Hom previous interest. S	- 6
5 me Edwinds from the o builting populars to be m	: prest
Sue Educado from tre o Building populario de m Flom previousis de l'ener. S	
Hom pressing bettered. S	A-11
Hom previous is the second is the second in the second is the second in the second is the second in	
Hom pressury intract. S	~ 3
	ne s
would reach out to	the 1
to ask him to Sta	Eno
the Brilling until	ach
denter beat	

ourse on site sed is alat or Shally to expess clarice grossy imperted int She mopoly own have analytical

Rite in the Rain.



August Zoly	D6 August 20114
715 SAV BC onside	Callacted 21 Laine Sumples for CRTG
730 Some security (MySDE) Ant	- Gr
Charles Coura assile	1 Lancis
	Z Admiral Busher
Gave Suc a Your of the BLD	3 hydrofishy
Ad Polnted out Aous	4 Buhalo &!! press
	5 Yellow POKILET
Suc Agreed in the We vished Assessment	le orange forKLIST
of the Bag	7 Roots Blower
	3 Dust collector
Sue Asked us to concernate our wife	G iveldes
Somple in the worth soon	10 mg & Floor Sweeps
where planting egupont appears to be	= 11 work Bands
a court	12 Compress 1
	13 Compress 2
Finished Collecting on Blat mull Songles	14 flager
•	3 Cutt of son
Collected window Glas Sangle from	16 Toleto sul
P57. Whe holes window to wall	17 Fair Baks Scall
	- 18 Broke
College Window Cank but holds	3 (9 Shar)
window pare in place	20 Dosta Blown
	21 125 HP motes
9	
	Rete in the Rain.

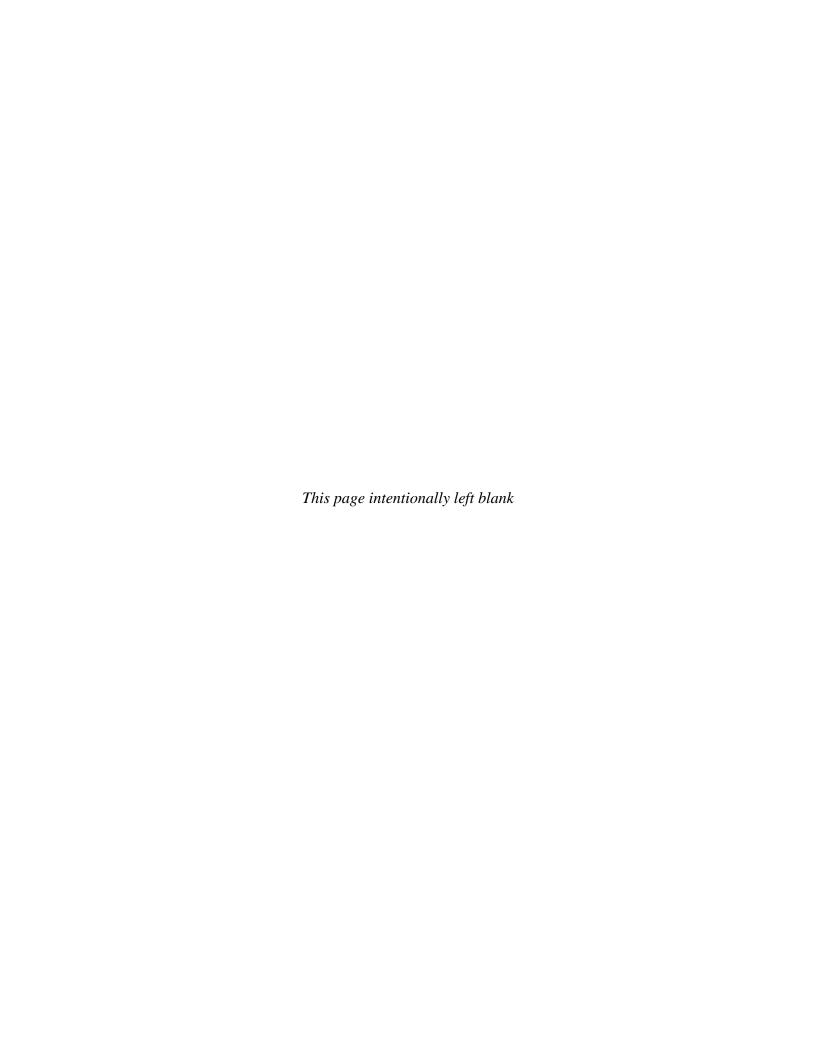


		®	EA Engineering, P.C.					Job. No. Client: NYSDEC 14907.15 Project Perfection Plating	Location: Watervliet, NY			
						r.c. Fechnol	ogv		WellID:			
			Li	Cici	ce and	r cermon	обу	Hand driven macro-core	· SB-1			
			LOG OF	SOIL B	ORING			Sampling Method: Sheet 1 of 1				
	Coordinate							2' Split Spoon	Market Committee			
		ırface Eleva	tion:	_					Drilling Finish			
	Casing Ele	vation: 1g Elevation		_				Water Level: Start Time:	Finish			
		Description		-		-		Date:	71514			
				-					7 1/2 / 7/5			
	Blow	Feet	Bor	Boring PID			USCS	S Surface Conditions:				
	Counts (140-lb)	Recvrd/Ft. Driven	Diag	Diagram		in Feet	Log					
		Diven	3333	1000		0		1000				
			2000					oncrete				
			***			1						
4			***			2		511-2: Rown ponce SAND)	00			
4811						-		51-2: Kwan coarse SAND)	0050			
	0		₩	****		3			1 (1)			
71W-70	11 4		^^^			4		7'-21 - 1 - 1 - 1 - C DA	16/ 1			
	1			1000		5		2-5 (very course angular GRA)	JIL Torce			
			- E			3		Clay, louse				
			∷≓	∃	12	6						
			E	3		7		3011	C 110			
			ΙE	=				5-4: Our ren course fugargola.	- (glaVEL			
			E	3		8		- and CUBILES thanks himled				
				3		9						
			E	3		10		The state of the s	,			
			E	Ⅎ∷		10		- 1-30 Right and gither (xA)	and			
			l∷i≡	3		11		westleved shale				
			E	$\exists ::$		12		Wareday 1010				
			E	3		40						
		_ 4		=		13						
				7 7 3		14						
		1	i			15			,			
The said						16		× *				
		1		171		17						
						18						
		-				19						
			1			20			-			
			1 1			21						
				1/4		21		The second secon				
						22		Water first encountered @				
		1	11			23		Refusal @ Y				
			1 1			24		Sample IDs	~			
						24		Sample IDS				
		3				25		1 1-215-11 (1-0) is 2- 700-	4-5)			
		-				26		1000 1000	· '/			
		1				27						
		1			-	27		MAN AND IN STA				
			1	0.0		28						
					-	29						
							F					
					E = E	30						
					12.75	31						
		J	I de	lw:		C 1	V- '	igton Date: 8-5-14				
			Logged			Charles	rarring					
			Drilling	Contrac	tor:	NA		Driller: <u>NA</u>				

LOG OF SOIL BORING Coordinates: Ground Surface Elevation: Casing Elevation: VC Casing Elevation: Deference Description: Blow Feet Counts Recvrd/Ft. Diagram (nom) in Los Weather:		3	EA Engineering, P.C.						Job. No. Client: NYSDEC 14907.15 Project Perfection Plating				Location: Watervliet, NY		
Does Does Does Does Does Does Does Does	EA Science and Technology						Techno	logy	Drilling Method:				DOS CWell ID:		
Spills Spoon Sheet 1 Water Level: Start Craing Elevation: Forence Description: Blow Secrety B. Boring PD Diagram Driven Blow Driven Borry B. Borry B	TOC OF SOIL BORNIC												PD1-56-C		
Water Level Start Value Level Start Time The Control Revision Blow Feet Boring Digerm (ppn) Digerm (ppn) 1 2 2 U'-7 France Conditions Temperature Temp													Sheet 1 of 1		
State Level Start									2' Split Spoon						
NC Caning Elevations Blow Feet Counts (ppm) (pp									Water Level					Finish	
Blow Counts Recriffly Diagram (ppm) IFD Diagram (ppm) In													Start	ritist	
Counts (Moll) Diagram (ppm) Feet Log	eference D	escription	ı:						Date:			/	TIE	NUZA	
Counts (Westler Bornes Diagram D			_				-						>17	1172	
(140-14) Driven Diagram (gram) Seet Log Temperature: 0	The second second			Borin	g	PID		USCS							
1						(ppm)			Weather:						
1	,		22.63	1	2000										
1							-		10-412 (0)	iere H					
3 3 4 4 5 5 7 8 8 8 9 9 10 10 11 11 12 12 13 13 14 14 15 15 16 16 17 17 18 18 19 20 21 22 Water first encountered ® 23 Refusal ® U1 24 Sample IDs PDT SR Z (0 -) (1 - 2) (2 · 3) (3 · 4) 25 26 27 29 30			₩	8	****		1								
3 3 4 4 5 5 7 8 8 8 9 9 10 10 11 11 12 12 13 13 14 14 15 15 16 16 17 17 18 18 19 20 21 22 Water first encountered ® 23 Refusal ® U1 24 Sample IDs PDT SR Z (0 -) (1 - 2) (2 · 3) (3 · 4) 25 26 27 29 30			₩	8	****		2		M 1 - 11.						
1			₩	8	***				141-71= KV	in run	onvel	SAMO	two	LP marsh	
1			₩	8	₩		3		1/1	1		1 1		26	
5 2 - 4 - Bornish grey ClAY trace si 6 - 7 - 8 8 - 9 9 10 10 11 11 12 12 13 13 14 14 15 15 16 16 17 18 18 19 20 20 21 22 Water first encountered ® 23 Refusal ® 41 24 Sample IDs DDT SR - 2 (0 -) (1 - 2) (2 - 3) (3 - 4) 25 25 26 26 27 27 28 28 29 29 30 0	-		***	8	****		1		700	angula	- Guar	el, 100	i'll he	sin-caes)	
6 Create and reflected ship 8 8 9 9 10 11 11 12 13 13 14 14 15 16 16 17 18 19 20 21 22 Water first encountered ® 23 Refusal ® U1 24 Sample IDs PDT - SB - Z (0 - N(1 - Z) (2 · 3) (2							4			J					
6 Cyana and Lactered show 8 8 9 9 10 11 12 13 14 14 15 16 17 18 19 20 21 22 Water first encountered @ 23 Refusal @ U 24 Sample IDs PDT SB 2 (0 -)(1 · 2)(2 · 3)(2 · d) 25 26 27 28 29 30							5		-1-11-D	1		11/15	i	1 1	
Cyane and included show				E				4	1-50	unith	grey	CLITY	trace	Surgelau	
7				E			ь		<u></u>	1 / m	well have	flered	1.10		
9 9 10 10 11 11 12 13 13 14 14 15 15 16 16 17 18 18 19 20 21 22 Water first encountered @ 23 Refusal @ \(\) 24 Sample IDs \(\) 25 25 26 26 27 28 29 30							7		7		C		10.00		
9 9 10 10 11 11 12 13 13 14 14 15 15 16 16 17 18 18 19 20 21 22 Water first encountered @ 23 Refusal @ 41 24 Sample IDs DT - SB - Z (0 ~ M · Z) / 2 · 3 / 3 / 2 · 4 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2							0	1							
10							8								
11							9								
11							10								
12							10								
13							11								
13							2 1 1 1								
14							12		-						
15							13								
15						1									
16 17 18 19 20 21 22 Water first encountered @						-	14								
17		HY.				7	15								
17															
18				7		-	16								
19					1		17								
19		- 1													
20 21 22 Water first encountered @ 23 Refusal @ 24 Sample IDs PDT SR - Z(0 ~)(1 - Z)(2 · 3)(2 · 4) 25 26 27 28 29 30							18								
21 22 Water first encountered @							19		10.						
21 22 Water first encountered ® 23 Refusal ® \(\) \\ 24 Sample IDs \(\) \(
22 Water first encountered @							20		1						
22 Water first encountered @							21								
23 Refusal @ U) 24 Sample IDS POI - SR - Z (0 ~) (1 - Z) (2 · 3) (3 · 2) 25 27 U 5 5 28 29 30							4 - 1 -								
24 Sample IDs PDI SR - Z(0 -)(1 - Z)(2 · 3)(7 - 1) 25						-	22		Water firs <mark>t e</mark> ncountered @	_					
24 Sample IDs PDI SR - Z(0 -)(1 - Z)(2 · 3)(7 - 1) 25							23		Refusal@ 11)						
25 26 27 28 29 30			e I						9		00/		1	1	
25 26 27 28 29 30							24		Sample IDs DIDT	SP-7	(0-i)	1-27/5	7.715	7-41	
26 27 28 29 30							25		1 1	10) 6	-1-1/1	1 0/12	-14	> 1/	
27 L 55 28 29 30															
29 30							26		1.10	-					
30							27		166	5					
30) /					
30							28								
30							29								
		111							1						
31		- 11					30								
					-		31								
						1117									
Logged by: Charles Yarrington Date: Sr5-14			Logo	ed by:	,		Charles V	'arringto	วท์		Date:	8-5-14	/		
														-	
Drilling Contractor: NA Driller: NA			Unlli	ing Co	ntracto	or:	NA			_	Driller:	NA		-	

Appendix B

Analytical Results



HC Report Of Analysis

Client: EA Engineering, Science & Technology HC Project #: 4080808

Project: Perfection Plating Collection Date: 8/5/2014 Sample ID: PDI-SB-1 (0-1) Lab#: AC80234-001 Receipt Date: 8/8/2014 Matrix: Soil % Solids SM2540G DF Units RL Result Analyte 95 % Solids 1 percent Cr (Hexavalent) 7196A Analyte DF Units RL Result ND Cr (Hexavalent) 1 mg/kg 1.1 Eh DF **Units** RL Analyte Result 1 330 Eh mν pH 9040C/9045D DF Analyte Units RL Result рΗ 1 ph 8.6 Sample ID: PDI-SB-1 (4-5) Collection Date: 8/5/2014 Lab#: AC80234-002 Receipt Date: 8/8/2014 Matrix: Soil % Solids SM2540G Analyte DF Units RL Result % Solids 1 percent 88 Cr (Hexavalent) 7196A Analyte DF Units RL Result 1 Cr (Hexavalent) 1.1 19 mg/kg Eh DF Analyte Units RL Result Eh 1 340 mν pH 9040C/9045D Analyte DF Units RL Result pН 1 ph 8.1 Sample ID: PDI-SB-2 (0-1) Collection Date: 8/5/2014 Lab#: AC80234-003 Receipt Date: 8/8/2014 Matrix: Soil % Solids SM2540G DF Analyte Units RLResult % Solids 1 percent 93 Cr (Hexavalent) 7196A DF Units RL **Analyte** Result Cr (Hexavalent) 1 1.1 2.7 mg/kg Eh Analyte DF Units RL Result 1 mv 280 pH 9040C/9045D DF Analyte Units RLResult

NOTE: Soil Results are reported to Dry Weight

Project #: 4080808

ph

1

9.0

ample ID: PDI-SB-2 (3-4) Lab#: AC80234-004 Matrix: Soil				n Date: 8/5/2014 t Date: 8/8/2014
% Solids SM2540G				
Analyte	DF	Units	RL	Result
% Solids	1	percent		88
Cr (Hexavalent) 7196A				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/kg	1.1	1.6
Eh				
Analyte	DF	Units	RL	Result
Eh	1	mv		180
pH 9040C/9045D				
Analyte	DF	Units	RL	Result
рН	1	ph		9.1
ample ID: PDI-NORTH SUMP				n Date: 8/5/2014
Lab#: AC80234-005			Receip	t Date: 8/8/2014
Matrix: Soil				
% Solids SM2540G		11.7		
Analyte	DF	Units	RL	Result
% Solids	1	percent		74
Cr (Hexavalent) 7196A	DF	Units	RL	Decut
Analyte				Result
Cr (Hexavalent) Eh	1	mg/kg	1.4	32
Analyte	DF	Units	RL	Result
Eh	1	mv	NL .	200
pH 9040C/9045D	·	IIIV		200
Analyte	DF	Units	RL	Result
pH	1	ph		8.8
ample ID: PDI-SOUTH SUMP	·	P	Callagtian	
Lab#: AC80234-006				n Date: 8/5/2014 t Date: 8/8/2014
Matrix: Soil			Neceip	1 Date: 0/0/2014
% Solids SM2540G				
Analyte	DF	Units	RL	Result
% Solids	1	percent		67
Cr (Hexavalent) 7196A	<u> </u>	Postoria		
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/kg	1.5	4.3
Eh				
Analyte	DF	Units	RL	Result
Eh	1	mv		200
pH 9040C/9045D				
Analyte	DF	Units	RL	Result
рН	1	ph		8.3
ample ID: PAINT STEEL-B5 Lab#: AC80234-007 Matrix: Concrete				n Date: 8/5/2014 t Date: 8/8/2014

Sample ID: PAINT STEEL-B5 Collection Date: 8/5/2014 Lab#: AC80234-007 Receipt Date: 8/8/2014 Matrix: Concrete % Solids SM2540G DF Units RL Analyte Result % Solids 1 percent 97 PCB 8082 DF Units RL Result Analyte **Aroclor (Total)** 1 mg/kg 0.26 0.81 Aroclor-1016 1 mg/kg 0.26 ND Aroclor-1221 1 mg/kg 0.26 ND ND Aroclor-1232 1 mg/kg 0.26 Aroclor-1242 1 mg/kg 0.26 0.81 Aroclor-1248 1 mg/kg 0.26 ND Aroclor-1254 1 mg/kg 0.26 ND Aroclor-1260 1 0.26 ND mg/kg Aroclor-1262 1 0.26 ND mg/kg Aroclor-1268 0.26 ND 1 mg/kg Sample ID: PAINT STEEL-B8 Collection Date: 8/5/2014 Lab#: AC80234-008 Receipt Date: 8/8/2014 Matrix: Concrete

% Solids SM2540G DF Units RL Result Analyte % Solids 1 percent 95 **PCB 8082**

Analyte	DF	Units	RL	Result	
Aroclor (Total)	1	mg/kg	0.026	0.77	
Aroclor-1016	1	mg/kg	0.026	ND	
Aroclor-1221	1	mg/kg	0.026	ND	
Aroclor-1232	1	mg/kg	0.026	ND	
Aroclor-1242	1	mg/kg	0.026	0.56	
Aroclor-1248	1	mg/kg	0.026	ND	
Aroclor-1254	1	mg/kg	0.026	ND	
Aroclor-1260	1	mg/kg	0.026	ND	
Aroclor-1262	1	mg/kg	0.026	0.21	
Aroclor-1268	1	mg/kg	0.026	ND	

Sample ID: EXPANSION JOINT B6 Collection Date: 8/5/2014 Lab#: AC80234-009 Receipt Date: 8/8/2014

Matrix: Concrete

% Solids SM2540G					
Analyte	DF	Units	RL	Result	
% Solids	1	percent		97	
PCB 8082					
Analyte	DF	Units	RL	Result	
Aroclor (Total)	1	mg/kg	0.26	7.1	

Aroclor (Total)	1	mg/kg	0.26	7.1	
Aroclor-1016	1	mg/kg	0.26	ND	
Aroclor-1221	1	mg/kg	0.26	ND	
Aroclor-1232	1	mg/kg	0.26	ND	
Aroclor-1242	1	mg/kg	0.26	1.4	
Aroclor-1248	1	mg/kg	0.26	ND	
Aroclor-1254	1	mg/kg	0.26	ND	
Aroclor-1260	1	mg/kg	0.26	5.7	
Aroclor-1262	1	mg/kg	0.26	ND	
Aroclor-1268	1	mg/kg	0.26	ND	

NOTE: Soil Results are reported to Dry Weight 4080808 Project #: Page 3 of 17 Sample ID: EXPANSION JOINT A7

Lab#: AC80234-010 Matrix: Concrete

Collection Date: 8/5/2014 Receipt Date: 8/8/2014

% Solids SM2540G					
Analyte	DF	Units	RL	Result	
% Solids	1	percent		94	
PCB 8082					
Analyte	DF	Units	RL	Result	
Aroclor (Total)	1	mg/kg	0.27	11.4	
Aroclor-1016	1	mg/kg	0.27	ND	
Aroclor-1221	1	mg/kg	0.27	ND	

Aroclor-1232 mg/kg 0.27 ND Aroclor-1242 mg/kg 0.27 1.4 Aroclor-1248 1 mg/kg 0.27 ND Aroclor-1254 1 mg/kg 0.27 ND Aroclor-1260 1 0.27 10 mg/kg Aroclor-1262 1 0.27 ND mg/kg Aroclor-1268 0.27 ND 1 mg/kg

Sample ID: CONCRETE FLOOR A6 Collection Date: 8/5/2014
Lab#: AC80234-011 Receipt Date: 8/8/2014

Matrix: Concrete

-				
% Solids SM2540G				
Analyte	DF	Units	RL	Result
% Solids	1	percent		86
Cr (Hexavalent) 7196A				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/kg	1.2	1.9
Cyanide (Soil/Waste) 9012B				
Analyte	DF	Units	RL	Result
Cyanide	4	mg/kg	1.1	20
Eh				
Analyte	DF	Units	RL	Result
Eh	1	mv		200
Mercury (TCLP) 7470A				
Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00070	ND
pH 9040C/9045D				
Analyte	DF	Units	RL	Result
рН	1	ph		8.8
TCLP Metals 6010				
Analyte	DF	Units	RL	Result
Arsenic	1	mg/l	0.10	ND
Barium	1	mg/l	0.25	0.41
Cadmium	1	mg/l	0.050	0.83
Chromium	1	mg/l	0.10	ND
Lead	1	mg/l	0.050	ND
Nickel	1	mg/l	0.10	ND
	·	.,		
Selenium	1	mg/l	0.10	ND

Sample ID: CONCRETE FLOOR A8

Lab#: AC80234-012 Matrix: Concrete Collection Date: 8/5/2014 Receipt Date: 8/8/2014 Sample ID: CONCRETE FLOOR A8

Lab#: AC80234-012 Matrix: Concrete Collection Date: 8/5/2014 Receipt Date: 8/8/2014

% So	lids SM2540G				
	Analyte	DF	Units	RL	Result
	% Solids	1	percent		95
Cr (H	exavalent) 7196A				
	Analyte	DF	Units	RL	Result
	Cr (Hexavalent)	1	mg/kg	1.1	3.7
Cyan	ide (Soil/Waste) 9012B				
	Analyte	DF	Units	RL	Result
	Cyanide	15.385	mg/kg	3.9	67
Eh					
	Analyte	DF	Units	RL	Result
	Eh	1	mv		-19
Merc	ury (TCLP) 7470A				
	Analyte	DF	Units	RL	Result
	Mercury	1	mg/l	0.00070	ND
pH 90	040C/9045D		···ສ [,] ·	0.30010	
<u>• </u>	Analyte	DF	Units	RL	Result
	рН	1	ph		12
TCLF	P Metals 6010	•	F		. -
	Analyte	DF	Units	RL	Result
	Arsenic	1	mg/l	0.10	ND
	Barium	1	mg/l	0.10 0.25	0.31
	Cadmium	1	mg/l	0.050	ND
	Chromium	1	mg/l	0.10	0.30
	Lead	1	mg/l	0.050	ND
	Nickel	1	mg/l	0.10	0.11
	Selenium	1	mg/l	0.10	ND
	Silver	1	mg/l	0.050	ND
nple ID: CC	NCRETE FLOOR A2			Collection D	Date: 8/6/2014
	80234-013			Receipt D	Date: 8/8/2014
Matrix: Co	ncrete				
% So	lids SM2540G				
	Analyte	DF	Units	RL	Result
	% Solids	1	percent		92
Cr (H	exavalent) 7196A				
	Analyte	DF	Units	RL	Result
	Cr (Hexavalent)	1	mg/kg	1.1	11
Cyan	ide (Soil/Waste) 9012B				
	Analyte	DF	Units	RL	Result
	Cyanide	1	mg/kg	0.26	0.67
Eh					
	Analyte	DF	Units	RL	Result
	Eh	1	mv		72
Merc	ury (TCLP) 7470A				
	Analyte	DF	Units	RL	Result
	Mercury	1	mg/l	0.00070	ND
pH 90	040C/9045D	·	er .		
<u> </u>					
	Analyte	DF	Units	RL	Result

Project #: 4080808

Page 5 of 17

NOTE: Soil Results are reported to Dry Weight

Sample ID: CONCRETE FLOOR A2			Collection Date:	8/6/2014
Lab#: AC80234-013			Receipt Date:	
Matrix: Concrete				
рН	1	ph		11
TCLP Metals 6010				
Analyte	DF	Units	RL	Result
Arsenic	1	mg/l	0.10	ND
Barium	1	mg/l	0.25	0.51
Cadmium	1	mg/l	0.050	ND
Chromium	1	mg/l	0.10	0.18
Lead	1	mg/l	0.050	ND
Nickel	1	mg/l	0.10	0.10
Selenium	1	mg/l	0.10	ND
Silver	1	mg/l	0.050	ND
Sample ID: CONCRETE FLOOR A			Collection Date:	8/6/2014
Lab#: AC80234-014			Receipt Date:	8/8/2014
Matrix: Concrete				
% Solids SM2540G				
Analyte	DF	Units	RL	Result
% Solids	1	percent		91
Cr (Hexavalent) 7196A				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	50	mg/kg	55	940
Cyanide (Soil/Waste) 9012B		Gra		
Analyte	DF	Units	RL	Result
Cyanide	1	mg/kg	0.26	2.3
Eh		11?	- Di	DI
Analyte	DF	Units	RL	Result
Eh	1	mv		58
Mercury (TCLP) 7470A				
Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00070	ND
pH 9040C/9045D				
Analyte	DF	Units	RL	Result
pH	1	ph		12
TCLP Metals 6010	•	P		
	DF	Units	RL	Result
Analyte				
Arsenic Barium	1	mg/l	0.10	ND
Barium Cadmium	1 1	mg/l mg/l	0.25 0.050	0.47 0.072
Chromium	1	mg/l	0.10	0.07 <i>2</i> 27
Lead	<u></u>	mg/l	0.050	ND
Nickel	1	mg/l	0.10	ND
Selenium	1	mg/l	0.10	ND
Silver	1	mg/l	0.050	ND
Sample ID: BLOCKWALL A6	_		Collection Date:	8/6/2014
Lab#: AC80234-015			Receipt Date:	
Matrix: Concrete				
% Solids SM2540G				
Analyte	DF	Units	RL	Result
% Solids	1			93
	<u> </u>	percent		33
Cr (Hexavalent) 7196A	DF	Hair-	DI .	Doord
Analyte	DF	Units	RL	Result
NOTE: Soil Results are reported to Dry Weight	Project #:	4080808		Page 6 of 17

mple ID: BLOCKWALL A6			Collection D	ate: 8/6/2014
Lab#: AC80234-015				ate: 8/8/2014
Matrix: Concrete				
Cr (Hexavalent)	1	mg/kg	1.1	2.0
Cyanide (Soil/Waste) 9012B				
Analyte	DF	Units	RL	Result
Cyanide	1	mg/kg	0.26	1.4
Eh				
Analyte	DF	Units	RL	Result
Eh	1	mv		190
Mercury (TCLP) 7470A				
Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00070	0.018
pH 9040C/9045D		mg/i	0.00070	0.010
-	DE	l luita	DI.	Decult
Analyte	DF	Units .	RL	Result
pH	1	ph		8.3
TCLP Metals 6010				
Analyte	DF	Units	RL	Result
Arsenic	1	mg/l	0.10	ND
Barium	1	mg/l	0.25	0.26
Cadmium Chromium	1	mg/l	0.050 0.10	ND ND
Lead	1 1	mg/l mg/l	0.050	ND ND
Nickel	1	mg/l	0.10	2.4
Selenium	1	mg/l	0.10	ND
Silver	1	mg/l	0.050	ND
ple ID: BLOCKWALL A8			Collection D	ate: 8/6/2014
Lab#: AC80234-016				ate: 8/8/2014
Matrix: Concrete			receipt b	atc. 0/0/2014
% Solids SM2540G				
	DF	Units	RL	Result
Analyte			KL	
% Solids	1	percent		94
Cr (Hexavalent) 7196A				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	50	mg/kg	53	220
- \	30			
Cyanide (Soil/Waste) 9012B	30	<u> </u>		
	DF	Units	RL	Result
Cyanide (Soil/Waste) 9012B Analyte		Units		
Cyanide (Soil/Waste) 9012B	DF		RL 0.26	Result 1.4
Cyanide (Soil/Waste) 9012B Analyte Cyanide Eh	DF 1	Units mg/kg	0.26	1.4
Cyanide (Soil/Waste) 9012B Analyte Cyanide Eh Analyte	DF 1 DF	Units mg/kg Units		1.4 Result
Cyanide (Soil/Waste) 9012B Analyte Cyanide Eh Analyte Eh	DF 1	Units mg/kg	0.26	1.4
Cyanide (Soil/Waste) 9012B Analyte Cyanide Eh Analyte Eh Mercury (TCLP) 7470A	DF 1 DF 1	Units mg/kg Units mv	0.26 RL	1.4 Result 180
Cyanide (Soil/Waste) 9012B Analyte Cyanide Eh Analyte Eh Mercury (TCLP) 7470A Analyte	DF 1 DF 1	Units mg/kg Units mv Units	0.26 RL	1.4 Result 180 Result
Cyanide (Soil/Waste) 9012B Analyte Cyanide Eh Analyte Eh Mercury (TCLP) 7470A Analyte Mercury	DF 1 DF 1	Units mg/kg Units mv	0.26 RL	1.4 Result 180
Cyanide (Soil/Waste) 9012B Analyte Cyanide Eh Analyte Eh Mercury (TCLP) 7470A Analyte	DF 1 DF 1	Units mg/kg Units mv Units	0.26 RL	1.4 Result 180 Result
Cyanide (Soil/Waste) 9012B Analyte Cyanide Eh Analyte Eh Mercury (TCLP) 7470A Analyte Mercury	DF 1 DF 1	Units mg/kg Units mv Units	0.26 RL	1.4 Result 180 Result
Cyanide (Soil/Waste) 9012B Analyte Cyanide Eh Analyte Eh Mercury (TCLP) 7470A Analyte Mercury pH 9040C/9045D	DF 1 DF 1 DF 1	Units mg/kg Units mv Units my	0.26 RL RL 0.00070	1.4 Result 180 Result 0.0011
Cyanide (Soil/Waste) 9012B Analyte Cyanide Eh Analyte Eh Mercury (TCLP) 7470A Analyte Mercury pH 9040C/9045D Analyte	DF 1 DF 1 DF 1 DF	Units mg/kg Units mv Units mg/l	0.26 RL RL 0.00070	Result 180 Result 0.0011 Result
Cyanide (Soil/Waste) 9012B Analyte Cyanide Eh Analyte Eh Mercury (TCLP) 7470A Analyte Mercury pH 9040C/9045D Analyte pH TCLP Metals 6010	DF 1 DF 1 DF 1 DF	Units mg/kg Units mv Units mg/l	0.26 RL RL 0.00070	Result 180 Result 0.0011 Result
Cyanide (Soil/Waste) 9012B Analyte Cyanide Eh Analyte Eh Mercury (TCLP) 7470A Analyte Mercury pH 9040C/9045D Analyte pH TCLP Metals 6010 Analyte	DF 1 DF 1 DF 1 DF 1 DF	Units mg/kg Units mv Units mg/l Units ph	0.26 RL RL 0.00070 RL	Result 1.4 Result 180 Result 0.0011 Result 8.7
Cyanide (Soil/Waste) 9012B Analyte Cyanide Eh Analyte Eh Mercury (TCLP) 7470A Analyte Mercury pH 9040C/9045D Analyte pH TCLP Metals 6010 Analyte Arsenic	DF 1 DF 1 DF 1 DF 1	Units mg/kg Units mv Units mg/l Units ph Units	0.26 RL RL 0.00070 RL RL 0.10	Result 0.0011 Result 8.7 Result ND
Cyanide (Soil/Waste) 9012B Analyte Cyanide Eh Analyte Eh Mercury (TCLP) 7470A Analyte Mercury pH 9040C/9045D Analyte pH TCLP Metals 6010 Analyte	DF 1 DF 1 DF 1 DF 1 DF	Units mg/kg Units mv Units mg/l Units ph	0.26 RL RL 0.00070 RL	Result 0.0011 Result 8.7

ample ID: BLOCKWALL A8				Date: 8/6/2014
Lab#: AC80234-016			Receipt D	Date: 8/8/2014
Matrix: Concrete Chromium			0.10	4.4
Chromium Lead	1 1	mg/l mg/l	0.10	4.4 ND
Nickel	1	mg/l	0.10	0.50
Selenium	1	mg/l	0.10	ND
Silver	1	mg/l	0.050	ND
ample ID: OUTSIDE BLACKWALL A8 Lab#: AC80234-017				Date: 8/6/2014 Date: 8/8/2014
Matrix: Concrete				
% Solids SM2540G				
Analyte	DF	Units	RL	Result
% Solids	1	percent		94
Cr (Hexavalent) 7196A				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	50	mg/kg	53	170
Cyanide (Soil/Waste) 9012B				
Analyte	DF	Units	RL	Result
Cyanide	1	mg/kg	0.26	0.95
Eh		mg/ng	0.20	0.30
Analyte	DF	Units	RL	Result
			NL .	
Eh	1	mv		170
Mercury (TCLP) 7470A				
Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00070	ND
pH 9040C/9045D				
Analyte	DF	Units	RL	Result
рН	1	ph		8.8
TCLP Metals 6010				
Analyte	DF	Units	RL	Result
Arsenic	1	mg/l	0.10	ND
Barium	1	mg/l	0.25	ND
Cadmium	1	mg/l	0.050	ND
Chromium	1	mg/l	0.10	7.5
Lead	1	mg/l	0.050	ND
Nickel Salanium	1	mg/l	0.10	0.18 ND
Selenium Silver	1	mg/l mg/l	0.10 0.050	ND ND
	1	1119/1		
mple ID: BLOCKWALL A9 Lab#: AC80234-018				Date: 8/6/2014
Matrix: Concrete			Keceipt L	Date: 8/8/2014
% Solids SM2540G				
Analyte	DF	Units	RL	Result
% Solids	<u> </u>		IXL.	
% Solids Cr (Hexavalent) 7196A	1	percent		96
	DF	Unito	DI	Popul4
Analyte Cr (Hoveyclont)		Units	RL 10	Result
Cr (Hexavalent) Cyanide (Soil/Waste) 9012B	1	mg/kg	1.0	2.1
	DF	Unito	DI	Popul4
Analyte	DΕ	Units	RL	Result

Sample ID: BLOCKWALL A9

Lab#: AC80234-018

Matrix: Concrete

Collection Date: 8/6/2014

Receipt Date: 8/8/2014

Matrix: Concrete					
Eh					
Analyte		DF	Units	RL	Result
Eh		1	mv		270
Mercury (TCLP) 74	470A				
Analyte		DF	Units	RL	Result
Mercury		1	mg/l	0.00070	0.0028
pH 9040C/9045D		<u> </u>	9,.	0.000.0	0.0020
<u>-</u>		DE	l luita	DI.	Decult
Analyte		DF	Units	RL	Result
pH		1	ph		8.7
TCLP Metals 6010					
Analyte		DF	Units	RL	Result
Arsenic		1	mg/l	0.10	ND
Barium		1	mg/l	0.25	0.28
Cadmium		1	mg/l	0.050	ND
Chromium Lead		<u>1</u> 1	mg/l mg/l	0.10 0.050	ND ND
Lead Nickel		1	mg/l	0.050 0.10	0.19
Selenium		1	mg/l	0.10	ND
Silver		1	mg/l	0.050	ND
ample ID: BLOCKWALL	A2			Collection D	ate: 8/6/2014
Lab#: AC80234-019	AZ				ate: 8/8/2014
Matrix: Concrete				Receipt D	ale. 0/0/2014
-					
% Solids SM25400					
Analyte		DF	Units	RL	Result
% Solids		1	percent		99
Cr (Hexavalent) 71	96A				
Analyte		DF	Units	RL	Result
Cr (Hexavale	ent)	1	mg/kg	1.0	ND
Cyanide (Soil/Was	te) 9012B				
Analyte		DF	Units	RL	Result
Cyanide		1	mg/kg	0.24	ND
Eh			3 3		
Analyte	_	DF	Units	RL	Result
				IV.L	
Eh (TOLD) =		1	mv		270
Mercury (TCLP) 74	170A				
Analyte		DF	Units	RL	Result
Mercury		1	mg/l	0.00070	ND
pH 9040C/9045D					
Analyte		DF	Units	RL	Result
рН		1	ph		8.4
TCLP Metals 6010					
Analyte		DF	Units	RL	Result
Arsenic		1	mg/l	0.10	ND
Arsenic Barium		1	mg/l	0.10 0.25	0.27
Cadmium		1	mg/l	0.050	ND
Chromium		1	mg/l	0.10	ND
Lead		1	mg/l	0.050	ND
Nickel		1	mg/l	0.10	0.60
Selenium		1	mg/l	0.10	ND
Silver		1	mg/l	0.050	ND

Sample ID: BLOCKWALL A3 Collection Date: 8/6/2014 Lab#: AC80234-020 Receipt Date: 8/8/2014

Matrix

		. 1000.pt 2	ator 6/6/2014
DF	Units	RL	Result
1	percent		96
DF	Units	RL	Result
50	mg/kg	52	370
DF	Units	RL	Result
1	mg/kg	0.25	7.5
DF	Units	RL	Result
1	mv		260
DF	Units	RL	Result
1	mg/l	0.00070	0.0047
DF	Units	RL	Result
1	ph		8.5
DF	Units	RL	Result
1	mg/l	0.10	ND
1	mg/l	0.25	0.27
1	mg/l	0.050	ND
1	mg/l	0.10	45
1	mg/l	0.050	ND
1	mg/l	0.10	3.3
1	mg/l	0.10	ND
1	mg/l	0.050	ND
		Collection D	ate: 8/6/2014
			0,0,=01T
DF	Units	RL	Result
	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 percent DF Units 50 mg/kg DF Units 1 mg/kg DF Units 1 mv DF Units 1 mg/l 1 mg/l	DF

Sample ID: TANK EXCUVATION SOIL	Collection Date: 8/6/2014
Lab#: AC80234-021	Receipt Date: 8/8/2014
Matrix: Soil	•

% Solids SM2540G				
Analyte	DF	Units	RL	Result
% Solids	1	percent		97
Cr (Hexavalent) 7196A				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	50	mg/kg	52	370
≣h				
Analyte	DF	Units	RL	Result
Eh	1	mv		270
Mercury (TCLP) 7470A				
Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00070	ND
oH 9040C/9045D				
Analyte	DF	Units	RL	Result
pH	1	ph		7.6
CLP Metals 6010				
Analyte	DF	Units	RL	Result

Sample ID: TANK EXCUVATION SOIL			Collection Date:	8/6/2014
Lab#: AC80234-021			Receipt Date:	8/8/2014
Matrix: Soil				
Arsenic	1	mg/l	0.10	ND
Barium	1	mg/l	0.25	ND ND
Cadmium Chromium	1 1	mg/l mg/l	0.050 0.10	ND 13
Lead	 1	mg/l	0.050	ND
Nickel	1	mg/l	0.10	ND
Selenium	1	mg/l	0.10	ND
Silver	1	mg/l	0.050	ND
Sample ID: BLOCKWALL B2			Collection Date:	8/6/2014
Lab#: AC80234-022			Receipt Date:	8/8/2014
Matrix: Concrete			·	
% Solids SM2540G				
Analyte	DF	Units	RL	Result
% Solids	1	percent		99
Cr (Hexavalent) 7196A				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/kg	1.0	3.6
Cyanide (Soil/Waste) 9012B				
Analyte	DF	Units	RL	Result
Cyanide	1	mg/kg	0.24	0.84
Eh	•		 -	
Analyte	DF	Units	RL	Result
Eh	1	mv	- · -	230
Mercury (TCLP) 7470A	ı	1114		230
Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00070	ND
pH 9040C/9045D	ı .	mg/i	0.00070	ND
·	DE	Unita	DI	Desuit
Analyte	DF	Units	RL	Result
pH	1	ph		8.2
TCLP Metals 6010				
Analyte	DF	Units	RL	Result
Arsenic	1	mg/l	0.10	ND
Barium	1	mg/l	0.25	0.29
Cadmium	1	mg/l	0.050	ND
Chromium	1	mg/l	0.10	ND
Lead Nickel	1 1	mg/l mg/l	0.050 0.10	ND 0.22
NICKEI Selenium	1	mg/l mg/l	0.10 0.10	0.22 ND
Silver	1	mg/l	0.050	ND
Sample ID: BLOCKWALL B4			Collection Date:	
Lab#: AC80234-023			Receipt Date:	
Matrix: Concrete			Noocipi Dale.	. 0/0/2014
% Solids SM2540G				
Analyte	DF	Units	RL	Result
% Solids	1	percent	NE.	99
Cr (Hexavalent) 7196A	ı	percent		33
OI (HEAGVAIGHT) / 130A	DF	Units	RL	Result
Analyta		Units	RL.	result
Analyte Cr. (Howardont)		malle	1.0	1.4
Cr (Hexavalent)	1	mg/kg	1.0	1.4
Cr (Hexavalent) Cyanide (Soil/Waste) 9012B	1			
Cr (Hexavalent)		mg/kg Units 4080808	1.0 RL	1.4 Result Page 11 of 17

ample ID: BLOCKWALL B4				ate: 8/6/2014
Lab#: AC80234-023			Receipt D	ate: 8/8/2014
Matrix: Concrete	4	ma/lea	0.07	24
Cyanide Eh	4	mg/kg	0.97	21
	DF	Units	RL	Result
Analyte			KL	
Eh	1	mv		230
Mercury (TCLP) 7470A		11.74		
Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00070	0.021
pH 9040C/9045D				
Analyte	DF	Units	RL	Result
рН	1	ph		9.0
TCLP Metals 6010				
Analyte	DF	Units	RL	Result
Arsenic	1	mg/l	0.10	ND
Barium Cadmium	1 1	mg/l mg/l	0.25 0.050	0.28 ND
Chromium	1	mg/l	0.030	ND ND
Lead	1	mg/l	0.050	ND
Nickel	1	mg/l	0.10	6.9
Selenium Silver	1 1	mg/l mg/l	0.10 0.050	ND ND
		mg/i		
ample ID: BLOCKWALL B7				ate: 8/6/2014
Lab#: AC80234-024 Matrix: Concrete			Receipt D	ate: 8/8/2014
% Solids SM2540G				
Analyte	DF	Units	RL	Result
% Solids	1	percent		99
Cr (Hexavalent) 7196A				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/kg	1.0	5.3
Cyanide (Soil/Waste) 9012B				
Analyte	DF	Units	RL	Result
Cyanide	1	mg/kg	0.24	0.70
Eh				
Analyte	DF	Units	RL	Result
Eh	1	mv		240
Mercury (TCLP) 7470A				
Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00070	0.0020
pH 9040C/9045D				
Analyte	DF	Units	RL	Result
рН	1	ph		8.4
TCLP Metals 6010		-		
Analyte	DF	Units	RL	Result
Arsenic	1	mg/l	0.10	ND
Barium	1	mg/l	0.10	0.37
Cadmium	1	mg/l	0.050	ND
Chromium	1	mg/l	0.10	ND ND
Lead Nickel	1 1	mg/l mg/l	0.050 0.10	ND 0.34
Selenium	1 1	mg/l	0.10	ND
	· · · · · · · · · · · · · · · · · · ·	·er·		

sample ID: BLOCKWALL B7			Collection Date:	8/6/2014
Lab#: AC80234-024			Receipt Date:	8/8/2014
Matrix: Concrete				
Silver	1	mg/l	0.050	ND
ample ID: BLOCKWALL A9 OFFICE			Collection Date:	8/6/2014
Lab#: AC80234-025			Receipt Date:	8/8/2014
Matrix: Concrete				
% Solids SM2540G				
Analyte	DF	Units	RL	Result
% Solids	1	percent		89
Cr (Hexavalent) 7196A				
	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/kg	1.1	ND
Cyanide (Soil/Waste) 9012B				
Analyte	DF	Units	RL	Result
Cyanide	1	mg/kg	0.27	1.8
Eh	<u> </u>	-99		
Analyte	DF	Units	RL	Result
Eh	1	mv		210
Mercury (TCLP) 7470A				2.0
Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00070	0.00089
pH 9040C/9045D	· · · · · · · · · · · · · · · · · · ·	mg/i	0.00070	0.00003
Analyte	DF	Units	RL	Result
			KL	
pH	1	ph		8.6
TCLP Metals 6010				
Analyte	DF	Units	RL	Result
Arsenic Barium	1	mg/l	0.10 0.25	ND ND
Cadmium	1	mg/l mg/l	0.25	ND
Chromium	1	mg/l	0.10	ND
Lead	1	mg/l	0.050	ND
Nickel	1	mg/l	0.10	0.83
Selenium	1	mg/l	0.10	ND
Silver	1	mg/l	0.050	ND
ample ID: BLOCKWALL B9 BOILER			Collection Date:	8/6/2014
Lab#: AC80234-026			Receipt Date:	8/8/2014
Matrix: Concrete			·	
% Solids SM2540G				
Analyte	DF	Units	RL	Result
% Solids	1	percent		99
Cr (Hexavalent) 7196A				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/kg	1.0	11
Cyanide (Soil/Waste) 9012B		_ _ _		
Analyte	DF	Units	RL	Result
Cyanide	1	mg/kg	0.24	0.56
	-	J-10	-	
Eh				
	DF	Units	RL	Result

Collection Date: 8/6/2014 Sample ID: BLOCKWALL B9 BOILER Lab#: AC80234-026 Receipt Date: 8/8/2014 Matrix: Concrete Mercury (TCLP) 7470A DF Units RLAnalyte Result Mercury 1 mg/l 0.00070 0.0023 pH 9040C/9045D DF Analyte Units RL Result рΗ 1 ph 9.2 **TCLP Metals 6010** Analyte DF Units RL Result 0.10 ND Arsenic 1 mg/l **Barium** 1 mg/l 0.25 0.32 Cadmium 0.050 ND 1 mg/l Chromium 1 mg/l 0.10 0.15 Lead 1 0.050 ND mg/l Nickel 1 0.23 mg/l 0.10 Selenium 1 0.10 ND mg/l Silver 0.050 ND 1 mg/l Sample ID: WINDOW CAULK B7 Collection Date: 8/6/2014 Lab#: AC80234-028 Receipt Date: 8/8/2014 Matrix: Caulk **PCB 8082** Analyte DF Units RL Result **Aroclor (Total)** 1 mg/kg 0.025 0.78 Aroclor-1016 1 mg/kg 0.025 ND Aroclor-1221 1 mg/kg 0.025 ND Aroclor-1232 0.025 ND 1 mg/kg 1 0.78 Aroclor-1242 mg/kg 0.025 Aroclor-1248 1 mg/kg 0.025 ND Aroclor-1254 1 mg/kg 0.025 ND Aroclor-1260 0.025 ND 1 mg/kg Aroclor-1262 1 0.025 ND mg/kg ND Aroclor-1268 mg/kg 0.025 1 Sample ID: 1 LANDIS Collection Date: 8/6/2014 Lab#: AC80234-029 Receipt Date: 8/8/2014 Matrix: Wipes Cr (Hexavalent) 3500-Cr D Units DF RL Analyte Result Cr (Hexavalent) 1 0.0012 0.018 mg/wipe Sample ID: 2 ADMIRAL BUFFER Collection Date: 8/6/2014 Lab#: AC80234-030 Receipt Date: 8/8/2014 Matrix: Wipes Cr (Hexavalent) 3500-Cr D Analyte DF Units RL Result Cr (Hexavalent) 1 mg/wipe 0.0012 ND Sample ID: 3 HYDRO FINISHER Collection Date: 8/6/2014 Lab#: AC80234-031 Receipt Date: 8/8/2014 Matrix: Wipes Cr (Hexavalent) 3500-Cr D Analyte DF Units RL Result Cr (Hexavalent) 1 0.0012 ND mg/wipe

NOTE: Soil Results are reported to Dry Weight

Project #: 4080808

Sample ID: 4 BUHALO DRILL PRESS Lab#: AC80234-032			Collection Date: Receipt Date:	
Matrix: Wipes			Noocipi Buio.	0/0/2014
Cr (Hexavalent) 3500-Cr D				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/wipe	0.0012	ND
Sample ID: 5 YELLOW FORKLIFT			Collection Date:	8/6/2014
Lab#: AC80234-033			Receipt Date:	
Matrix: Wipes			·	
Cr (Hexavalent) 3500-Cr D				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/wipe	0.0012	0.0014
Sample ID: 6 ORANGE FORKLIFT			Collection Date:	8/6/2014
Lab#: AC80234-034			Receipt Date:	8/8/2014
Matrix: Wipes				
Cr (Hexavalent) 3500-Cr D				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	10	mg/wipe	0.012	0.074
Sample ID: 7 ROOTS BLOWER			Collection Date:	8/6/2014
Lab#: AC80234-035			Receipt Date:	8/8/2014
Matrix: Wipes				
Cr (Hexavalent) 3500-Cr D				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/wipe	0.0012	ND
Sample ID: 8 DUST COLLECTOR			Collection Date:	
Lab#: AC80234-036			Receipt Date:	8/8/2014
Matrix: Wipes				
Cr (Hexavalent) 3500-Cr D				
Analyte	DF .	Units	RL	Result
Cr (Hexavalent)	1	mg/wipe	0.0012	ND
Sample ID: 9 WELDER			Collection Date:	
Lab#: AC80234-037 Matrix: Wipes			Receipt Date:	8/8/2014
Cr (Hexavalent) 3500-Cr D	DE.	l Inito	DI	Dogult
Analyte	DF 4	Units	RL 0.0012	Result
Cr (Hexavalent)	1	mg/wipe	0.0012	0.015
Sample ID: 10 MAG FLOOR SWEEPS			Collection Date:	
Lab#: AC80234-038 Matrix: Wipes			Receipt Date:	8/8/2014
Cr (Hexavalent) 3500-Cr D				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/wipe	0.0012	0.0016
		ilig/wipe		
Sample ID: 11 WORK BENCH Lab#: AC80234-039			Collection Date: Receipt Date:	
Matrix: Wipes			Neceipt Date:	0/0/2014
Cr (Hexavalent) 3500-Cr D				
Analyte	DF	Units	RL	Result
		J		

Sample ID: 12 COMPRESSOR 1 Lab#: AC80234-040			Collection Date: Receipt Date:	
Matrix: Wipes			Neceipi Date.	J/ U/ ZU 14
Cr (Hexavalent) 3500-Cr D				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/wipe	0.0012	0.0064
Sample ID: 13 COMPRESSOR 2		<u> </u>	Collection Date:	9/6/2014
Lab#: AC80234-041			Receipt Date:	
Matrix: Wipes			rioco.pt Dato.	0/0/2014
Cr (Hexavalent) 3500-Cr D				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	10	mg/wipe	0.012	0.062
Sample ID: 14 FLAG			Collection Date:	8/6/2014
Lab#: AC80234-042			Receipt Date:	
Matrix: Wipes				
Cr (Hexavalent) 3500-Cr D				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/wipe	0.0012	ND
Sample ID: 15 CUT OFF SAW			Collection Date:	8/6/2014
Lab#: AC80234-043			Receipt Date:	
Matrix: Wipes				
Cr (Hexavalent) 3500-Cr D				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/wipe	0.0012	0.0040
Sample ID: 16 TOLEDO SCALE			Collection Date:	8/6/2014
Lab#: AC80234-044			Receipt Date:	8/8/2014
Matrix: Wipes				
Cr (Hexavalent) 3500-Cr D				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/wipe	0.0012	0.0084
Sample ID: 17 FAIR BANK SCALE			Collection Date:	8/6/2014
Lab#: AC80234-045			Receipt Date:	8/8/2014
Matrix: Wipes				
Cr (Hexavalent) 3500-Cr D				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/wipe	0.0012	0.010
Sample ID: 18 BRAKE			Collection Date:	8/6/2014
Lab#: AC80234-046			Receipt Date:	8/8/2014
Matrix: Wipes				
Cr (Hexavalent) 3500-Cr D				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/wipe	0.0012	0.0029
Sample ID: 19 SHEAR			Collection Date:	8/6/2014
Lab#: AC80234-047			Receipt Date:	8/8/2014
Matrix: Wipes				
Cr (Hexavalent) 3500-Cr D				
Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/wipe	0.0012	ND

Project #: 4080808

Page 16 of 17

NOTE: Soil Results are reported to Dry Weight

Sample ID: 20 BOSTON BLOWER

Lab#: AC80234-048

Matrix: Wipes

Collection Date: 8/6/2014

Receipt Date: 8/8/2014

Cr (Hexavalent) 3500-Cr D

 Analyte
 DF
 Units
 RL
 Result

 Cr (Hexavalent)
 5
 mg/wipe
 0.0062
 0.047

Sample ID: 21 125 HP MOTOR

Lab#: AC80234-049

Matrix: Wipes

Collection Date: 8/6/2014

Receipt Date: 8/8/2014

Cr (Hexavalent) 3500-Cr D

or (noxuraioni) coco or b					
Analyte	DF	Units	RL	Result	
Cr (Hexavalent)	1	mg/wipe	0.0012	0.022	

The manuscration of support in contract part of the control part o		•	
RECORD Transport Name Transport Tra		-	
The product statement for party of the product of t	Conceillatoris		Ittorial Notes
Procession Price Accession	k if applicable: ect-Specific Reporting Limits		
Price Control Contro	5.(8260B SIM or 8011)		
Price 1995	or RNA (8270C SIM)	COOD 41/8/	Lucy
157 Clarific Dynk, North Later, New Jeans 1500 150	Comments, Notes, Special Requirements, HAZARDS	Accepted by:	Relinquis
1972 Classification		- X 541 4 10 CF 12	-010 Expess
Macro Control November No		30-1-86 07 M25 X	-ODY Expans
RECORD Classification Proceedings Proceeding Pr		See 1 . 8 8 O7 133, X	T
Matth: Codes West-Committee Contingent		Stell-85 02	\succeq
Report Type Project		A S Lie X	807-
Project International Project		S	- 202
1372 Gallage Total Tot		-2 (3-4) S 14.8) S-	
A Customer Sample ID Hatrix Date Time Date Time Date Time Date Dat		14 - 2(0-1) S /46 X Y	- 200
Project Information		SR-1(4-5) S 1 1330 X 7	170
Project Facebook		(0-1) S 8/5/N /330 + X	109
Tight Center): 854-780-6055 Far: 854-780-6056 Turneround Turne	MeOH En Core NaOH HCI H2SO4 HNO3 Other:	Matrix Date Time Compos	
Mactic Codes Nove Nove Nove Nove	# of Bottles	site (C)	1
Size Act Red and red Record R		OL - Oil	
Type		Watrix Codes S-Soil A-Air Type	
### RECORD 3) Reporting Requirements (Please ri 137-2 Gaither Drive, Mount Laurel, New Jersey 1885; 1973-244-9787) 19892 98954 Hammon/Cusiner Jersey 1885; 1973-244-9787) 1973-344-9787) 1985-780-6057 Fax: 856-780-6058 Hammon/Cusiner Jersey 1885; 1985-1885, 1	<=== Check if Contingent		USE
The content of the properties of the propert		7) Analysis Remost	OBIAB
RECORD Total Propert		La Ude-TE	Send Report to:
## 40 West and 2 matison road, Failliell, New Jersey (1004) ## 426-9992 973-244-9787 Fax: 973-244-9787 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-244-9787 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ## 145-9992 1973-439-1458 ##	2 Weeks Category A		Send Invoice to:
# 40 west and 2 madason road, Fall left, New Jersey 17004 #26-9992 973-244-9770 Fax: 973-244-9789 1973-499-1458 Project Information #26-9992 973-244-9770 Fax: 973-244-9789 1973-499-1458 #26-9992 973-244-9770 Fax: 973-244-9789 1973-499-1458 Project Information #26-9992 973-244-9770 Fax: 973-244-9789 1973-499-1458 #26-9992 973-244-9770 Fax: 973-244-978 1973-499-1458 #26-9992 973-244-9770 Fax: 973-244-978 1973-499-1458 #26-9992 973-244-9770 Fax: 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-978 1973-499-1458 #26-9992 973-244-97	1 Week (25%) 10 Calendar Days (10%) Full / Category B	20) Project Location (City/State):	Email/Cell/Fax/Ph:
# 40 west and 2 madason road, refilled, New Jersey (1704) ## 426-9992 973-244-9770 Fax: 973-244-978 1973-439-1458 ### 137-D Galther Prive, Mount Laurel, New Jersey 88954 #### 137-D Galther Prive, Mount Laurel, New Jersey 88954 ###################################	NY Reduced	Brooklaw Jakus	(6)
HAMPTONICLARICE VERTECH RECORD 3) Reporting Requirements (Please C Worder, Disadvantaged, Small Business Enterprise Turnarround Report Type 1 1 1 1 1 1 1 1 1 1	NJ Reduced (Waste)	2a) Project: Parkectinom	EX
HAMPTONICLARICE VERITECH WORE/DEF/SBE 800.426.9992 A Women-Owned, Disadvantaged, Small Business Enterprise Turneround Report Type	Data Summary	NELAC/NJ #07071 PA #68-00463 NY #11408 CT #PH-0671 KY #90124 DE HSCA Approved	
HAMPTONCLARKE VERTECH WRECDER, SIE 800.426.59922 RECORD 1 C S U S U S U S U S U S U S U S U S U S	Report Type		Ph (Service Cer
RECORD TO TO SUDUD		HAMPTON CLARKE VERITECH WBE/DBE/SBE 800.426.9992	Service Center: 137-D G
	1,0000		Ph: 800-426-9992 973

As What and Substant Run Samps (2005) Assessed in Production from the finish (and from COUNTONY Desired Rose-Substant (1 and analys) (2005) The finish of Production from the finish (1 and analys) (2005) The finish of Production from the finish (1 and analys) (2 and analys	Date:		11) Sampler (print name):							
## Clastic Code: Entred Name Streety (PODA)	Cooler Temperature	ntaminant Concentrations Project	High Co NJ LSRI						Soles.	delli Gradi Notes
And 2 Adesion Road, Ferrified, New Library (1974). See 1975 (1974). See 19		pplicable: Specific Reporting Limits	Note: Check if a							
And 20 And an Road chiefed, New Yearsy (1905) 19 Reporting Recognized Statements (Pleased Condition Statements (Pleased Condi		4A (8270C SIM) 60B SIM or 8011)	VOC (82	1000	8/8/4				Fales	
And 24	uired to meet current standards:	w-level groundwater methods requ	Note: Check if k)	Redala			
## Of Year and O Medicin Road, Inferior Responsible Place Page Page	al Regulrements, HAZARDS	Comments, Notes, Specia		Time	Date	1 by:	Accepted		uished by:	0) Reling
A of Week and C Hodges (Proc.) A CHAN OF C USTODY A PROC.					ベベメ	2	16/14	m1 43]	0 81 och 4	4-02
Accepted processing					アア	р	16/My		7 Blackui	9
Librario Cousting Post, Ferring (1904) Librario Cousting Post, Ferring (1904) Referring (1904) Couliner Drus, Mouri Larrel, New Jeans (1905) Referring Country (1904) Refe					እ	*			> Blacku	30-
Activation Country Channel Country Channel Country Channel Country Channel Country Channel Country Channel Country C					X X	7		Slack wall As	2 015:4	10,
Les Private process of Secretary (1996) Appendix 1370 Coaliste Drive, North Lauret, New Jerry (1995) Appendix 1370 Coaliste Drive, North Lauret, New Jerry (1995) Appendix Coaliste Drive, North Coaliste Drive, (1995) Appendix Coaliste Drive, North Coaliste Drive, (1995) Appendix Coaliste Drive, North Coaliste Drive, (1995) Appendix Coaliste Dri					X X X	>			3 Stockwa	0
Teach Price and 2 Medison Read, Ferrified, New Jersey (19704) Service (1971) Califer Drive Mount aunal New Jersey (1976) New York Cartest (1972) RECORD Tunaround Report (1970) Califer Drive Mount aunal New Jersey (1976) New Jersey (1974) RECORD Tunaround Report (1970) Reporting Requirements (Please August) Tunaround Report (1970) Reporting Requirements (Please August) Reporting Requirements (Please Augus) Reporting Requirements (Please August) Reporting Requirements					メメダ	×			Blacku	-0(
Cate of West and 2 Notices on Road, Farified, New Jersey 00055 Category 1972-04-1855 State of Physics (North Lavrel, New Jersey 00055 A William Annual Fort New Jersey 00055 A Jersey 00					ハハ	A		Place A	_	9
To California Control (New Jersey (17004) See Set 1712 Galfrier (1712 Galfrier) 1972 444-1715 (1712 Galfrier) 1972 441-1715 (-142	メン	٥	+			9
Turnaryund RECORD RECOR					4 4	А		Floor	Consu	-02
Turnaround (2 Modison Road, Ferfield, New Jersey 07004) Alexander 1973-244-9787 973-449-1489 20054 Alexander 1970-244-9787 PA 484-348-1489 20054 IN (Service Carde), 855-780-6935 PA 264-349-1489 20054 IN (Service Carde), 855-780-6935 PA 485-00463 INV #11408 CT IPH-6871 INV #80702 Death-ormaged, Small Business Enterprise Turnaround Report Type Project Incommission Pa 484-00463 INV #11408 CT IPH-6871 INV #80702 Death-ormaged, Small Business Enterprise Turnaround Report Type Project Incommission Pa 484-00463 INV #11408 CT IPH-6871 INV #80702 Death-ormaged, Small Business Enterprise Turnaround Report Type Project Incommission Pa 484-00463 INV #80400000 Pa 184000000 Pa 4 Business Days (50%) NV Reduced Pa 4 Business Days (50%) NV		3			X ス ヽ	ゎ		Floor.	Concule	-01
Channel Project Channel Chan	HCI H2SO4 HNO3 Other:	MeOH En Con			DCy	Grab (0	b) Sam			Lab Sample #
Let 40 West and 2 Medison Road, Fairfield, New Jersey (17004 Let 40 West and 2 Medison Road, Fairfield, New Jersey (17004 Let 40 West and 2 Medison Road, Fairfield, New Jersey (17004)	Bottles	**		vį.	المساط))	∋m 9, Comments)	her (please specify under it		Ac80234
Leady West and 2 Medison Road, Fairfield, New Jersey 07004 Age-9992 1973-244-9776 Fax: 9173-2449778 9173-449574 Part 1973-449576 Fax: 9173-2449778 9173-449576 Fax: 9173-2449778 9173-449576 Fax: 9173-2449778 Part 1973-449576 Fax: 9173-2449778 Part 1973-449576 Fax: 9173-2449778 Part 1973-449576 Fax: 9173-2449778 Part 1973-44958 Part					Chr				GW-G	Batch #
See Neest and 2 Medison Road, Fairfield, New Jersey 07004 Regease 1973-244-9776 Fair 973-244-9787 973					ll Am	Sample Type	A - Air	Matrix Codes rinking Water S - Soil	DW - Dr	← NIY
te 46 West and 2 Madison Road, Fairfield, New Jersey 07004 426-9992 1973-244-9787 Fax: 973-244-9787 1973-4458 426-9992 1973-244-9787 Fax: 973-244-9787 1973-4458 426-9992 1973-244-9787 Fax: 985-780-6054 h (Service Center): 856-780-6055 Fax: 856-780-6055 Fax: 856-780-6056 h (Service Center): 856-780-6056 Affine Ph-0671 KY #90124 DE HSCA Approved Customer Information Customer Information 2a) Project Mgr: Project Information 2b) Project Location (City/State): 2c) Project Location (City/State): 2d) Quote/PO # (if Applicable): Expedited TAT Not Aways Available. Please City Applicable.	Contingent	<=== Check If C	Request	7) Analysis	••••••••••••••••••••••••••••••••••••••	ent ===>	Check If Conting		3	FOR LAB
te 46 West and 2 Madison Road, Fairfield, New Jersey 07004 426-9992 973-244-9770 Fax: 973-244-9787 973-439-1458 1-Anter: 137-D Gaitfier Drive, Mount Laurel, New Jersey 08054 1-Anter: 137-D Gaitfier Drive, Mount Laurel, New Jersey 08054 1-Anter: 137-D Gaitfier Drive, Mount Laurel, New Jersey 08054 1-Anter: 137-D Gaitfier Drive, Mount Clark Phosphicable CT #PH-0671 KY #90124 DE HSCA Approved 1 Business Day (100%) Data Summary Customer Information Customer Information 2a) Project: Pufet Information 2a) Project Mgr: Project Mgr: 2b) Project Mgr: 2c) Project Location (City/State): 2d) Quote/PO # (If Applicable): Other: Chain OF CUSTODY 4/05/05 RECORD 3) Reporting Requirements (Please Turnaround Report Type Data Summary 2 Business Day (100%) Data Summary 2 Business Days (75%) NJ Reduced 4 Business Days (35%) NY Reduced 4 Business Days (35%) NY Reduced 4 Business Days (10%) O Calendar Days (10%) 4 Business Days (10%) O Calendar Days (10%) Calegory A Cother: 2d) Quote/PO # (If Applicable):	r Aways Availabe. Frease Circla With Lab.	Expedied IAI Not								
te 46 West and 2 Medison Road, Feirfield, New Jersey 07004 426-9992 1973-244-9776 Fax: 973-244-9787 1973-439-1458 26-9992 1973-244-9776 Fax: 973-244-9787 1973-439-1458 27-24-9776 Fax: 973-244-9787 1973-439-1458 28-24-25-25-25-25-25-25-25-25-25-25-25-25-25-	Other				O # (If Applicable):	2d) Quote/			port to:	1d) Send Report to
Texperiment and 2 Medison Road, Fairfield, New Jersey 07004 426-9992 1973-244-9770 Fair: 973-244-9787 1973-439-1458 HAMPTON CARRET VERTECH V		2 Weeks							roice to:	1c) Send Invoice to:
The 46 West and 2 Madison Road, Feirfield, New Jersey 07004. 426-9992 973-244-9770 Fax: 973-244-9787 973-439-1458 Panter: 137-D Gaither Drive, Mount Laurel, New Jersey 08054 In (Service Center): 856-780-6057 Fax: 856-780-6056 NELACINJ #07071 PA #68-00463 NY #11408 CT #PH-0671 KY #90124 DE HSCA Approved Customer Information Customer Information 2a) Project: Project Information 2b) Project Mgr: Chain Of CUSTODY CHAIN Of CUSTODY RECORD 3) Reporting Requirements (Please Turnaround Report Type Data Summary Data		10 Calendar Days (10%)			Location (City/State):	2c) Project			sll/Fax/Ph:	1b) Email/Cell/Fax/Ph:
te 46 West and 2 Madison Road, Feirfield, New Jersey 07004 426-9992 973-244-9770 Fax: 973-244-9787 973-439-1458 26-9992 973-244-9770 Fax: 973-244-9787 973-439-1458 27 137-D Gaither Drive, Mount Laurel, New Jersey 08054 28 14 14 14 15 15 15 15 29 15 15 15 15 20 15 15 15 20 15 15 15 21 15 15 22 15 15 23 15 15 24 15 15 25 15 15 26 15 15 27 16 15 28 16 15 29 16 15 20 17 15 20 15 20 15 21 15 22 23 23 24 24 25 25 25 26 25 26 25 27 27 28 28 28 28 29 20 20 20 20 20 21 21 22 23 25 24 25 25 26 25 26 25 27 28 25 29 20 20 20 21 22 23 24 25 25 26 26 27 27 28 28 29 20 20 20 21 22 23 24 25 25 26 26 27 28 28 29 20 20 21 22 23 24 25 26 26 27 28 28 29 20 20 21 21 22 23 24 25 25 25 25 25 26 26 27 28 28 29 20 20 21 21 22 23 24 25 25 26 26 27 28 28 29 20 20 21 22 23 24 25 25 25 25 25 25 25 25		1 Week (25%)			Mgr:	2b) Project				
te 46 West and 2 Madison Road, Feirfield, New Jeirsey 07004 426-9992 973-244-9770 Fax: 973-244-9787 973-439-1458 Anter: 137-D Gaither Drive, Mount Laurel, New Jersey 08054 In (Service Center): 856-780-6057 Fax: 856-780-6056 NELACINJ #07071 PA #68-00463 NY #11408 CT #PH-0671 KY #90124 DE HSCA Approved Project Information	Λ	4 Business Days (35%)		-	T					Address:
HAMPTONCLARKE VERITICH WRECOREDSE 800-126-29922 A Women-Owned, Disadvantaged, Small Business Enterprise 1 Business Day (100%) 1 Business Day (100%) 1 Business Day (100%) 1 Business Day (100%)	<u> </u>	2 Business Days (75%)		matic	p	3 2 2		ustomer Information	Ĭ P	
HAMPTONICARRE VERTECH HAMPTONICARRE VERTECH WRITCHESSE 300, 456, 5992 A Women-Owned, Disadvantaged, Small Business Enterprise Turnaround Report Type	H-	1 Business Day (100%)		ă	90124 DE HSCA Approve	² H-0671 КҮ з)0463 NY #11408 CT #F	NELAC/NJ #07071 PA #68-		
RECORD 3) Reporting Requirements (Please Circle	Report Type Electronic Deliv	Turnaround	ss Enterprise	d, Small Busin	sadvanta	WBE/DBE/S	w Jersey 08054 780-6056	aither Drive, Mount Laurel, Nuer): 856-780-6057 Fax: 856-	Ph (Service Cent	Service
	Page of	4080808	CUSTODY	HAIN OF		Ţ	w Jersey 07004 ' 973-439-1458	2 Madison Road, Fairfield, Ne 244-9770 Fax: 973-244-978	oute 46 West and 0-426-9992 973-	175 Ro Ph: 80

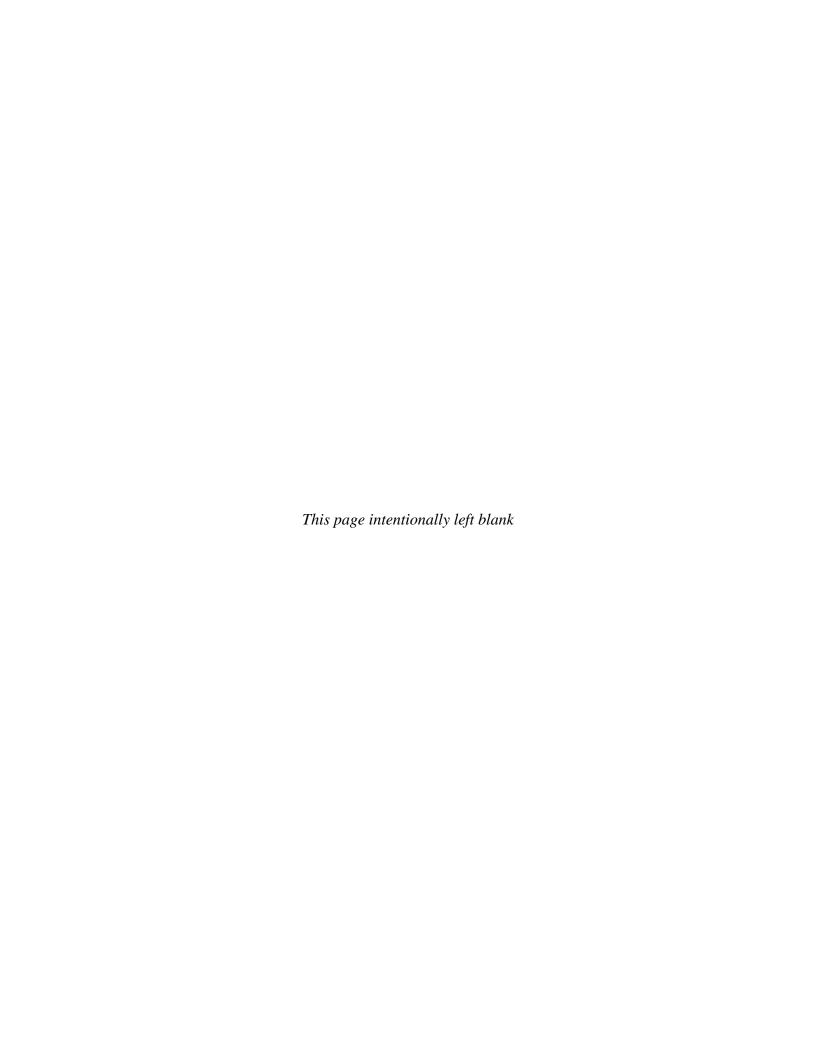
1/5 Houte 46 West and 2 Madison Road, Fairneid, New Jersey Vidua Ph; 808-426-9992 973-244-9770 Fax: 973-244-9787 973-439-1458		RECORD	3) Banorth	2) Deporting Rominamente (Please Circle)	
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054	WBE/DBE/SBE 800.426.9992 A Women-Owned, Disadvant	ed, Small Business Enterprise	Turnaround	Report Type	Electronic Deliv.
NELAC/NJ #07071 PA #68-00463 N	¥11408 CT #PH-0671		1 Business Day (100%)	Ha	Hazsite/CSV
Customer Information	Project Information	mation District	2 Business Days (75%) 3 Business Days (50%)	Results + QC (Waste) Env	EnviroData Excel - NJ Regulatory
	Mor		4 Business Days (35%) 1 Week (25%)	NY Reduced SEX	Excel - NY Regulatory Excel - PA Regulatory
1b) Email/Cell/Fax/Ph:	2c) Project Location (City/State):		10 Calendar Days (10%)		EQuIS (specify below):
1C) Send Invoice to:			2 Weeks	Category A 4-F	4-File/EZ/NYS/Reg. 2 or 5
1d) Send Report to:	2d) Quote/PO # (If Applicable):		Other: Expedited TAT No.	Other: Other:	with Lab.
		7) Analysis Request			
USE TO THE PROPERTY OF THE PRO	Check If Contingent ===>		<=== Check If Contingent	Contingent	
Matrix Codes	Sample V				
dge					
OT - Other (please spec	e (C)		## 9.	# of Bottles	
	Composition (G)		None MeOH En Core	NaOH HCI H2SO4 HNO3 Other:	9) Comments
Lab Sample # T) custoriei Sample is meun	7/100		iks	*	
2 Blukumii Ba	1130 X		C)		
3 Blockwall 84	X		3	1/1/2	
& Dakwell	// X X X X X X				
P	がなべ		S		
7 www. 6/c 87	<u> </u>		J		
S who could 37	/es X				
2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(325) × × × ×		<		
hed by:	Accepted by: Date	Time	Comments. Notes. Special Requirements. HAZARDS	al Requirements. HAZARD	
		Note: Check if lo	w-level groundwater methods rec	juired to meet current standards	
+	hillippe ()	100 Noc (82)	VOC (8260B SIM or 8011)		
Cettonal Notes		Project-Specific I High Contaminar NJ LSRP Project	Crietx in approache: Project-Specific Reporting Limits High Contaminant Concentrations NJ LSRP Project		Cooler Temperature
		11) Sampler (print name):		Date:	

1) Sampler (print name): Please note NUMBERED items. If not completed your analytical work may be delayed.	pler (print name): Date: note NUMBERED items. If not completed your analytical work may be de	11) Sampler (print name): Please note NUMBE								
Cooler Temperature	High Contaminant Concentrations NJ LSRP Project	NJ LSRP Project								Additional Notes
	Check if applicable: Project-Specific Reporting Limits	Note: Check if ap					(
	VOC (8260B SIM or 8011)	yoc (82	1800	A1/8/B		1	A P	1		<u></u>
	BN or BNA (8270C SIM)	BN or B					ed ES			
Comments. Notes. Special Requirements. HAZARDS Note: Check if low-level groundwater methods required to meet current standards:	Comments, Notes, Speci w-level groundwater methods req	Note: Check if lo	Time	Date		ed by:	Accepted by		ed by:	10) Relinquished by:
			=		7	78	J 1350	8	2 Compresson.	1001
					a	ġ	1345		I work bouch	1520
					0	A	(34b		5 mais flow sweek	820-
					α	K	881 8			-037 R
					Ø	B	SEH1			9
					N	X	13%		_	-035
	(2)				×	X	133	, A	Orace Rookin	-0341
					X	Ø	1330		Gellow Swikist	580
					ኦ	>	2.61		Build dill see	-0374
	1.				×	×	8/6/14 13/6	6	3 hide Flash	-03
H2	Me				1 -	╂	Date Time	Matrix	4) Customer Sample ID	Lab Sample #
SO4 IO3 her:_	OH Core				£7	nposi ib (G)	6) Sample	5		
8) # of Bottles	***				*****	te (C)), Comments)	nder item t	WW - Waste Water OL - Oil OT - Other (please specify under item 9, Comments)	Ac\$0234
							A-Alf	St - Soll	- 4	+
						Sample		odes	a	ONLY
Contingent	<=== Check If Contingent				V	gent ===	Check If Confingent ===>			USE
				7		Condition				
Criter Other:	Other			oplicable):	2d) Quote/PO # (If Applicable):	2d) Qu				1d) Send Report to
Category A 4-File/EZ/NYS/Reg. 2 or 5	2 Weeks								0.	1c) Send Invoice to:
Jory	10 Calendar Days (10%)			City/State):	2c) Project Location (City/State):	2c) Pro			Ph. Company of the co	1b) Email/Cell/Fax/Ph:
PA Reduced Excel - PA Regulatory	1 Week (25%)				2b) Project Mgr.	2b) Pri				Address
NJ Reduced Excel - NJ Regulatory NY Reduced Excel - NY Regulatory	3 Business Days (50%) 4 Business Days (35%)		D 64:-	Pontath Dist		2a) Project		1	CA Gustomer Information	a
Data Summary Hazsite/CSV	1 Business Day (100%)			E HSCA Approved	KY #90124 D	PH-0671	3 NY #11408 CT	A #68-0046	NELAC/NJ #07071 PA #88-00463 NY #11408 CT #PH-9671 KY #90124 DE HSCA Approved	
8 	Turnaround	ess Enterprise	Small Busin	A Women-Owned, Disadvantaged, Small Business Enterprise	4 Women-Own		9056	c 856-780-	Ph (Service Center): 856-780-6057 Fax: 856-780-6056	Ph (S
quirements (Please Circle	3) Reportin	RECORD	RECOR		HAMPTONCLARKE VERITECH	I T	73-439-1458	4-9787 9	175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004 Ph. 809-426-9992 973-244-9770 Fax: 973-244-9787 973-439-1458	175 Route 4 Ph: 800-426
Page C of S		CHETONY		\ 2	5		ones	abora	Hampton Clarke-Ventech Laboratories	HIE

		Additional Notes		Paley The Paley	6 CX	10) Relinquished by: Accepted by:	125 #	B) Was				Scale	4		-041 13 Common 2 W/R 8/6/14 /350	Lab Sample # 4) Customer Sample ID Matrix Date Time	m 9, c	Batch # Ww - Waste Water OL - Oil	DW - Drinking Water S - Soil A - Air	ONITY Matrix Codes Check it contingent			1d) Send Report to:	1c) Send Invoice to:	1b) Email/Cell/Fax/Ph:	A Duction	R A	ପ	PR (36/MC6 Center): 856/780-605/ PAX: 856-780-6056 [T.#PH-0671 KY #90124 DE HSCA Approved	Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054	HamptonClarke-Veritech Laboratories 175 Route 46 West and 2 Madison Road, Fahrfield, New Jersey, 07004 Ph. 800-426-9992 973-244-9770 Fax: 973-244-9787 973-439-1458
						ed by:	8	2	p	2	×	8	2 2	N	8	Grab (esite (C) G) +Ce		Туре	Gent			2d) Quote/PO # (If Applicable):		2C) Project Location (City/State):	2b) Project Mgr.	2a) Project:		#PH-0671 KY #90124	HAMPTONCLARKE VERITECH WBE/DBE/SBE 800.426.9992	i. Ĉ
				MARK		Date																	Applicable):		n (City/State):		Perfect in	Project Information	KY #90124 DE HSCA Approved	200	<
				1000		Time					9										7) Analysis Request						V	mation	a, onen busine	d Small Bushe	HAIN OF
Please note NUMBERD Items. If not completed your analytical work may be delayed.	11) Sampler (with name):	High Contaminant Concentrations NJ LSRP Project	Note: Check if applicable: Project-Specific Reporting Limits	VOC (8260B SIM or 8011)	Note: Check it low-level groundwater memods required to meet current standards:										4	News							Other	2 Week	10 Calendar Days (10%)	1 Week (25%)	3 Business Days (50%)	2 Business Days (75%)	1 Business Day (100%)		CHAIN OF CUSTODY 4080868
ms. If not com		intrations	g Limits	9	ter methods requir	Notes, Special						1 197011	. \$6		-1	MeOH En Cor	# of Bottles			Check II Condingent		Expedited TAT Not Always Available.			ays (10%)					3) Reporting	Project # (Lab Use Only)
deted your analytica	Date				ed to meet current stat	Comments, Notes, Special Requirements, HAZARDS						4				HCI H2SO4 HNO3 Other:	-			onungent		Aways Available. Please		Category A	Full L Center Cong. B.	PA Reduced	NJ Reduced	Results + QC (Waste)	Data Summary	3) Reporting Requirements (Please Circle)	Page
I work may be delayed.		Cooler Temperature			noaros:	ARDS										9) Comments						Check with Lab.	Other:	4-File/EZ/NYS/Reg. 2 or 5	EQuIS (specify below):	Excel - PA Regulatory	Excel - NJ Regulatory	EnviroData	Hazsife/CSV	ase Circle)	νη • •

Appendix C

Photographic Log



Perfection Plating Preliminary Design Investigation Photo Log Building Condition

PHOTOGRAPH		DESCRIPTION
	Photo: Date:	1 5 April 2010 Former plating building west side exterior wall looking south
	Photo: Date:	2 5 April 2010 Former plating building east side exterior wall looking south
	Photo: Date:	3 6 August 2014 Office at southern end of former plating building (grid location A/B10)

Pith A. F.	Photo: Date:	4 6 August 2014 Boiler room at southern end of former plating building (Grid location A/B9
	Photo: Date:	5 6 August 2014 Plating process room looking north (grid locations A/B 8 to 3)
	Photo: Date:	6 6 August 2014 Plating process room southern wall (grid location A8)



Photo:

Date: 6 August 2014

Plating process room interior west wall looking north (grids A8 to A5)



Photo: 8

Date: 6 August 2014

Plating process room interior west wall looking south (grids A5 to A8)



Photo:

Date: 6 August 2014

Plating process room interior looking north (grid location A6 to A2)

Photo: Date:	10 6 August 2014 Plating process room interior looking north (grid location A/B5 to A/B 2)
Photo: Date:	11 6 August 2014 Plating process room excavation area looking south (grid location A4/A3)
Photo: Date:	12 6 August 2014 Plating process room excavation area (grid location A4/A3)



Photo:

13 6 August 2014 Date:

> Plating process room excavation area looking north toward front office (grid location A4 to A2)



14 Photo:

6 August 2014 Date:

> Plating process room excavation area looking north toward front office (Grid location A/B4 to

A/2)



15 Photo:

Date: 6 August 2014

> Front office west side (Grid location A2/A1)



Photo: 16

Date: 6 August 2014

Front office east side (Grid location B2/B1)



Photo: 17

Date: 6 August 2014

Front office equipment along east side wall (Grid

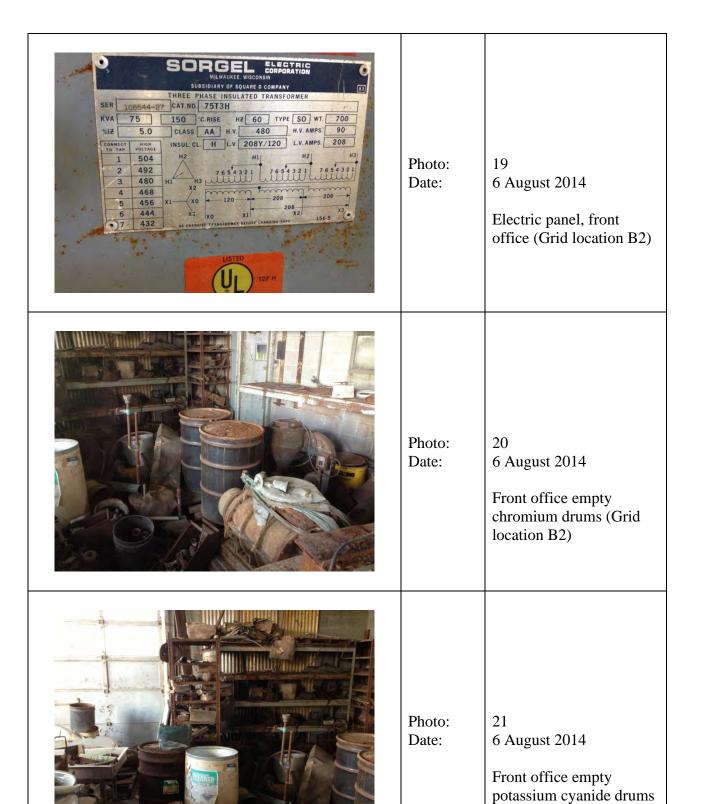
location B2)



Photo: 18

Date: 6 August 2014

Electric panel, front office (Grid location B2)



(Grid location B2)

Perfection Plating Preliminary Design Investigation Photo Log Equipment and Materials Inventory and Sampling

PHOTOGRAPH		DESCRIPTION
	Photo: Date:	1 6 August 2014 Landis
	Photo: Date:	2 6 August 2014 Admiral Buffer
Pongborn Hydro Thursh	Photo: Date:	3 6 August 2014 Hydro finisher

The state of the s	Photo: Date:	4 6 August 2014 Buffalo Drill Press
	Photo: Date:	5 6 August 2014 Yellow Forklift
	Photo: Date:	6 6 August 2014 Orange Forklift

Photo: Date:	7 6 August 2014 Roots Blower
Photo: Date:	8 6 August 2014 Dust Collector
Photo: Date:	9 6 August 2014 Welder

Photo: Date:	10 6 August 2014 Mag Floor Sweeper
Photo: Date:	11 6 August 2014 Work Bench
Photo: Date:	12 6 August 2014 Compressor 1

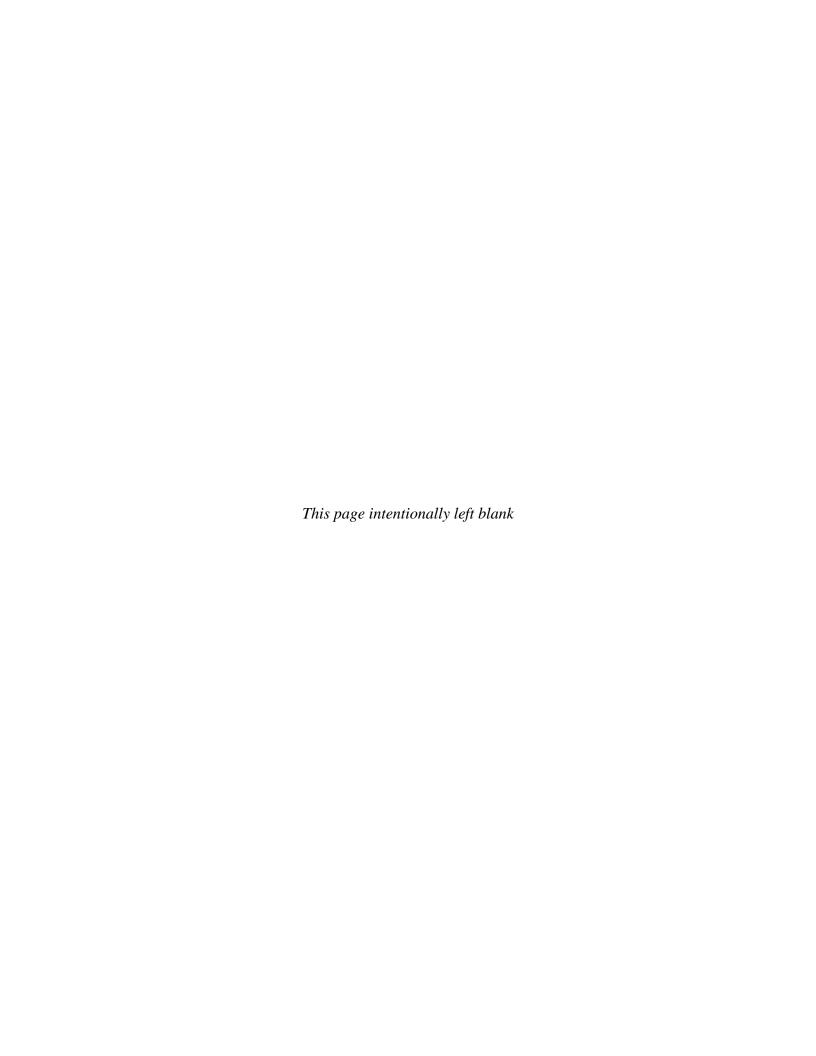
Photo: Date:	13 6 August 2014 Compressor 2
Photo: Date:	14 6 August 2014 Flagger
Photo: Date:	15 6 August 2014 Cut Off Saw

Photo: Date:	16 6 August 2014 Toledo Scale
Photo: Date:	17 6 August 2014 Fairbanks Scale
Photo: Date:	18 6 August 2014 Brake

PEXTO	Photo: Date:	19 6 August 2014 Shear
	Photo: Date:	20 6 August 2014 Boston Blower
	Photo: Date:	21 6 August 2014 125-hp Motor

Appendix D

Asbestos-Containing Material Survey





GEOLOGIC & ENVIRONMENTAL CONSULTANTS AN VLEET, PLLC

September 4, 2019

Mr. Tommy Giamichael Aztech Environmental Technologies 5 McCrea Hill Road Ballston Spa, NY 12020

RE: Pre-Demolition Asbestos Survey

911 11th Street Watervliet, New York

Dear Mr. Giamichael:

Hanson Van Vleet, PLLC conducted a pre-demolition asbestos containing material (ACM) survey of the former Perfection Plating building at 911 11th Street in the City of Watervliet, Albany County, New York (See Figure 1). HVV is authorized by the New York State Department of Labor under license # 05-0220 to perform asbestos inspections, sample collection and surveys. Samples of each type of suspected asbestos containing material (SACM) were collected. All samples were collected by a NYSDOL licensed Class D Inspector, in accordance with 12 NYCRR Part 56. The sampling was conducted on August 1, 2019. A copy of the NYSDOL Asbestos license is attached to this letter.

Methods

Prior to initiating sampling, an on-site walk through inspection of the building was performed in accordance with Subpart 56-5(e) of 12 NYCRR Part 56. Building plans were not available for review. Based on the site inspection, sampling of materials was performed to evaluate for suspect asbestos containing materials (SACM). Bulk samples were collected following standard sampling procedures throughout the entire structure. The samples were placed in double sealed sample bags and delivered by Federal Express to EMSL Analytical for analysis under formal chain of custody procedures. Friable type materials were analyzed by Polarized Light Microscopy (PLM) via the NY State ELAP 198.1 method. Non-organically bound (NOB) materials were analyzed by PLM via NYS method 198.6 NOB. If the NYS method 198.6 NOB was inconclusive, the NOB materials were then analyzed by transient electron microscopy (TEM) via NYS method 198.4 NOB.

Inspection Results

The subject structure is an approximately 6,400 square-foot, single-story building of concrete block construction reported to have been constructed in the early 1960's.

Exterior construction consists of concrete block walls, metal framed windows with glazing, metal doors, aluminum soffits and a membrane roof with tar at edges and overlaps.

The interior of the structure contains one office area with adjoining bathroom, and the former plating area and storage areas. Interior construction consists of concrete block walls, floors, and ceilings throughout, with vinyl floor tiles and drop ceilings in the office area.

Bulk samples were collected of the following suspect ACM (SACM) materials identified at the subject structure during the inspection conducted on August 1, 2019.

- Vinyl Floor Tile in Office
- Vinyl Floor Tile Mastic in Office
- Floor Leveling Compound in Office
- Drop Ceiling Tiles in Office
- Window Glazing
- Roofing Tar on Membrane Edges and Overlaps
- Silver Paint on Membrane Roof
- Tar Paper Roofing Underlayment

Asbestos Containing Material Sampling Results

Eighteen samples of six types of suspected ACM were collected for analysis for possible asbestos content. Based on the size of each area, type of construction, and observations, at least three samples of each type of suspect material were collected. The sample locations and results are summarized in Table 1 below. The Analytical results and chain of custody are attached to this letter.

Table 1
Asbestos Sampling Locations and Analytical Results

Sample No.	Type of Material	Location	Result	Approximate Quantity of ACM
1A	Vinyl Floor Tile	Office Floor	6.8%	300 sq ft
1A	Vinyl Floor Tile Mastic	Office Floor	4.9%	300 sq ft
1B	Vinyl Floor Tile	Office Floor	5.6%	300 sq ft
1B	Vinyl Floor Tile Mastic	Office Floor	4.9%	300 sq ft
1C	Vinyl Floor Tile	Office Floor	6.0%	300 sq ft
1C	Vinyl Floor Tile Mastic	Office Floor	6.0%	300 sq ft
2A	Vinyl Floor Tile	Office Floor	5.5%	300 sq ft.
2A	Vinyl Floor Tile Mastic	Office Floor	6.2%	300 sq ft.
2A	Floor Leveler	Office Floor	None Detected	300 sq ft.
2B	Vinyl Floor Tile	Office Floor	4.8%	300 sq ft.
2B	Vinyl Floor Tile Mastic	Office Floor	7.0%	300 sq ft.
2C	Vinyl Floor Tile	Office Floor	5.0%	300 sq ft.
2C	Vinyl Floor Tile Mastic	Office Floor	3.9%	300 sq ft.
3A	Drop Ceiling Tile	Office Ceiling	None Detected	NA
3B	Drop Ceiling Tile	Office Ceiling	None Detected	NA
3C	Drop Ceiling Tile	Office Ceiling	None Detected	NA
4A	Window Glazing	Exterior Windows	None Detected	NA
4B	Window Glazing	Exterior Windows	None Detected	NA
4C	Window Glazing	Exterior Windows	None Detected	NA

5A	Roofing Tar	Edges and Overlaps	6.2%	1,500 sq ft
5A	Silver Paint	Roof Membrane	Insufficient Material	6,400 sq ft
5B	Roofing Tar	Edges and Overlaps	0.039%	1,500 sq ft
5C	Silver Paint	Roof Membrane	Insufficient Material	6,400 sq ft
5C	Roofing Tar	Edges and Overlaps	1.8%	1,500 sq ft
5D	Silver Paint	Roof Membrane	Insufficient Material	6,400 sq ft
5D	Roofing Tar	Edges and Overlaps	2.8%	1,500 sq ft
5E	Silver Paint	Roof Membrane	6.0%	6,400 sq ft
5E	Roofing Tar	Edges and Overlaps	14%	1,500 sq ft
6A	Roof Tar	Roofing Underlayment	None Detected	NA
6A	Tar Paper	Roofing Underlayment	None Detected	NA
6A	Paper	Roofing Underlayment	None Detected	NA
6B	Roof Tar	Roofing Underlayment	None Detected	NA
6B	Tar Paper	Roofing Underlayment	0.021%	NA
6C	Roof Tar	Roofing Underlayment	0.012%	NA
6C	Tar Paper	Roofing Underlayment	0.02%	NA
6C	Paper	Roofing Underlayment	None Detected	NA

Testing of the suspect asbestos containing materials was performed pursuant to 12 NYCRR Part 56, (Code Rule 56). Materials are identified as ACM if they are found to contain more than 1% asbestos fibers by volume. The results of the asbestos survey identified the following materials as ACM.

- Approximately 300 Square Feet of Vinyl Floor Tile in the Office is Identified as ACM.
- Approximately 300 Square Feet of Vinyl Floor Tile Mastic in the Office is Identified as ACM.
- Approximately 1,500 Square Feet of Roofing Tar at Membrane Edges and Overlaps is Identified as ACM.
- Approximately 6,400 Square Feet of Silver Paint on the Membrane Roofing is Identified as ACM.

Conclusions

The asbestos survey conducted of the subject property identified asbestos containing building materials as summarized above. All ACM identified herein will require abatement by a licensed asbestos abatement contractor in accordance with 12 NYCRR Part 56, (Code Rule 56) prior to any disturbance of the materials or demolition of the structure.

If you have any questions regarding this survey, please contact us at (518) 371-7940.

Very truly yours,

Hanson Van Vleet, PLLC

James Gironda

NYSDOL Class D Inspector Certificate # 07-05263

CC: NYSDOL



 $\mathbf{H}_{\text{ANSON}}$

 $\mathbf{V}_{\text{AN VLEET, PLLC}}$

HYDROGEOLOGIC CONSULTANTS

Figure 1
Site Location
911 11th Street
Watervliet, New York



Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-157170-1

Client Project/Site: Perfection Plating #401037

For:

New York State D.E.C. 625 Broadway 9th Floor Albany, New York 12233-7258

Attn: George Momberger

Judy Stone

Authorized for release by: 8/9/2019 5:47:14 PM

Judy Stone, Senior Project Manager (484)685-0868

judy.stone@testamericainc.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Judy Stone Senior Project Manager 8/9/2019 5:47:14 PM

Client: New York State D.E.C. Project/Site: Perfection Plating #401037 Laboratory Job ID: 480-157170-1

Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Subcontract Data	7
Chain of Custody	27
Receipt Checklists	30

5

4

8

Case Narrative

Client: New York State D.E.C.

Project/Site: Perfection Plating #401037

Job ID: 480-157170-1

Job ID: 480-157170-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-157170-1

Comments

These samples were shipped directly by the sampler to Eurofins CEI for asbestos analysis. Their report is included here.s

The samples were received on 8/6/2019 10:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Method Summary

Client: New York State D.E.C.

Project/Site: Perfection Plating #401037

 Method
 Method Description
 Protocol
 Laboratory

 PLM
 Asbestos in Soils
 EPA-01
 Eurofins

Protocol References:

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

Laboratory References:

Eurofins = Eurofins CEI Inc, Accounts Payable, 343 W Main St, Leola, PA 17540

8/9/2019

Job ID: 480-157170-1

3

4

5

6

Sample Summary

Client: New York State D.E.C.

Project/Site: Perfection Plating #401037

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received
 Asset ID

 480-157170-1
 1A - 6C
 Solid
 08/01/19 00:00
 08/02/19 10:00
 08/02/19 10:00

Job ID: 480-157170-1

3

J

7

9

eurofins

CLIENT PROJECT: NYSDEC - Perfection Planting 402037, 48019790 DEC Site

401037

LAB CODE: N190036

Dear Customer:

Enclosed are asbestos analysis results for Asbestos Bulk samples received at our laboratory on August 6, 2019. The samples were analyzed for asbestos using polarizing light microscopy (PLM) and / or transmission electron microscopy (TEM) by New York State ELAP approved methods.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit varies with the method chosen for the analysis. Eurofins CEI is accredited by the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP), certificate #12048.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH Laboratory Director





ASBESTOS ANALYTICAL REPORT By: New York State ELAP Method

Prepared for

CLIENT PROJECT: NYSDEC - Perfection Planting 402037, 48019790 DEC

Site 401037

LAB CODE: N190036

TEST METHOD: NYS ELAP METHODS 198.1, 198.6, 198.4, 198.8 as applicable

REPORT DATE: 08/09/19

TOTAL LAYERS ANALYZED: 36

LAYERS >1% ASBESTOS: 17

Asbestos Report Summary

By: NEW YORK STATE METHOD

PROJECT: NYSDEC - Perfection Planting 402037, **LAB CODE:** N190036

48019790 DEC Site 401037

eurofins

ASBESTOS BULK.	NEW YORK STATE METHODS

Client ID	Lab ID Co	olor	Sample Description	Total Asbestos %
1A	N002178A Br	rown	Floor Tile	6.8%
	N002178B BI	ack	Mastic	4.9%
1B	N002179A Br	rown	Floor Tile	5.6%
	N002179B BI	ack	Mastic	4.9%
1C	N002180A Br	rown	Floor Tile	6.0%
	N002180B BI	ack	Mastic	6.0%
2A	N002181A Ta	an	Floor Tile	5.5%
	N002181B BI	ack	Mastic	6.2%
	N002181C Gi	 ray	Leveling Compound	None Detected
2B	N002182A Ta	an	Floor Tile	4.8%
	N002182B BI	ack	Mastic	7.0%
2C	N002183A Ta	an	Floor Tile	5.0%
	N002183B BI	ack	Mastic	3.9%
3A	N002184 Gr	ray	Ceiling Tile	None Detected
3B	N002185 Gr	ray	Ceiling Tile	None Detected
3C	N002186 Gr	ray	Ceiling Tile	None Detected
4A	N002187 W	hite, Tan	Window Glazing	None Detected
4B	N002188 W	hite, Tan	Window Glazing	None Detected
4C	N002189 W	hite, Tan	Window Glazing	None Detected
5A	N002190A Si	lver	Paint	Insufficient Material
	N002190B BI	ack	Roof Tar	6.2%
5B	N002191 BI	ack	Roof Tar	0.039%
5C	N002192A Si	lver	Paint	Insufficient Material
	N002192B BI	ack	Roof Tar	1.8%
5D	N002193A Si	lver	Paint	Insufficient Material
	N002193B BI	ack	Roof Tar	2.8%
5E	N002194A Si	lver	Paint	6.0%
	N002194B BI	ack	Roof Tar	14%
6A	N002195A BI	ack	Roof Tar	None Detected
	N002195B BI	ack	Tarpaper	None Detected
	N002195C Br	own	Paper	None Detected
6B	N002196A BI	ack	Roof Tar	None Detected
	N002196B BI	 ack	Tarpaper	0.021%

Page 1 of 2



Asbestos Report Summary By: NEW YORK STATE METHOD

eurofins

PROJECT: NYSDEC - Perfection Planting 402037, **LAB CODE:** N190036

48019790 DEC Site 401037

ASBESTOS BULK.	NEW YORK STATE METHODS

CEI

Í	Client ID	Lab ID	Color	Sample Description	Total Asbestos %
Ļ	Olichi ib	Lub ID	00101		Total Assestes 70
	6C	N002197A	Black	Roof Tar	0.012%
		N002197B	Black	Tarpaper	0.02%
		N002197C	Brown	Paper	None Detected



By: NEW YORK STATE METHOD

eurofins CEI

Client: Lab Code: N190036

> Date Received: 08-06-19 Date Analyzed: 08-09-19 Date Reported: 08-09-19

Client ID Lab ID	Layer Number Lab Description	Category	Color			
1A N002178A	1 Floor Tile	NOB	Brown		Initial Observations: Matrix	93%
				Method:	Final Results:	
					Total Asbestos:	6.8%
				198.6		
				Chrysotile	6.8%	
N002178B	2 Mastic	NOB	Black		Initial Observations: Matrix	95%
				Method:	Final Results:	
					Total Asbestos:	4.9%
				198.6	4.00/	
				Chrysotile	4.9%	
1B N002179A	1 Floor Tile	NOB	Brown		Initial Observations: Matrix	94%
				Method:	Final Results:	0.70
					Total Asbestos:	5.6%
				198.6		
				Chrysotile	5.6%	
N002179B	2	NOB	Black		Initial Observations:	
	Mastic				Matrix	95%
				Method:	Final Results:	
					Total Asbestos:	4.9%
				198.6		
				Chrysotile	4.9%	

By: NEW YORK STATE METHOD

eurofins CEI

Client: Lab Code: N190036

> Date Received: 08-06-19 Date Analyzed: 08-09-19 Date Reported: 08-09-19

ASBESTOS	BULK, I	NEW Y	ORK S	TATE	METHODS

Client ID Lab ID	Layer Number Lab Description	Category	Color			
1C N002180A	1 Floor Tile	NOB	Brown		Initial Observations: Matrix	94%
				Method:	Final Results:	
					Total Asbestos:	6.0%
				198.6		
				Chrysotile	6.0%	
N002180B	2	NOB	Black		Initial Observations:	
	Mastic				Matrix	94%
				Method:	Final Results:	0.0%
					Total Asbestos:	6.0%
				198.6		
				Chrysotile	6.0%	
2A N002181A	1 Floor Tile	NOB	Tan		Initial Observations: Matrix	94%
				Method:	Final Results:	
					Total Asbestos:	5.5%
				198.6		
				Chrysotile	5.5%	
N002181B	2 Mastic	NOB	Black		Initial Observations: Matrix	94%
				Method:	Final Results:	
					Total Asbestos:	6.2%
				198.6		
				Chrysotile	6.2%	

By: NEW YORK STATE METHOD

eurofins CEI

Client: Lab Code: N190036

> Date Received: 08-06-19 Date Analyzed: 08-09-19 Date Reported: 08-09-19

ASBESTOS BULK	, NEW YORK	STATE METHODS
----------------------	------------	---------------

Client ID Lab ID	Layer Number Lab Description	Category	Color			
N002181C	3 Leveling	Friable	Gray		Initial Observations: Binder	40%
	Compound				Silicates	60%
				Method:	Final Results:	
				198.1 None Detected	Total Asbestos:	None Detected
2B	1	NOB	Tan		Initial Observations:	
N002182A	Floor Tile				Matrix	95%
				Method:	Final Results:	
					Total Asbestos:	4.8%
				198.6		
				Chrysotile	4.8%	
N002182B	2	NOB	Black		Initial Observations:	
	Mastic				Matrix	93%
				Method:	Final Results:	
					Total Asbestos:	7.0%
				198.6		
				Chrysotile	7.0%	
2C N002183A	1 Floor Tile	NOB	Tan		Initial Observations: Matrix	95%
				Method:	Final Results:	
					Total Asbestos:	5.0%
				198.6		
				Chrysotile	5.0%	

3

ASBESTOS BULK ANALYSIS By: NEW YORK STATE METHOD

***** eurofins

CEI

Client: Lab Code: N190036

Date Received: 08-06-19 Date Analyzed: 08-09-19 Date Reported: 08-09-19

ASBESTOS BULK, NEW YORI	K STATE METHODS
-------------------------	-----------------

Client ID Lab ID	Layer Number Lab Description	Category	Color			
N002183B	2 Mastic	NOB	Black		Initial Observations: Matrix	96%
				Method:	Final Results:	
					Total Asbestos:	3.9%
				198.6		
				Chrysotile	3.9%	
3A	Ceiling Tile	Friable	Gray		Initial Observations:	
N002184				Fiberglass	75% Binder	25%
				Method:	Final Results:	
				198.1 None Detected	Total Asbestos:	None Detected
3B	Ceiling Tile	Friable	Gray		Initial Observations:	
N002185				Fiberglass	75% Binder	25%
				Method:	Final Results:	
				198.1 None Detected	Total Asbestos:	None Detected
3C	Ceiling Tile	Friable	Gray		Initial Observations:	
N002186				Fiberglass	75% Binder	25%
				Method:	Final Results:	
				198.1 None Detected	Total Asbestos:	None Detected

By: NEW YORK STATE METHOD

eurofins CEI

Client ID

4C

5A

N002190A

N002189

Client: Lab Code: N190036

> Date Received: 08-06-19 Date Analyzed: 08-09-19 Date Reported: 08-09-19

Project: NYSDEC - Perfection Planting 402037, 48019790 DEC Site 401037

ASBESTOS BULK, NEW YORK STATE METHODS

Layer Number

Window Glazing

1

Lab Notes: INSUFFICIENT

Paint

NOB

NOB

White, Tan

Silver

Lab ID	Lab Description	Category	Color			
4A Window Glazing N002187	NOB	White, Tan		Initial Observations: Matrix	100%	
				Method:	Final Results:	
					Total Asbestos:	None Detected
				198.6 Inconclusive - NE)	
				198.4		
				None Detected		
4B	Window Glazing	NOB	White, Tan		Initial Observations:	
N002188					Matrix	100%
				Method:	Final Results:	
					Total Asbestos:	None Detected
				198.6 Inconclusive - NE)	
				198.4		

None Detected

Method:

198.6 Inconclusive - ND 198.4 None Detected **Initial Observations:**

Initial Observations:

Final Results: **Total Asbestos:**

Matrix

Method: Final Results: **Total Asbestos: Insufficient Material**

100%

None Detected

***** eurofins CEI

By: NEW YORK STATE METHOD

Client: Lab Code: N190036

> Date Received: 08-06-19 Date Analyzed: 08-09-19 Date Reported: 08-09-19

Client ID Lab ID	Layer Number Lab Description	Category	Color			
N002190B	2	NOB	Black		Initial Observations:	
	Roof Tar			Cellulose	10% Matrix	84%
				Method:	Final Results:	
					Total Asbestos:	6.2%
				198.6		
				Chrysotile	6.2%	
5B N002191	Roof Tar	NOB	Black		Initial Observations: Matrix	100%
				Method:	Final Results:	
					Total Asbestos:	0.039%
				198.6 Inconclusive - ND		
				198.4		
				Chrysotile	0.039%	
5C	1	NOB	Silver		Initial Observations:	
N002192A	Paint			Method:	Final Results:	
Lab Notes: I	NSUFFICIENT				Total Asbestos:	Insufficient Material
 N002192B	2	NOB	Black		Initial Observations:	
	Roof Tar			Cellulose	10% Matrix	98%
				Method:	Final Results:	
					Total Asbestos:	1.8%
				198.6		
				Chrysotile	1.8%	

Date Received: 08-06-19 Date Analyzed: 08-09-19 Date Reported: 08-09-19

N190036

Insufficient Material

87%

2.8%

94%

76%

By: NEW YORK STATE METHOD

ASBESTOS BULK ANALYSIS

Lab Code:

Initial Observations:

Total Asbestos:

Total Asbestos:

Final Results:

Project: NYSDEC - Perfection Planting 402037, 48019790 DEC Site 401037

ASBESTOS	BULK, NEW Y	ORK STA	TE ME	THODS
Client ID Lab ID	Layer Number Lab Description	Category	Color	
5D N002193A	1 Paint	NOB	Silver	Madles

Paint

Roof Tar

Lab Notes: INSUFFICIENT

N002194A

CEI

🗱 eurofins

Client:

N002193B	2	NOB	Black		
	Roof Tar			Cellulose	

Initial Observations: Cellulose 10% Matrix

Final Results: Method:

198.6

				Chrysotile	
5F	1	NOR	Silver		Т

2.8% **Initial Observations:**

Method:

Final Results:

Matrix

Total Asbestos: 6.0%

198.6

Chrysotile

6.0%

Black N002194B NOB

Initial Observations: 10% Matrix Cellulose

Method:

Final Results:

Total Asbestos: 14%

198.6

14% Chrysotile

ASBESTOS BULK ANALYSIS By: NEW YORK STATE METHOD

eurofins CEI

Client: Lab Code: N190036

> Date Received: 08-06-19 Date Analyzed: 08-09-19 Date Reported: 08-09-19

Client ID Lab ID	Layer Number Lab Description	Category	Color			
6A N002195A	1 Roof Tar	NOB	Black		Initial Observations: Matrix	100%
				Method:	Final Results:	
					Total Asbestos:	None Detected
				198.6 Inconclusive - ND		
				198.4 None Detected		
N002195B	2 Tarpaper	NOB	Black	Cellulose	Initial Observations: 70% Matrix	30%
				Method:	Final Results:	
					Total Asbestos:	None Detected
				198.6 Inconclusive - ND		
				198.4		
				None Detected		
N002195C	3	Friable	Brown		Initial Observations:	
	Paper			Cellulose	100%	
				Method:	Final Results:	
				198.1 None Detected	Total Asbestos:	None Detected

By: NEW YORK STATE METHOD

CEI

eurofins

Client: Lab Code: N190036

> Date Received: 08-06-19 Date Analyzed: 08-09-19 Date Reported: 08-09-19

Client ID Lab ID	Layer Number Lab Description	Category	Color			
6B	1	NOB	Black		Initial Observations:	
N002196A	Roof Tar				Matrix	100%
				Method:	Final Results:	
					Total Asbestos:	None Detected
				198.6 Inconclusive - ND		
				198.4		
				None Detected		
N002196B	2	NOB	Black		Initial Observations:	
	Tarpaper			Cellulose	70 % Matrix	30%
				Method:	Final Results:	
					Total Asbestos:	0.021%
				198.6 Inconclusive - ND		
				198.4		
				Chrysotile	0.021%	
6C	1	NOB	Black		Initial Observations:	
N002197A	Roof Tar				Matrix	100%
				Method:	Final Results:	
					Total Asbestos:	0.012%
				198.6 Inconclusive - ND		
				198.4		
					0.012%	

By: NEW YORK STATE METHOD

Client: Lab Code: N190036

> Date Received: 08-06-19 Date Analyzed: 08-09-19 Date Reported: 08-09-19

Project: NYSDEC - Perfection Planting 402037, 48019790 DEC Site 401037

CEI

eurofins

Client ID Lab ID	Layer Number Lab Description	Category	Color			
N002197B	2 Tarpaper	NOB	Black	Collulana	Initial Observations: 70% Matrix	30%
	таграрог			Cellulose Method:	Final Results:	30 %
				wethou.	Total Asbestos:	0.02%
				198.6 Inconclusive - ND		
				198.4		
				Chrysotile	0.02%	
N002197C	3	Friable	Brown		Initial Observations:	
	Paper			Cellulose	100%	
				Method:	Final Results:	
				198.1 None Detected	Total Asbestos:	None Detected

LEGEND

Non-Anth = Non-Asbestiform Anthophyllite Non-Trem = Non-Asbestiform Tremolite

CEI

Calc Carb = Calcium Carbonate

NOB = Non-Friable Organically Bound

SM-V = Surfacing Material Containing Vermiculite

GLOSSARY OF TERMS

Inconclusive - ND = PLM is not consistently reliable in detecting asbestos in floor coverings and other NOB materials. Currently, quantitative TEM must be used to determine

if this material can be considered or treated as non-asbestos containing.

Inconclusive - CR = Conflicting Results: Sample yielded 1% or less asbestos as determined by

gravimetric reduction and TEM analysis but had protruding fibers identified as asbestos during preliminary examination - further sampling and analysis

needed.

Inconclusive - Trace = Asbestos identified at 1% or less by the 198.6 method, and 0 asbestos points

out of 400 (or more) nonempty points were counted. Further testing by TEM

using NYS 198.4 method is required.

Trace = For methods 198.1 and 198.8, NYSDOH defines trace as samples where 0

asbestos points out of 400 (or more) nonempty points were counted, but did

contain asbestos positively identified by PLM.

Trace = For method 198.4 NYSDOH defines trace as asbestos detected at 1% or

less.

METHODS / REPORTING LIMITS

New York State Department of Health (NYS DOH) Environmental Laboratory Approval Program (ELAP)

NYELAP 198.1 0.25% by Volume

NYELAP 198.6 Varies with the weight and constituents of sample ($\leq 0.25\%$ by Volume) **NYELAP 198.8** Varies with the weight and constituents of sample ($\leq 1\%$ by Volume) Varies with the weight and constituents of sample ($\leq 0.25\%$ by Volume)

REGULATORY LIMIT: > 1% by weight

eurofins

Reported asbestos content verifiable only as the percentage of asbestos in residue submitted to laboratory. Samples with inconclusive results must not be interpreted as being non-ACM.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the customer. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP, NYSDOH or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST(S):

NVLAP LAB CODE 101768-0

(,1)

Amanda Rucinski - 198.4

APPROVED BY

Tianbao Bai, Ph.D., Cl Laboratory Director

CHAIN OF CUSTODY

	-
-	www.ac
	-10,000

CEI	LAB USE ONLY:
I CEI	N190036
730 SE Maynard Road, Cary, NC 27511	ECEI Lab Code: 1002176
Tel: 866-481-1412; Fax: 919-481-1442	ECEI Lab I.D. Range: NOO 2175-NOO
COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Tom Giamichael (Aztech/NYSDEC)
Company: Hansen Van Vleet, LLC	Email / Tel: tgiamichael@aztechenv.com (518-337-7635)
Address: 902 NY-146, Clifton Park, NY 12065	Project Name: NYSDEC - Perfection Plating#401037
	Project ID#: 48019790 DEC Site#401037
Email: jgironda@hansonvanvleet.com	PO #: Callout ID: 136401
Tel: 518-605-8676 Fax:	STATE SAMPLES COLLECTED IN: New York

	IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.						
				TURN AR	OUND TIME		
ASBESTOS	METHOD	4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK (FRIABLE)	NYSDOH ELAP 198.1						
PLM BULK (NOB)	NYSDOH ELAP 198.6					×	
TEM BULK (NOB)	NYSDOH ELAP 198.4					×	
PLM SOF-VERMICULITE	NYSDOH ELAP 198.8						
PLM/TEM BULK (NOB)	NY ELAP 198.6/198.4					129	
PCM AIR	NIOSH 7400						
TEM AIR	EPA AHERA						
TEM AIR	NIOSH 7402						
TEM AIR	ISO 10312						
TEM AIR	ASTM 6281-15						
TEM AIR (PCME)	ISO 10312						
TEM DUST WIPE	ASTM D6480-05 (2010)						
TEM DUST MICROVAC	ASTM D5755-09 (2014)						
TEM SOIL	ASTM D7521-16						
TEM VERMICULITE	CINCINNATI METHOD						
TEM QUALITATIVE	IN-HOUSE METHOD						
OTHER:							

Stone (judy.stone@te	INSTRUCTIONS: Bill Direct to stamericainc.com) is the lab Call Tom Giamichael at 518	PM for DEC and	Accept Samples
questions. Please em and jgironda@hansor	ail results to both tgiamicha vanvleet.com	nel@aztechenv.com	Reject Samples
Relinquished By:	Date/Time	Received By:	Date/Time
He dolaw	00/01/19 / 1200	FG	8/6/19 9:20

¹⁾ Samples will be disposed of 60 days after analysis; A minimum of 10 grams of sample is required for SOF-V analysis.

²⁾ By submitting samples, you are agreeing to ECEI's Terms and Conditions.

3) ECEI will reject any NY PCM projects that do not have at least 2 field blanks or 10% of the total number of samples in the batch, whichever is greater.

SAMPLING FORM

N19036

CE

COMPANY CONTACT INFORMATION	
Company: Hansen Van Vleet, LLC	Job Contact: Tom Giamichael / Jamie Gironda
Project Name: NYSDEC - Perfection Plating# 401037	
Project ID #: 48019790 DEC Site#401037	Tel: 518-337-7635 / 518-605-8676

SAMPLE ID#		DESCRIPTION / LOCATION	VOLUME/ AREA	Ť	EST
1A		Vinyl Tile / Office	175 sq ft	PLM	TEM 🔀
1B	•	Vinyl Tile / Office	175 sq ft	PLM	TEM 🔀
1C		Vinyl Tile / Office	175 sq ft	PLM	TEM 🔀
2A		Vinyl Tile Mastic / Office	175 sq ft	PLM	TEM 🔀
2B		Vinyl Tile Mastic / Office	175 sq ft	PLM	TEM 🔀
2C		Vinyl Tile Mastic / Office	175 sq ft	PLM	TEM 🔀
3A		Drop Ceiling Tile / Office	175 sq ft	PLM 🔀	TEM
3B	,	Drop Ceiling Tile / Office	175 sq ft	PLM 🔀	TEM
3C		Drop Ceiling Tile / Office	175 sq ft	PLM 🔀	TEM
4A	•	Window Glazing / Windows Throughout	250 lin ft	PLM	TEM 🔀
4B		Window Glazing / Windows Throughout	250 lin ft	PLM	TEM 🔀
4C	1	Window Glazing / Windows Throughout	250 lin ft	PLM	TEM 🔀
5A		Roofing Tar / Roof	450 sq ft	PLM	TEM 🔀
5B		Roofing Tar / Roof	450 sq ft	PLM	TEM 🔼
5C		Roofing Tar / Roof	450 sq ft	PLM	TEM 🔀
5D	•	Roofing Tar / Roof	450 sq ft	PLM	TEM 🔀
5E		Roofing Tar / Roof	450 sq ft	PLM	TEM 🔀
6A	•	Roofing Tar Paper / Roof	450 sq ft	PLM	TEM 🔀
6B		Roofing Tar Paper / Roof	450 sq ft	PLM	TEM 🔼
6C	•	Roofing Tar Paper / Roof	450 sq ft	PLM	TEM 🔀
				PLM	TEM
				PLM	TEM
				PLM	TEM
				PLM	TEM
				PLM	TEM
				PLM	TEM
			1	PLM	TEM
			0	PLM	TEM

Page _____of ____

2

Nickolas Rouse

From:

Courtney Dabill

Sent:

Monday, August 5, 2019 4:29 PM

To:

Nickolas Rouse

Subject:

FW: COC - Perfection Plating samples for asbestos

Attachments:

Chain-of-Custody - Perfection Plating.pdf

From: Carly Johnson

Sent: Monday, August 05, 2019 4:28 PM

To: Courtney Dabill

Subject: FW: COC - Perfection Plating samples for asbestos

Hey there,

FYI for when this project is received. It's supposed to be logged in under TA. I let her know that she should check when her client to see when they need the results because it sounds like the TAT might change?

Thanks!

Carly Johnson Senior Director, Business Development

Eurofins CEI 730 SE Maynard Road Cary, NC 27511

Office: 919-481-1413 Cell: 919-522-0745

<u>CarlyJohnson@EurofinsUS.com</u> www.eurofinsus.com/cei

From: Stone, Judy [Judy.Stone@testamericainc.com]

Sent: Monday, August 05, 2019 4:13 PM

To: Carly Johnson

Subject: FW: COC - Perfection Plating samples for asbestos

EXTERNAL EMAIL*

Carly – I thought that they were sending this to your lab earlier last week, but it appears that they may have just shipped them on 8/1/19 based on the signature on the chain of custody form – attached.

Can you check to see if you received these yet? Then when they are logged in, please send me the receipt confirmation. The final report and invoice should also come to my attention.

I noticed that they marked a 3 day TAT. If this is a rush TAT and carries a surcharge, let me know ASAP so I can confirm that they are OK with the additional charges. Gotta love clients who sit on samples and then want the lab to rush to cover their butts. ③

Company: Hansen Van Vleet, LLC			Email / Tel: tgiamichael@aztechenv.com (518-347-				
Address: 902 NY-146, Clifton Park, NY 12065			Project Name: NYSDEC - Perfection Plating#40:03				
			Project ID#	‡: 48019790	DEC Sites	#401037	-6-
Email: jgironda@hansonvanvleet.com			PO #: Callout ID: 136401				0
Tel: 518-605-8676		STATE SAMPLES COLLECTED IN: New Yo					
							8
IF TAT IS NOT MARKEL			D STANDARD 3 DAY TAT APPLIES. TURN AROUND TIME				
ASBESTOS	METHOD	4 HR	8 HR	1 DAY	2 DAY	3 DAY	ŧ
PLM BULK (FRIABLE)	NYSDOH ELAP 198.1					X	
PLM BULK (NOB)	NYSDOH ELAP 198.6					×	
TEM BULK (NOB)	NYSDOH ELAP 198.4					X	
PLM SOF-VERMICULITE	NYSDOH ELAP 198.8						
PLM/TEM BULK (NOB)	NY ELAP 198.6/198.4					×	
PCM AIR	NIOSH 7400						
TEM AIR	EPA AHERA						
TEM AIR	NIOSH 7402						
TEM AIR	ISO 10312						
TEM AIR	ASTM 6281-15						
TEM AIR (PCME)	ISO 10312						
TEM DUST WIPE	ASTM D6480-05 (2010)						
TEM DUST MICROVAC	ASTM D5755-09 (2014)						
TEM SOIL	ASTM D7521-16						
TEM VERMICULITE	CINCINNATI METHOD						
TEM QUALITATIVE	IN-HOUSE METHOD						
OTHER:							
REMARKS / SPECIAL Stone (judy.stone@tes should handle billing. questions. Please em and jgironda@hanson	stamericainc.com) is Call Tom Giamichael ail results to both tgi	the lab at 518-	PM for DE 337-7635 v	C and with any		Accept Samp	
Relinquished By: Here Adam 1) Samples will be disposed of	Date/Time			ved By:	equired for	Date/Time	
1) Samples will be disposed of	or ou days after analysis; A n	minum o	i io grains or	sample is re	quired for s	or wanalys	3.

Page 27 of 30

2) By submitting samples, you are agreeing to ECEI's Terms and Conditions.

VERSION NYGOC.07.18 Customer COC

1

2

3

4

5

6

7

ş

VERSION NYCOC.07.18 Customer COC

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA		TEST	5
1A	Vinyl Tile / Office	175 sq ft	PLM 🔀	TEM	6
1B	Vinyl Tile / Office	175 sq ft	PLM X		
1C	Vinyl Tile / Office	175 sq ft	PLM 📉		7
2A	Vinyl Tile Mastic / Office	175 sq ft	PLM 📑	TEM	8
2B	Vinyl Tile Mastic / Office	175 sq ft	PLM 📐	TEM	
2C	Vinyl Tile Mastic / Office	175 sq ft	PLM 🔀	TEM	
3A	Drop Ceiling Tile / Office	175 sq ft	PLM	TEM	X
3B	Drop Ceiling Tile / Office	175 sq ft	PLM	TEM	X
3C	Drop Ceiling Tile / Office	175 sq ft	PLM	TEM	X
4A	Window Glazing / Windows Throughout	250 lin ft	PLM 🔭	TEM	
4B	Window Glazing / Windows Throughout	250 lin ft	PLM 🔀	TEM	
4C	Window Glazing / Windows Throughout	250 lin ft	PLM 🗽	TEM	
5A	Roofing Tar / Roof	450 sq ft	PLM 🔀	TEM	
5B	Roofing Tar / Roof	450 sq ft	PLM 🔀	TEM	
5C	Roofing Tar / Roof	450 sq ft	PLM 🔀		
5D	Roofing Tar / Roof	450 sq ft	PLM 🔀		
5E	Roofing Tar / Roof	450 sq ft	PLM 🔀		
6A	Roofing Tar Paper / Roof	450 sq ft	PLM 🔀	TEM	
6B	Roofing Tar Paper / Roof	450 sq ft	PLM 🔀	TEM	
6C	Roofing Tar Paper / Roof	450 sq ft	PLM 🔀	TEM	
			PLM	TEM	
			PLM	TEM	
			PLM	TEM	
			PLM	TEM	
			PLM	TEM	
			PLM	TEM	
			PLM [TEM	
			PLM	TEM	

Page	of
Page	OI

VERSION NYCOC.07.18 **Customer COC**

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-157170-1

Login Number: 157170 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stone, Judy L

Question Answer Comment

Radioactivity either was not measured or, if measured, is at or below

background

The cooler's custody seal, if present, is intact.

The cooler or samples do not appear to have been compromised or

tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the sample IDs on the containers and the COC.

Samples are received within Holding Time (Excluding tests with immediate HTs)..

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

MONINGES

VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.

If necessary, staff have been informed of any short hold time or quick TAT needs

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Sampling Company provided.

Samples received within 48 hours of sampling.

Samples requiring field filtration have been filtered in the field.

Chlorine Residual checked.

G

New York State - Department of Labor

Division of Safety and Health License and Certificate Unit State Campus, Building 12 Albany, NY 12240

ASBESTOS HANDLING LICENSE

Hanson Van Vleet, LLC

902 Route 146

Clifton Park, NY 12065

FILE NUMBER: 05-0220 LICENSE NUMBER: 28463

LICENSE CLASS: RESTRICTED DATE OF ISSUE: 03/14/2019 EXPIRATION DATE: 03/31/2020

Duly Authorized Representative – James Gironda:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Eileen M. Franko, Director For the Commissioner of Labor

SH 432 (8/12)

STATE OF NEW YORK - DEPARTMENT OF LABOR ASBESTOS CERTIFICATE





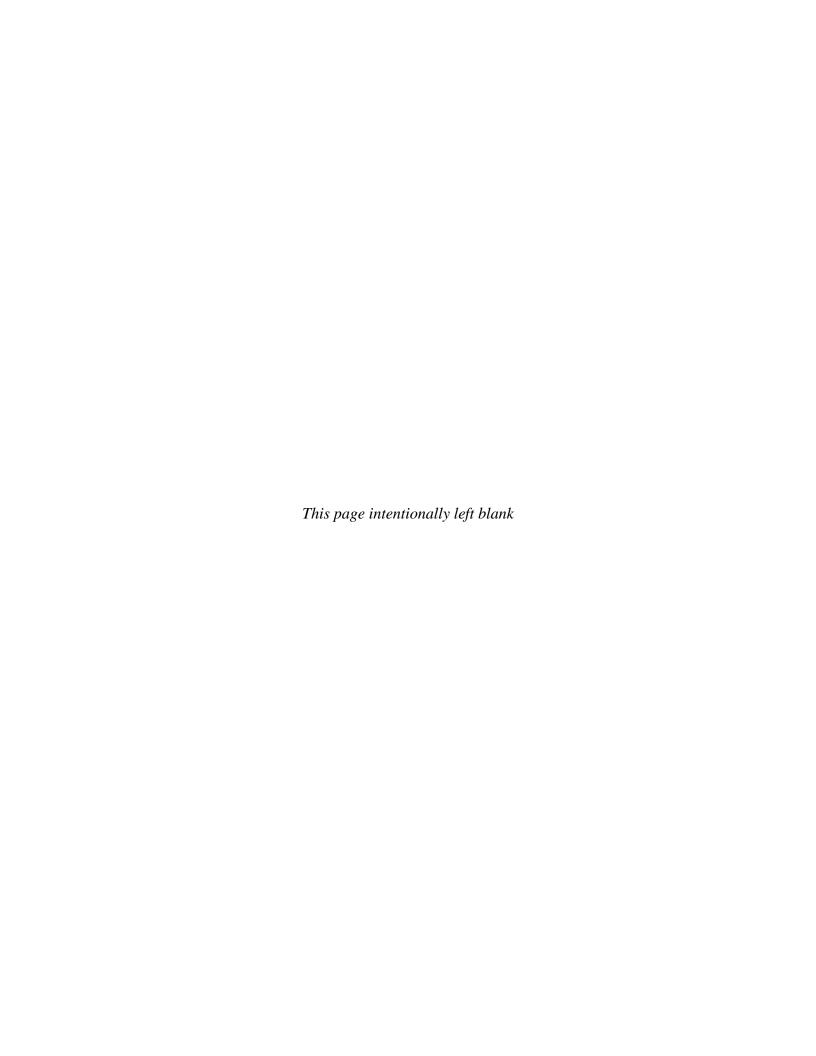
JAMES J GIRONDA CLASS(EXPIRES) D INSP(11/19)

> CERT# 07-05263 DMV# 476148045

MUST BE CARRIED ON ASBESTOS PROJECTS

Appendix E

Geophysical Survey





NEW YORK LEAK DETECTION, INC.

Field Report - Utility Location

PO Box 269, Jamesville, NY 13078 315-469-4601 info@nyld.com

Date(s) on site : 7-15-19		
Technician: Steve Carney	Other Technicians on site:	
<u>Customer</u> : EA Engineering Scie	nce & Technology	
<u>Site Address</u> : Intersection of: 12	2th Street & 8th Avenue, Watervliet, N	IY
Contact Person: Mike Wright	Phone : 315-694-2	2436
Scope of Work: Utility Location	Services UL needed prior to buildin	g demolition.
Type of Service: mark all that apply		
Leak Detection	☐ Comprehensive Leak Survey	☐ Pressurized Pipe Inspection
☐ Infrastructure Assessment		☐ Utility Mapping/AutoCAD
☐ EM Survey	☐ Video Inspection	☐ Valve Exercising
Type of Equipment Used:	mark all that apply	
☐ Profiler EMP 400		☐ MetroTech vLocPro2
☐ LC2500 Leak Correlator	⊠ Noggin 250 MHz	☐ PosiTector UTG G3
S-30 Surveyor	☐ Noggin 500 MHz	☐ Video Inspection Camera
Sonde / Locatable Rodder	☐ Conquest 1000 MHz	☐ Helium # Bottles
Leica Robotic Total Station	☐ Leica RTK GPS	☐ JD7 Investigator
☐ Valve Maintenance Trailer	☐ Thermal Imaging Camera	☐ ZCorr Data Loggers
Marking Used: mark all that apply		
	⊠ Flags	☐ Chalk/Marker
☐ Tape	☐ Updated Onsite Mapping	☐ Other



NEW YORK LEAK DETECTION, INC.

Field Report – Utility Location

PO Box 269, Jamesville, NY 13078 315-469-4601 info@nyld.com

Site Access/Safety Training: N/A	Expiration Date: N/A	
Ground Cover/Weather Conditions: Clear	· / 80's	
Instructions from Onsite Contact: Utility L	ocation Services UL needed prid	or to building demolition.
Information Transfer:		
	In addition to this field report, mark all that apply:	
	☐ Hand drawn sketch	☐ Maps updated onsite
Joe	☐ Photographs	☐ Surveyed by others
	☐ Surveyed and AutoCAD Map	pping by NYLD

Notes/Testing Results:

A visual inspection was performed in the area of concern to assess for utility structures. Utilizing the RD8000 in conductive, inductive, and power/radio modes, located and marked out utilities as shown in the area below. Sonde/Locatable Rodder was used within applicable utilities. Additional confirmation performed with the Noggin using the 250 and/or 500 MHz antenna. GPR signal reception varies depending upon soil conditions. Therefore, it is utilized in combination with various other geophysical tools for the most accurate verification of known/unknown utilities and/or structures. High voltage and communication ran overhead from utility pole Utilities were painted in appropriate color, marked with flags and paint.

This report is back up to information relayed and marked on site at time of service. It is for informational purposes only.

NYLD Infrastructure

NEW YORK LEAK DETECTION, INC.

PO Box 269, Jamesville, NY 13078 315-469-4601 info@nyld.com

Field Report - Utility Location





NYLD Infrastructure

NEW YORK LEAK DETECTION, INC.

Field Report – Utility Location

PO Box 269, Jamesville, NY 13078 315-469-4601 info@nyld.com





NYLD Infrastructure

NEW YORK LEAK DETECTION, INC.

PO Box 269, Jamesville, NY 13078 315-469-4601 info@nyld.com

Field Report – Utility Location



Key

Blue	Water
Red	Power
Orange	Communications
Yellow	Gas/Flammable Fuel
Pink	Unknown
Green	Storm/Sanitary

Rev 6-1-18 5



NEW YORK LEAK DETECTION, INC.

Field Report – Utility Location

PO Box 269, Jamesville, NY 13078 315-469-4601 info@nyld.com

Subsurface Limitations

Utility locating is the art and science of using non-intrusive methods to search for, find and mark out buried, unseen conduits or other objects. There are innumerable variables involved in locating underground utilities, such as topography, size and complexity of job site, depth and proximity of buried utilities, above ground obstructions, short turnaround schedules, changes in the scope of work, lack of (or outdated) blueprints and adverse weather conditions.

New York Leak Detection, Inc. (NYLD) has made a substantial financial investment in crossover technologies and training to meet our clients' needs when locating and mapping utilities. However, due to unpredictable factors that may affect the results, NYLD makes no guarantee, expressed or implied, with respect to the completeness or accuracy of the information provided. Any use or reliance on the information or opinion is at the risk of the user and NYLD shall not be liable for any damage or injury arising out of the use or misuse of the information provided.

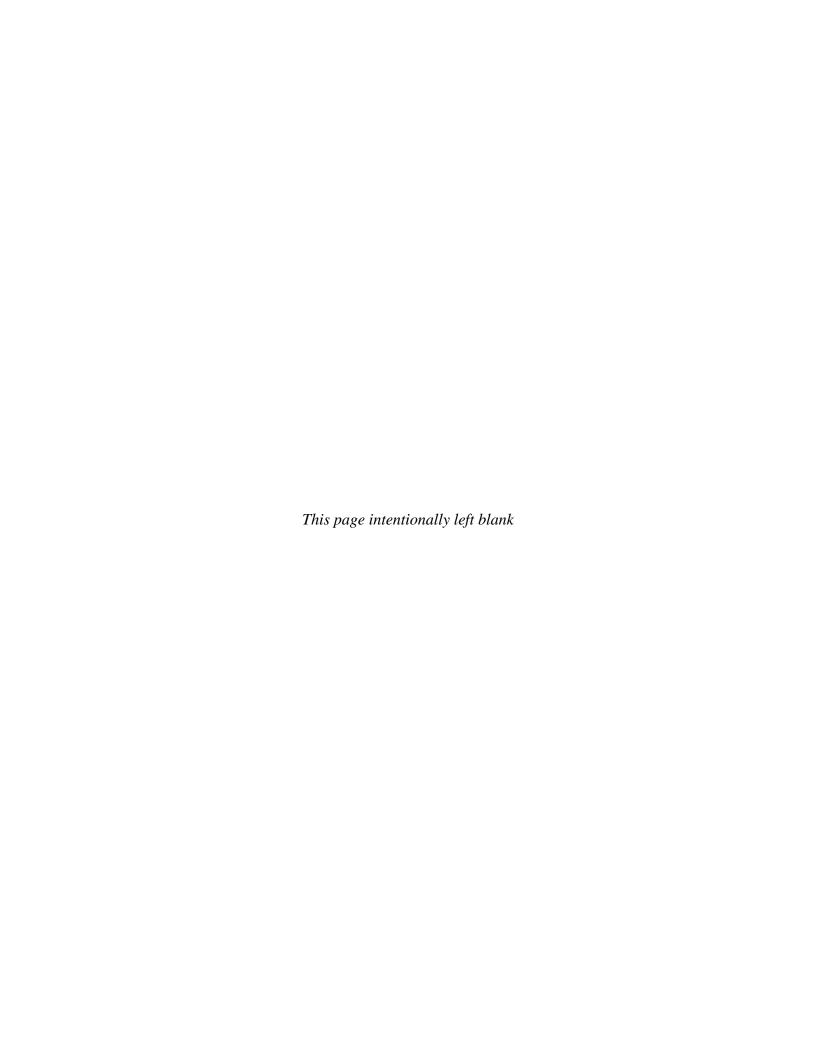
NYLD strives to provide the highest quality utility location services possible with the technical expertise of our field specialists and state-of-the-art equipment used. Every effort is made to provide our clients with the most accurate information possible without adverse consequences.

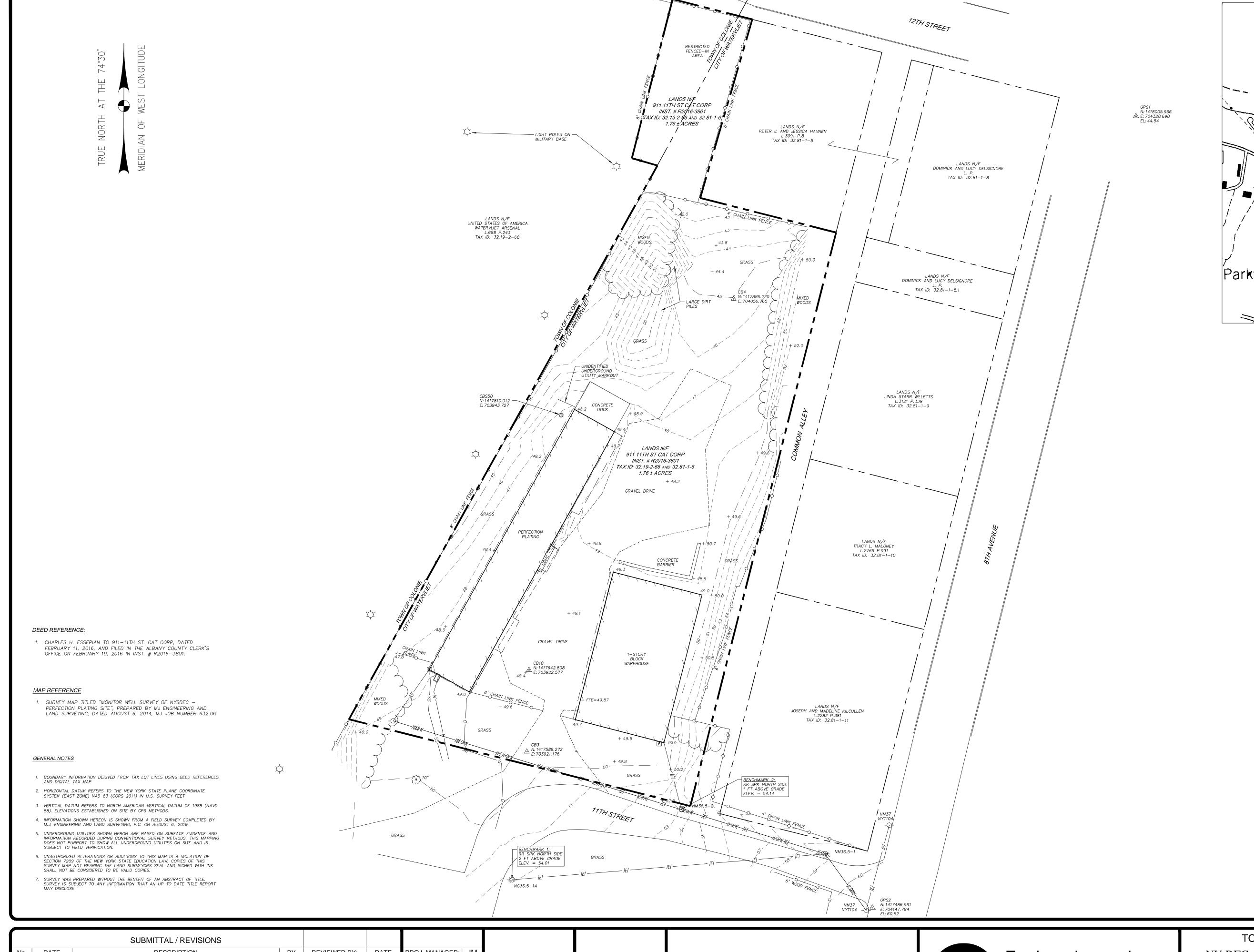
NYLD makes no guarantee that all subsurface utilities and obstructions will be detected. GPR signal penetration might not be sufficient to detect all utilities. NYLD is not responsible for detecting subsurface utilities and obstructions that normally cannot be detected by the methods employed or that cannot be detected because of site conditions. NYLD is not responsible for maintaining markouts after leaving the work area. Mark-outs made in inclement weather and in high traffic areas may not last. Surveyor assumes responsibility of picking up data on site.

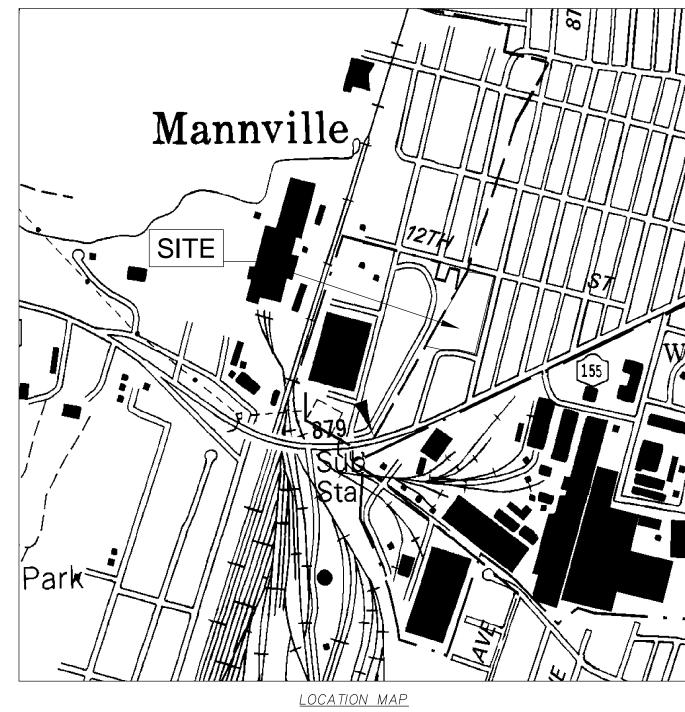
Rev 6-1-18 6

Appendix F

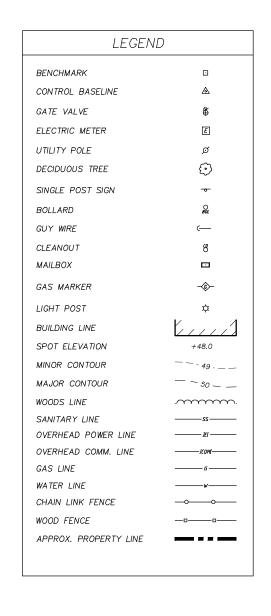
Site Survey

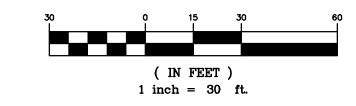




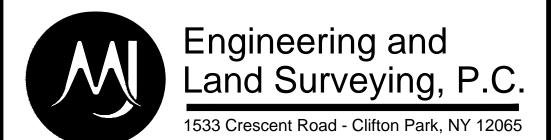


NOT TO SCALE





		SUBMITTAL / REVISIONS					
No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE	PROJ. MANAGER:	JM
						CHIEF DESIGNER:	:
						DESIGNED BY:	
						DRAWN BY:	JDK
						CHECKED BY:	MJF



TOPOGRAPHIC SURVEY OF NY DEC - PERFECTION PLATING SITE 911 11TH STREET

PREPARED FOR: EA SCIENCE AND TECHNOLOGY **NEW YORK**

MJ PROJ. No.: 632.06 DATE: 08/28/2019

CONTRACT No.:

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, (I.E.) ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR THE CITY OF WATERVLIET LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR. **ALBANY COUNTY**

