

**BUOY 212 DREDGE SPOIL DISPOSAL AREA  
WASHINGTON COUNTY  
FORT EDWARD, NEW YORK**

---

**SITE MANAGEMENT PLAN**

**NYSDEC Site Number: 558018**

**Prepared for:**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
625 Broadway  
Albany, New York 12233

**Prepared by:**

Ecology and Environment Engineering and Geology, P.C.  
40 La Riviere Drive, Suite 320  
Buffalo, NY 14202  
716.853.1220

**Revisions to Final Approved Site Management Plan:**

<b>Revision No.</b>	<b>Date Submitted</b>	<b>Summary of Revision</b>	<b>NYSDEC Approval Date</b>

---

**FEBRUARY 2026**

CERTIFICATION STATEMENT

I ASHLEE SMITH, P.E. certify that I am currently a NYS registered professional engineer as in defined in 6 NYCRR Part 375 and that this Site Management Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).



\_\_\_\_\_  
February 19, 2026

P.E.

DATE

TABLE OF CONTENTS

**BUOY 212 DREDGE SPOIL DISPOSAL AREA  
WASHINGTON COUNTY  
FORT EDWARD, NEW YORK  
  
SITE MANAGEMENT PLAN**

**Table of Contents**

<u>Section</u>	<u>Description</u>	<u>Page</u>
	<b>LIST OF ACRONYMS .....</b>	<b>7</b>
<b>ES</b>	<b>EXECUTIVE SUMMARY .....</b>	<b>8</b>
<b>1.0</b>	<b>INTRODUCTION.....</b>	<b>9</b>
	1.1 General.....	9
	1.2 Revisions and Alterations .....	10
	1.3 Notifications.....	11
<b>2.0</b>	<b>SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIONS .....</b>	<b>15</b>
	2.1 Site Location and Description.....	15
	2.2 Physical Setting.....	15
	2.2.1 Land Use .....	15
	2.2.2 Geology.....	17
	2.2.3 Hydrogeology .....	17
	2.3 Investigation and Remedial History.....	18
	2.4 Remedial Action Objectives .....	21
	2.5 Remaining Contamination .....	22
	2.5.1 Soil .....	22
<b>3.0</b>	<b>INSTITUTIONAL AND ENGINEERING CONTROL PLAN.....</b>	<b>45</b>
	3.1 General.....	45
	3.2 Institutional Controls .....	45

TABLE OF CONTENTS (Continued)

3.3	Engineering Controls .....	46
3.3.1	Cover (or Cap) .....	46
<b>4.0</b>	<b>MONITORING AND SAMPLING PLAN.....</b>	<b>48</b>
4.1	General.....	48
4.2	Site – wide Inspection.....	49
4.3	Post-Remediation Media Monitoring and Sampling .....	51
4.3.1	Groundwater Sampling .....	52
4.3.2	Monitoring and Sampling Protocol.....	55
<b>5.0</b>	<b>OPERATION AND MAINTENANCE PLAN .....</b>	<b>56</b>
5.1	General.....	56
<b>6.0</b>	<b>PERIODIC ASSESSMENTS/EVALUATIONS .....</b>	<b>57</b>
6.1	Climate Change Vulnerability Assessment .....	57
6.2	Green Remediation Evaluation.....	57
6.2.1	Frequency of System Checks, Sampling and Other Periodic Activities.....	58
6.2.2	Metrics and Reporting.....	58
<b>7.0.</b>	<b>REPORTING REQUIREMENTS .....</b>	<b>59</b>
7.1	Site Management Reports .....	59
7.2	Quarterly Inspection Report.....	61
7.3	Periodic Review Report .....	61
7.3.1	Certification of Institutional and Engineering Controls.....	63
7.4	Corrective Measures Work Plan .....	65
<b>8.0</b>	<b>REFERENCES.....</b>	<b>66</b>

## TABLE OF CONTENTS (Continued)

### List of Tables

	<u>Page</u>
Table 1-1: Notifications .....	12
Table 2-1a Summary of Total PCB Concentrations in Drainage Network Soil Samples .....	28
Table 2-1b Summary of Metals Concentrations in Drainage Network Soil Samples .....	29
Table 2-2a Summary of Total PCB Concentrations in Surface Soil Samples .....	31
Table 2-2b Summary of Metals Concentrations in Surface Soil Samples.....	33
Table 2-3a Summary of Total PCB Concentrations in Monitoring Well Subsurface Soil Samples .....	35
Table 2-3b Summary of Metals Concentrations in Monitoring Well Subsurface Soil Samples .....	36
Table 2-4a Summary of Total PCB Concentrations in Borehole Subsurface Soil Samples .....	38
Table 2-4b Summary of Metals Concentrations in Borehole Subsurface Soil Samples .....	42
Table 4-1: Post Remediation Sampling Requirements and Schedule.....	51
Table 4-2: Monitoring Well Construction Details, Buoy 212 Dredge Spoil Disposal Area, Fort Edward, New York .....	53
Table 7-1: Schedule of Interim Monitoring/Inspection Reports.....	59

### List of Figures

	<u>Page</u>
Figure 1-1: Site Location and Topography, Buoy 212 Dredge Spoil Disposal Area .....	13
Figure 1-2: Buoy 212, Dredge Spoil Disposal Area, Fort Edward, New York.....	14
Figure 2-1: Approximate Extent of Dredge Spoil and Cover Materials, Buoy 212 Dredge Spoil Disposal Area, Fort Edward, New York.....	25
Figure 2-2: Surface Soil and Drainage Way Soil PCB Concentrations, Buoy 212 Dredge Spoil Disposal Area, Fort Edward, New York.....	26
Figure 2-3: Subsurface Borehole and monitoring Well Sampling Locations, Buoy 212 Dredge Spoil Disposal Area, Fort Edward, New York .....	27
Figure 4-1: Location of Monitoring Wells, Buoy 212 Dredge Soil Disposal Area, Fort Edward, New York .....	54

TABLE OF CONTENTS (Continued)

**List of Appendices**

---

	<u>Page</u>
<b>APPENDIX A – ENVIRONMENTAL NOTICE.....</b>	<b>A-1</b>
<b>APPENDIX B – LIST OF SITE CONTACTS .....</b>	<b>B-1</b>
<b>APPENDIX C – SITE SPECIFIC BORING LOGS.....</b>	<b>C-1</b>
<b>APPENDIX D – EXCAVATION WORK PLAN (EWP).....</b>	<b>D-1</b>
<b>APPENDIX E – HEALTH AND SAFETY PLAN.....</b>	<b>E-1</b>
<b>APPENDIX F – QUALITY ASSURANCE PROJECT PLAN.....</b>	<b>F-1</b>
<b>APPENDIX G – SITE MANAGEMENT FORMS .....</b>	<b>G-1</b>
<b>APPENDIX H – FIELD ACTIVITIES PLAN .....</b>	<b>H-1</b>
<b>APPENDIX I – MONITORING WELL CONSTRUCTION LOGS.....</b>	<b>I-1</b>
<b>APPENDIX J – REQUEST TO IMPORT/REUSE FILL MATERIAL FORM.....</b>	<b>J-1</b>
<b>APPENDIX K – RESPONSIBILITIES OF OWNER.....</b>	<b>K-1</b>

## **List of Acronyms**

ASP	Analytical Services Protocol
CAMP	Community Air Monitoring Plan
CFR	Code of Federal Regulation
COC	Certificate of Completion
CP	Commissioner Policy
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Report
EC	Engineering Control
ECL	Environmental Conservation Law
EWP	Excavation Work Plan
HASP	Health and Safety Plan
IC	Institutional Control
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYCRR	New York Codes, Rules and Regulations
O&M	Operation and Maintenance
OM&M	Operation, Maintenance and Monitoring
OSHA	Occupational Safety and Health Administration
P.E. or PE	Professional Engineer
PFAS	Per- and Polyfluoroalkyl Substances
PRR	Periodic Review Report
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
QEP	Qualified Environmental Professional
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
SCG	Standards, Criteria and Guidelines
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SPDES	State Pollutant Discharge Elimination System
SSD	Sub-slab Depressurization
TAL	Target Analyte List
TCL	Target Compound List
USEPA	United States Environmental Protection Agency

**ES EXECUTIVE SUMMARY**

The following provides a brief summary of the controls implemented for the Site, as well as the inspections, monitoring, maintenance and reporting activities required by this Site Management Plan (SMP):

Site Identification: 558018 BUOY 212 DREDGE SPOIL DISPOSAL AREA, WASHINGTON COUNTY, FORT EDWARD, NEW YORK

Institutional Controls:	1. The property may be used for commercial and industrial use	
	2. Groundwater Use Restrictions	
	3. Compliance with this SMP	
	4. All ECs must be inspected at a frequency and in a manner defined in the SMP.	
	5. Environmental Notice/Easement	
Engineering Controls:	1. Cover system	
	2. Fence	
Inspections:		Frequency
1. Cover inspection – of impervious cap, cover material over cap, and grass cover		Quarterly
2. Monitoring well inspection		Quarterly
3. Inspection of fences, gates, and signs		Quarterly
Monitoring:		
1. Groundwater Monitoring Wells MW-1, MW-2, MW-3D, MW-3S, MW-05, MW-06, and MW-07		Semi-annually
Maintenance:		
1. Mowing to keep grass at a height of 6 inches or less		As needed
Reporting:		
1. Inspection Report	Quarterly	
2. Periodic Review Report (PRR)	Annually	

Further descriptions of the above requirements are provided in detail in the latter sections of this Site Management Plan.

## **1.0 INTRODUCTION**

### **1.1 General**

This SMP is a required element of the remedial program for the Buoy 212 Dredge Spoil Disposal Area located in Fort Edward, New York (hereinafter referred to as the “Site”). See Figure 1-1. The Site is currently in the New York State (NYS) Superfund Program, Site No. 558018, which is administered by New York State Department of Environmental Conservation (NYSDEC).

NYS Department of Transportation (NYSDOT) entered into a Consent Decree on March 23, 1994 with the United States Environmental Protection Agency (USEPA) to remediate the site and to continue maintenance and monitoring of the Site. A figure showing the site location and boundaries of this site is provided in Figure 1-2. The boundaries of the site are more fully described in the metes and bounds site description that is part of the Environmental Notice provided in Appendix A. NYSDOT is required to continue all operation, maintenance, and monitoring activities at this site under the governing TSCA authorization for the Buoy 212 Dredge Spoil Disposal Area.

After completion of the remedial work, some contamination was left at this site, which is hereafter referred to as “remaining contamination”. Institutional and Engineering Controls (ICs and ECs) have been incorporated into the site remedy to control exposure to remaining contamination to ensure protection of public health and the environment. An Environmental Notice that will be prepared by the NYSDEC, and recorded with the Washington County Clerk, requires compliance with this SMP and all ECs and ICs placed on the site.

This SMP was prepared to manage remaining contamination at the site until the Environmental Notice is extinguished in accordance with Environmental Conservation Law (ECL) Article 71, Title 36. This plan has been approved by the NYSDEC, and compliance with this plan is required by the grantor of the Environmental Notice and the grantor’s successors and assigns. This SMP may only be revised with the approval of the NYSDEC.

It is important to note that:

- This SMP details the site-specific implementation procedures that are required by the Environmental Notice and Environmental Easement. Failure to properly implement the SMP is a violation of the Environmental Notice, which is grounds for revocation of the Certificate of Completion (COC);
- Failure to comply with this SMP is also a violation of Environmental Conservation Law, 6 New York Codes, Rules and Regulations (NYCRR) Part 375 and the Consent Decree (#89-CV-319; Site #558018) for the site, and thereby subject to applicable penalties.

All reports associated with the site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State. A list of contacts for persons involved with the site is provided in Appendix B of this SMP.

This SMP was prepared by Ecology and Environment Engineering and Geology, P.C., on behalf of NYSDEC, in accordance with the requirements of the NYSDEC's Division of Environmental Remediation (DER)-10 ("Technical Guidance for Site Investigation and Remediation"), dated May 3, 2010, and the guidelines provided by the NYSDEC. This SMP addresses the means for implementing the ICs and/or ECs that are required by the Environmental Notice for the site.

## **1.2 Revisions and Alterations**

Revisions and alterations to this plan will be proposed in writing to the NYSDEC's project manager. The NYSDEC can also make changes to the SMP or request revisions from the remedial party. Revisions will be necessary upon, but not limited to, the following occurring: a change in media monitoring requirements, upgrades to or shutdown of a remedial system, post-remedial removal of contaminated sediment or soil, or other significant change to the site conditions. All approved alterations must conform with Article 145 Section 7209 of the Education Law regarding the application of professional seals and alterations. For example, any changes to as-built drawings must be stamped by a New York State Professional Engineer. In accordance with the Environmental Notice for

the site, the NYSDEC project manager will provide a notice of any approved changes to the SMP, and append these notices to the SMP that is retained in its files.

### **1.3 Notifications**

Notifications will be submitted by the property owner to the NYSDEC, as needed, in accordance with NYSDEC's DER – 10 for the following reasons:

1. 60-day advance notice of any proposed changes in site use that are required under the terms of the Consent Decree, 6 NYCRR Part 375 and/or Environmental Conservation Law.
2. 7-day advance notice of any field activity associated with the remedial program.
3. 15-day advance notice of any proposed ground-intrusive activity pursuant to the Excavation Work Plan. If the ground-intrusive activity qualifies as a change of use as defined in 6 NYCRR Part 375, the above mentioned 60-day advance notice is also required.
4. Notice within 48 hours of any damage or defect to the foundation, structures or EC that reduces or has the potential to reduce the effectiveness of an EC, and likewise, any action to be taken to mitigate the damage or defect.
5. Notice within 48 hours of any non-routine maintenance activities.
6. Verbal notice by noon of the following day of any emergency, such as a fire; flood; or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
7. Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action submitted to the NYSDEC within 45 days describing and documenting actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the site or the responsibility for implementing this SMP will include the following notifications:

1. At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective

purchaser/Remedial Party has been provided with a copy of the Consent Decree, and all approved work plans and reports, including this SMP.

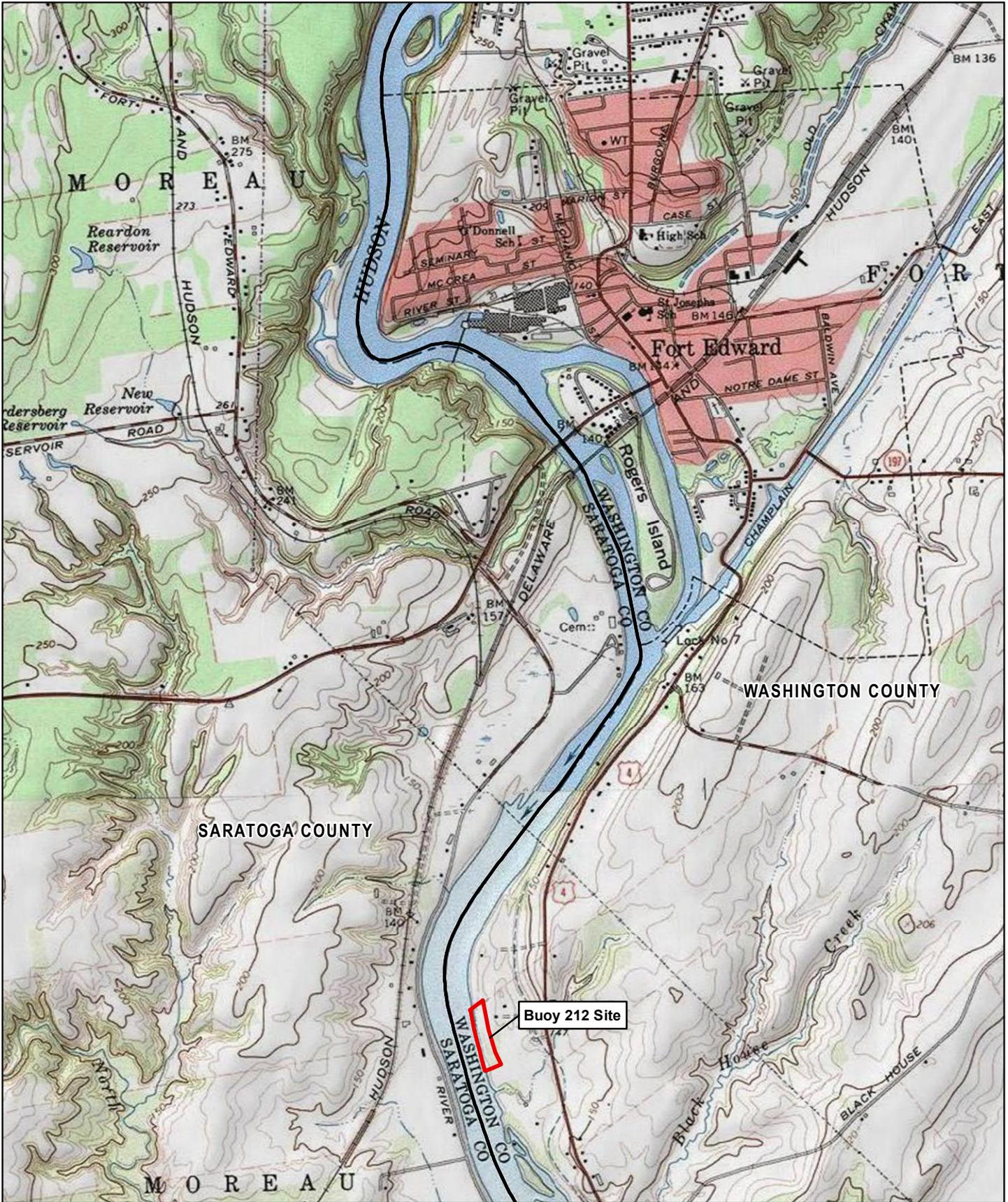
2. Within 15 days after the transfer of all or part of the site, the new owner’s name, contact representative, and contact information will be confirmed in writing to the NYSDEC.

Table 1-1 on the following page includes contact information for the above notifications. The information on this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in Appendix B.

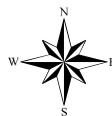
**Table 1-1: Notifications\***

<b><u>Name</u></b>	<b><u>Contact Information</u></b>	<b><u>Required Notification</u></b>
Elyse DuBois, NYSDEC Project Manager	518-402-0031 elyse.dubois@dec.ny.gov	All Notifications
Benjamin Rung, NYSDEC Section Chief	518-402-9826 benjamin.rung@dec.ny.gov	All Notifications
Sarita Wagh, NYSDOH	518-402-7860 sarita.wagh@health.ny.gov	All Notifications

\* Note: Notifications are subject to change and will be updated as necessary.



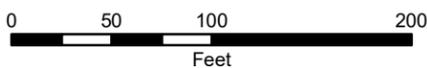
 Approximate Site Boundary  
 County Boundary



**Figure 1-1**  
**Site Location and Topography**  
**Buoy 212 Dredge Spoil Disposal Area**



----- Fence



**Figure 1-2**  
**Buoy 212**  
**Dredge Spoil Disposal Area**  
**Fort Edward, New York**

## **2.0 SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIONS**

### **2.1 Site Location and Description**

The Buoy 212 Dredge Spoil Disposal Area site is located along the eastern shore of the Hudson River in the Town of Fort Edward (Washington County), about 1.3 miles down-river (south) of Champlain Canal Lock 7 and near the floating red nun Buoy 212 that marks the eastern margin of the navigation channel of the Champlain Canal within the Hudson River.

The owner of the site parcel at the time of issuance of this SMP is:

Bruce Feldman  
New York State Department of Transportation  
50 Wolf Road  
Albany NY 12233

The operators of the site parcel at the time of issuance of this SMP is/are:

Bruce Feldman  
New York State Department of Transportation  
50 Wolf Road  
Albany NY 12233

Brian U. Stratton  
New York State Canal Corporation  
200 Southern Blvd. P.O. Box 189  
Albany NY 12201-0189

### **2.2 Physical Setting**

#### **2.2.1 Land Use**

The parcel is State-owned and undeveloped and best fits into a marine commercial classification. Personnel from the NYSDOT inspect and sample the groundwater monitoring wells and maintain the site under the TSCA program and

Consent Decree 89-CV-319 filed in March 1994.

The site consists of a closed and covered basin and earthen containment berm complex built by the Waterways Maintenance Division of the New York State Department of Transportation (NYSDOT) to dewater and hold sediment removed from the Champlain Canal/Hudson River navigation channel south of Canal Lock 7. In its present closed and covered state, the dredge spoil disposal structure is about 200 feet wide and extends about 850 feet along the shore of the Hudson River with a footprint covering nearly 4.1 acres on a parcel owned by New York State. The adjoining property to the north is privately owned and occupied by a single dwelling and a few out-buildings. The residence on this property is connected to a public water supply. The adjoining property to the east is occupied by a single dwelling and several out-buildings and small service structures. There is a private well on this property that draws water from the overburden aquifer. The well is approximately 300 feet away from the eastern margin of the site. The adjoining property to the south is an open field and was formerly used as a temporary support area and access point to the Hudson River for the Hudson River Dredging Project.

The Hudson River and the Champlain Canal adjacent to Buoy 212 are part of the USEPA's Hudson River PCBs Superfund Site as listed on the National Priority List (NPL) and listed in the Department's 'Registry of Inactive Hazardous Waste Disposal Sites in New York State' under site number 546031 with a Class 2 designation (a site where hazardous waste disposal has been confirmed and presents a significant threat to public health and/or the environment - action is required). PCBs, from two upstream General Electric plant site sources, are the main contaminants of concern for this NPL site. These wastes, sporadically entrained within the sediment of the Hudson River and subsequently removed with some of the sediment from the Champlain Canal/Hudson River navigation channel as dredge spoil material in the past, have contaminated the soils at the Buoy 212 site.

### 2.2.2 Geology

The geologic setting for the Buoy 212 site has a varied mixture of silts, sands, gravel, and clay and that were placed over bedrock by natural processes and a varied mixture of sand, silt, shale fragments, and debris that were placed over the earlier lacustrine and alluvial deposits by unnatural processes a relatively short time ago.

The overburden materials in the natural setting are located in most areas outside of the basin and berm system at the site. The overall thickness of these native soils at Buoy 212 is not known, but earlier work by others report similar undisturbed silts, sands, gravel, and clay to a depth about 40 feet lower than the bottom of the Buoy 212 dredge spoil disposal structure.

The overburden materials in the unnatural setting are best described as mechanically reworked native soil mixed with dredge spoil materials in the closed and covered dredge spoil disposal structure. The dredge spoils are typically dark gray to black, fine to medium sands with varying amounts of silt, black shale fragments, pebble gravel, brick fragments, coal fragments, fused slag, glass shards, and wood debris. Based on observations made during borehole drilling and sampling, materials that could be characterized as dredge spoils varied in thickness from a few inches to nearly 13 feet.

Site specific boring logs are provided in Appendix C.

### 2.2.3 Hydrogeology

#### **Surface Drainage and Runoff**

The entire closed and covered dredge spoil disposal structure, and the parcel of land occupied by it, is covered with grasses, trees, and other vegetation. Overland water flow at the Buoy 212 site occurs primarily during heavy precipitation events or spring snow melts as surface runoff. During heavy precipitation events, runoff is shed radially away from the higher areas of the closed and covered dredge spoil disposal area to the topographic low areas along the eastern and western margins. Along the eastern margin,

runoff from Buoy 212 and nearby areas intermittently flows southward and collects in the southeastern part of the Buoy 212 property. Water that intermittently collects in this area has the potential to drain from the east side of the closed and covered former dredge spoil disposal structure to the west side through a steel culvert when the water level is high enough to spill through. Once on the west side of the dredge spoil disposal structure, the water drains across a narrow floodplain shelf to the adjacent Hudson River. When the volume of collected water is not great enough to spill through the steel culvert, the runoff either infiltrates and/or evaporates without reaching the Hudson River as direct runoff. Along the western margin, runoff accumulates in the lowest portions of the narrow floodplain shelf and either drains slowly into the Hudson River through breaks in the natural and armored bank levy or infiltrates and/or evaporates without reaching the Hudson River as direct runoff.

### **Groundwater**

To assist with the interpretation of groundwater movements and tendencies at the Buoy 212 site, a round of static water level elevation readings were collected at the beginning of the four groundwater sampling events in March, June, September, and December 2006. Groundwater elevations across the site ranged from approximately 118 feet to 123 feet above mean sea level during the investigation period. As expected, the lowest groundwater elevations were observed during the September monitoring event, when seasonal precipitation was relatively low.

Mapping shows that groundwater flow at this site typically moves away from the topographic rise on the eastern side and toward the Hudson River in a general west-southwest direction. Based on groundwater elevation measurements and other observations made during the RI, lines of equal groundwater elevation are nearly parallel with the shore of the river and groundwater appears to flow through the native overburden soils just below the dredge spoil materials placed at the site most of the year.

## **2.3 Investigation and Remedial History**

A single unlined settling basin and baffle system was constructed at this site by the Waterways Maintenance Division of the NYSDOT and was used to dewater and hold dredge spoil material removed from the Champlain Canal/Hudson River navigation

channel south of Champlain Canal Lock 7 - with emphasis on the navigation channel in the Hudson River between the Buoy 212 and Buoy 216 channel markers - in conjunction with routine and emergency maintenance dredging operations of the Canal System. The unlined settling basin system at this site was initially constructed by excavating the native soils on the property slightly and grading the displaced soils outward and upward to form the various containment berms. During subsequent maintenance operations, it is likely that some of the older dredge spoil materials were re-graded in order to deepen the settling basin and accommodate the disposal of additional dredge spoil materials. Available NYSDOT records report that the Buoy 212 dredge spoil disposal area was used between 1970 and 1979. The records covering this period report the disposal of an unspecified volume of the 283,021 cubic yards of dredge spoil material processed in 1970 for the given stretch of River and the disposal of 28,725 cubic yards in 1976 from the navigation channel between the Buoy 212 and Buoy 216 channel markers. Records also indicate that dredge spoils were also placed at Buoy 212 in 1979, but do not provide a specific volume out of the 66,930 cubic yards processed that year for the given stretch of River. The Buoy 212 site was last used in 1979.

The following narrative provides a remedial history timeline and a brief summary of the available project records to document key investigative and remedial milestones for the Site. Full titles for each of the reports referenced below are provided in Section 8.0 - References.

During an assessment of areas with possible PCB contamination in the Upper Hudson River Valley completed by Weston Environmental for NYSDEC in 1978, it was found that the soils/dredge spoil materials at this site were contaminated with PCBs at levels up to 264 parts per million (ppm). As mentioned previously, the Buoy 212 site was last used in 1979 and covered with between six and 24 inches of sand and seeded. Monitoring wells were also installed and a monitoring program was established. These actions were done in compliance with Toxic Substances Control Act (TSCA) requirements imposed by the EPA when they issued an approval for the temporary storage/disposal of PCB-laden material at this site in September 1979. Monitoring confirmed PCB

contamination in the local groundwater and shallow soils at the site and a soil sampling program initiated in 1989 confirmed PCB contamination at the site within the limits of the closed dredge spoil disposal structure.

In May of 1989, NYSDEC listed the site as a Class 2 site in the Registry of Inactive Hazardous Waste Disposal Sites in New York State. A Class 2 site is a site where hazardous waste presents a significant threat to the public health or the environment and action is required.

In 1991, a TSCA-approved clay cover was added over the existing “standard turf” cover. The new cover was constructed by the NYSDOT and the earlier monitoring wells were replaced. The new cover added a six-inch to five-foot thick layer of clay over the entire closed structure. Subsequent monitoring demonstrated that PCB levels in the local groundwater diminished such that PCBs were no longer detected in the groundwater following the installation of the TSCA-approved cover. A follow-up assessment completed by Malcolm Pirnie in 1992 for NYSDEC confirmed the presence of PCB contamination at the Buoy 212 site at levels greater than 50 ppm, the definition of hazardous waste, in five of the 21 samples that had reportable PCB detections. PCB concentrations for all samples ranged between non-detect (less than 2 ppm) and 180 ppm. Based on the results of the Malcolm Pirnie study, it was estimated that the Buoy 212 site contained 65,500 CY of contaminated soil with a PCB concentration greater than 2 ppm. The mass of PCBs at this site was also estimated to be 7,000 pounds in the Malcolm Pirnie report.

The site was removed from the New York State Registry of Inactive Hazardous Waste Disposal Sites in March 1998 because it was determined that TSCA facilities do not meet the definition of inactive sites. Personnel from NYSDOT inspect and sample the groundwater monitoring wells and maintain the site under the TSCA program and a Consent Decree issued in March 1994 by EPA.

A series of 11 surface soil samples and two nearshore floodplain/sediment samples were collected from the adjoining residential property to the north of the Buoy 212 site in August of 1998 by NYSDEC. PCBs were detected at concentrations of 10.4 ppm and 19.94 ppm in two of the 11 surface soil samples - and at concentrations of 1 ppm and 6.5 ppm in the two nearshore floodplain/ sediment samples. These findings were included in the NYSDEC's "July 2001 Dredge Spoils Investigation Report."

In 2005, NYSDEC contracted EEEPC to perform the Buoy 212 Remedial Investigation (RI)/Feasibility Study (FS) to characterize the nature and extent of contamination at the site and to develop remedial alternatives to address that contamination. Reports covering the details of RI/FS were finalized in February 2011. In these reports, it was estimated that the Buoy 212 site contains approximately 56,000 CY of contaminated material.

An Interim Remedial Measure (IRM) was completed in August 2010 to address an area where PCB-contaminated soils/dredge spoil materials were identified on an adjacent property at concentrations above 0.1 ppm (the unrestricted use Standards, Criteria and Guidance value). Approximately 100 CY of PCB-contaminated soils/dredge spoil materials were excavated and removed to an off-site disposal facility during the IRM Soil Removal Program. Subsequent soil sampling confirmed that the remedial measure was effective and successful. The causeway has been restored with clean materials (Precision Environmental Services 2010).

## **2.4 Remedial Action Objectives**

The Remedial Action Objectives (RAOs) for the Site as listed in the Record of Decision (ROD) dated March 2011 are as follows:

### **Soil**

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.

#### RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through the terrestrial food chain.

## 2.5 Remaining Contamination

### 2.5.1 Soil

#### **Waste Materials**

Dredge spoil materials derived from sediment sporadically tainted with PCBs and metals (cadmium, chromium, lead, and mercury) in the Hudson River and subsequently removed from the Champlain Canal/Hudson River navigation channel in the past, are the waste materials at the site. Sampling at the site in 1978 confirmed that the dredge spoil materials/soils placed at the site were contaminated with PCBs at levels up to 264 ppm. Another soil sampling program initiated in 1989 confirmed PCB contamination at the site within the limits of the closed dredge spoil disposal structure. Following the construction of TSCA-approved cover, an assessment done in 1992 confirmed the presence of PCB contamination at the site at levels greater than 50 ppm, the definition of hazardous waste, in 5 of the 21 samples that had reportable PCB detections. PCB concentrations for all samples ranged between non-detect (less than 2 ppm) and 180 ppm. Figure 2-1 shows the approximate extent of dredge spoil materials and cover materials at the Site.

#### **Surface Soil**

Surface soil samples (covering the 0 to 2-inch soil depth interval) were collected from 72 locations during the RI in 2005. Samples from the surface at each exploration borehole, monitoring well borehole, and drainage water sampling point contributed to the overall surface soil assessment. Results confirm PCBs at 44 surface soil sampling points with 22 samples reporting concentrations above 0.1 ppm (the unrestricted use Standards,

Criteria and Guidelines [SCG]) and 14 samples reporting concentrations above 1.0 ppm (the restricted use - commercial soil cleanup objective [SCO] applicable to this site). The highest PCB concentration in surface soil was 9.9 ppm collected from the Hudson River floodplain along the southwestern margin of the closed and covered dredge spoil disposal structure. Exceedances of the applicable SCGs are mainly found in samples collected from the floodplain area (14 of the 22 samples reporting concentrations above 0.1 ppm and 6 of the 14 samples reporting concentrations above 1.0 ppm) and are not considered site-related. The other exceedances were found in samples collected along the margins of the cover over the site or on top of the cover in the vicinity of areas where burrowing animals have brought dredge spoil materials to the surface.

The results also indicate that chromium, lead and mercury (metals that may be attributable to the contaminated dredge spoil materials at the site or, in some cases, historical and reoccurring floodplain deposition of contaminated Hudson River sediments) were found at levels exceeding their respective unrestricted and commercial use SCG values in a few samples.

Figure 2-2 shows the analytical results for PCBs from the surface soil and drainage way samples collected during the RI. Tables 2-1a and 2-1b provide the RI analytical results for PCBs and metals, respectively, in the drainage network soil samples. Tables 2-2a and 2-2b provide the RI analytical results for PCBs and metals, respectively, in the surface soil samples.

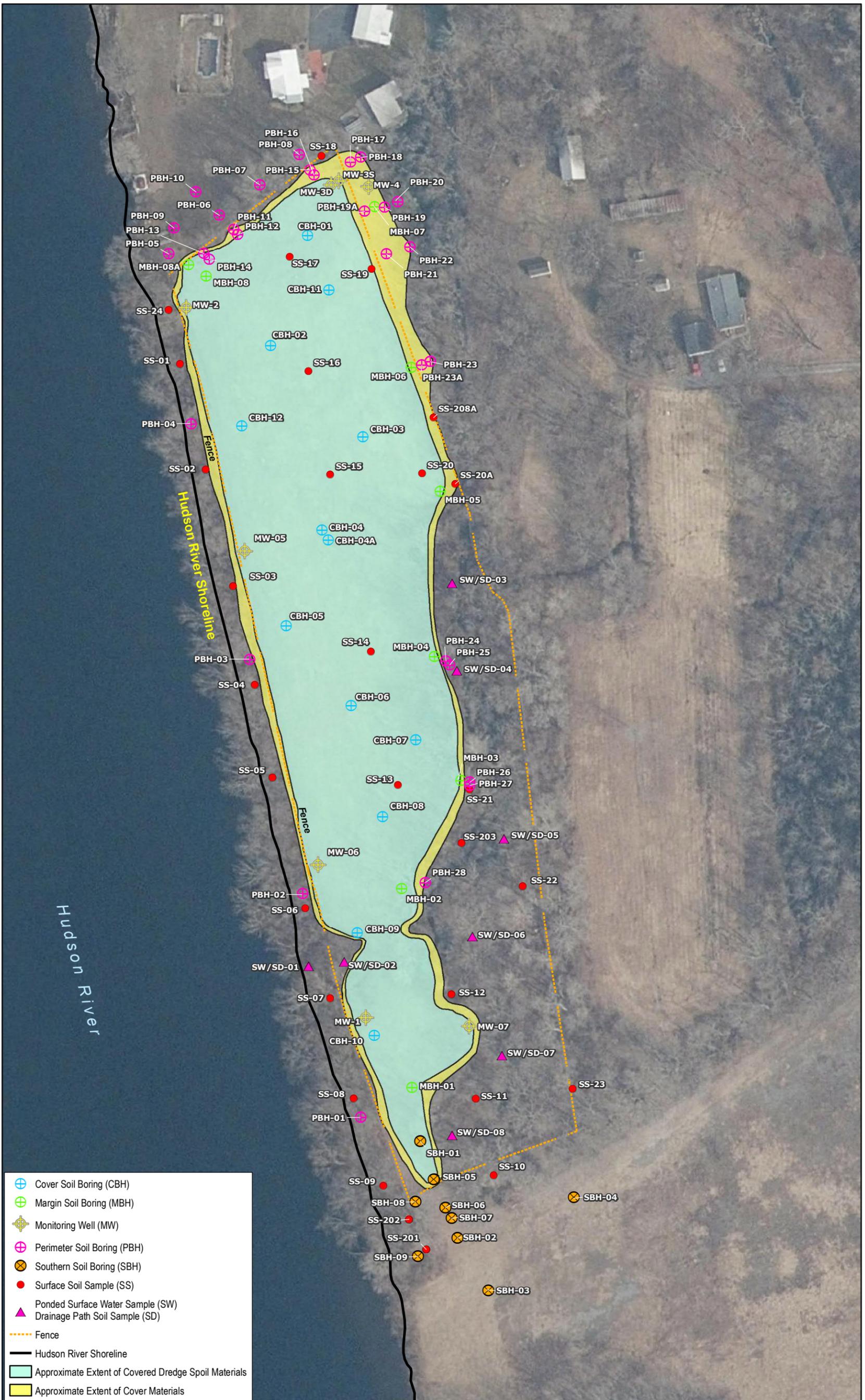
### **Subsurface Soil**

One hundred and twenty-eight subsurface soil samples (deeper than the 0 to 2-inch soil depth interval) were collected from 56 locations during the RI and analyzed for PCBs and metals. Results confirm PCBs in 76 soil samples with 66 samples reporting concentrations above 0.1 ppm (the unrestricted use SCG) and 53 samples reporting concentrations above 1.0 ppm (the commercial use SCG applicable to this site). The highest PCB concentration in the soil under the existing isolation cover was 47 ppm. The highest PCB concentration in the subsurface soil outside of the existing isolation cover and in the vicinity of the closed and covered former dredge spoil disposal area was 2.4 ppm.

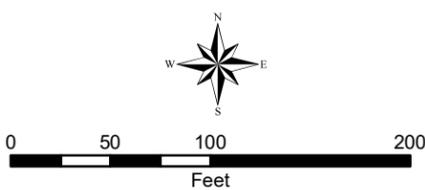
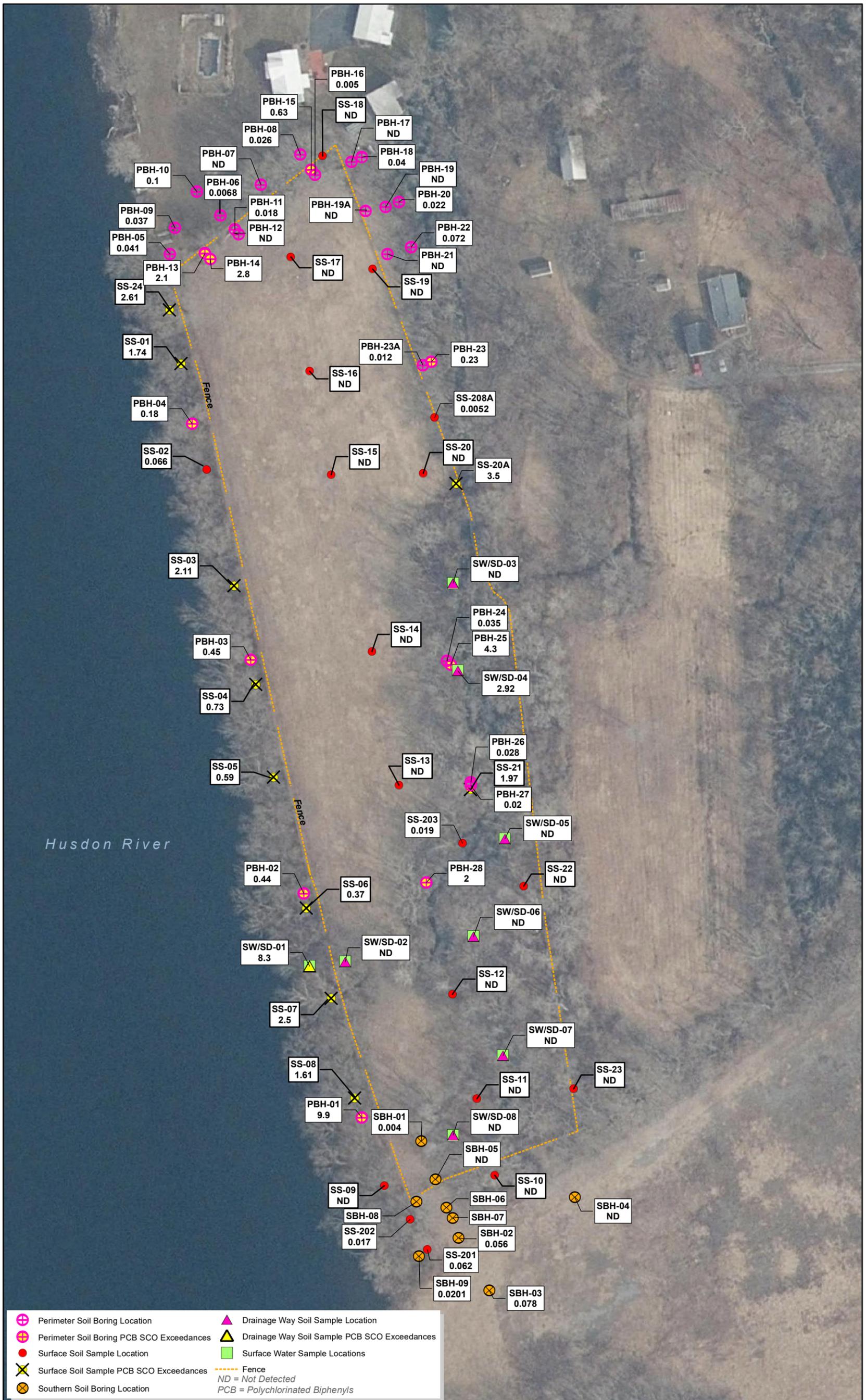
Nearly all of the subsurface soil results found above the applicable SCGs outside of the existing isolation cover were either located in samples collected from the Hudson River floodplain or in the vicinity of areas where burrowing animals have disturbed dredge spoil materials along the margins of the closed and covered dredge spoil disposal area.

The results also indicate that cadmium and chromium (metals that may be attributable to the contaminated dredge spoil materials at the site or, in some cases, historical and reoccurring flood plain deposition of contaminated Hudson River sediments) were found at levels exceeding their respective unrestricted use SCG values in a few subsurface soil samples analyzed for these metals. These metals are not significant risk drivers for either human health or for wildlife at the site in light of their low frequency. The same rationale can be applied to the findings for iron, although iron may also be naturally occurring as well.

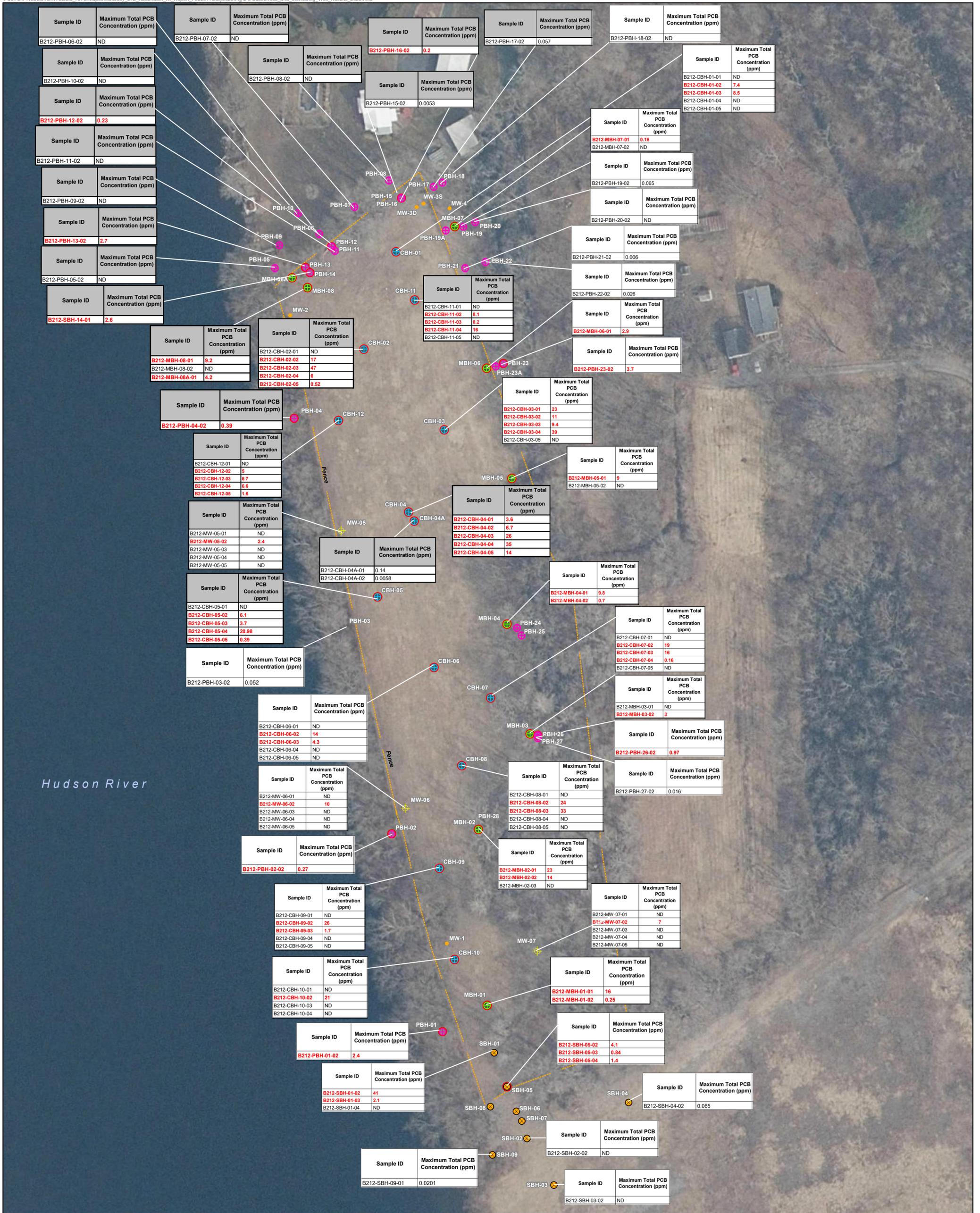
Figure 2-3 shows the analytical results for PCBs from the subsurface borehole and monitoring well soil samples collected during the RI. Tables 2-3a and 2-3b provide the RI analytical results for PCBs and metals, respectively, in the monitoring well subsurface soil samples. Tables 2-4a and 2-4b provide the RI analytical results for PCBs and metals, respectively, in the borehole subsurface soil samples.



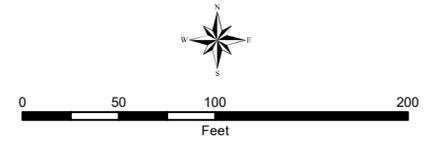
**Figure 2-1**  
**Approximate Extent of Dredge Spoil**  
**and Cover Materials, Buoy 212 Dredge**  
**Spoil Disposal Area, Fort Edward, New York**



**Figure 2-2**  
 Surface Soil and Drainage Way Soil  
 PCB Concentrations  
 Buoy 212 Dredge Spoil Disposal Area  
 Fort Edward, New York



- Existing Monitoring Well
- ⊕ Cover Soil Boring (CBH)
- ⊕ Margin Soil Boring (MBH)
- ⊕ Monitoring Well
- ⊕ \*Cover Soil Boring (CBH) PCB SCO Exceedances
- ⊕ \*Margin Soil Boring (MBH) PCB SCO Exceedances
- ⊕ Perimeter Soil Boring
- ⊕ Southern Soil Boring
- ⊕ Perimeter Soil Boring PCB SCO Exceedances
- ⊕ Southern Soil Boring PCB SCO Exceedances
- Fence



\*Highlighted PCB values represent SCO exceedances  
 PPM = Parts Per Million  
 ND = Not Detected  
 PCB = Polychlorinated Biphenyl

**Figure 2-3**  
 Subsurface Borehole and Monitoring Well Sample Locations  
 Buoy 212 Dredge Spoil Area  
 Fort Edward, New York

**Table 2-1a Summary of Total PCB Concentrations in Drainage Network Soil Samples,  
Buoy 212 Dredge Spoil Disposal Site, Fort Edward, New York**

Sample Identification	Date Collected	Total Organic Carbon (mg/Kg)	Total PCB (mg/Kg - Screening)	Total PCB (mg/Kg - Confirmation)	Field Duplicate <sup>(1)</sup> (mg/Kg)	Maximum Total PCB Concentration <sup>(2)</sup> (mg/Kg)
B212-SD-01	29-Nov-05	29000	8.3			<b>8.3</b>
B212-SD-02	29-Nov-05	5600	0.36U			ND
B212-SD-03	29-Nov-05	8500	0.29U			ND
B212-SD-04	29-Nov-05	35000	2.92	0.38	1.35 (1.7)	<b>2.92</b>
B212-SD-05	29-Nov-05	29000	0.37U			ND
B212-SD-06	29-Nov-05	14000	0.34U			ND
B212-SD-07	29-Nov-05	1900	0.38U	.38U		ND
B212-SD-08	29-Nov-05	13000	0.34U			ND

<sup>(1)</sup> Field duplicate samples listed in parentheses are from confirmation samples.

<sup>(2)</sup> Bold and shaded values exceed soil cleanup objective of 0.1 mg/Kg, while bold italicized screening test values may exceed the soil cleanup objective (NYSDEC Part 375.6-8 Unrestricted Use). The ND values are at reporting limits that are above the soil cleanup objective, however, the method detection limits (MDL) are below that level. Concentrations between the MDL and reporting limit are flagged "J" as estimated.

Key:

mg/Kg = Milligrams/kilogram.

ND = All Aroclors were non-detect.

U = Not detected at the reporting limit shown.

/D = Field duplicate sample.

Blank spaces indicate PCBs were not analyzed for confirmation or field duplicate samples.

**Table 2-1b Summary of Metals Concentrations in Drainage Network Soil Samples,  
Buoy 212 Dredge Spoil Disposal Site, Fort Edward, New York**

Analyte	Screening Criteria <sup>(1)</sup>	Sample ID Date	B212-SD-01 11/29/2005	B212-SD-02 11/29/2005	B212-SD-03 11/29/2005	B212-SD-04 11/29/2005	B212-SD-04/D 11/29/2005	B212-SD-05 11/29/2005
<b>Metals by Method 6010/7471 (mg/Kg)</b>								
Cadmium	2.5 <sup>(2)</sup>		1.6	0.35	0.40	1.4	1.2	0.65
Chromium	30 <sup>(2)</sup>		<b>71.6</b>	3.9	7.2	20.7	21.2	10.8
Lead	63 <sup>(2)</sup>		<b>110</b>	5.1	11.3	32.7	35.1	16.6
Mercury	0.18 <sup>(2)</sup>		<b>0.249</b>	0.022 U	0.049	<b>0.191</b>	<b>0.239</b>	0.099
Aluminum	15800 <sup>(3)</sup>		9480 J	3060 J	9330 J	13200 J	14800 J	11400 J
Antimony	2.17 <sup>(4)</sup>		30.5 UJ	17.7 UJ	23.2 UJ	26.0 UJ	25.7 UJ	26.3 UJ
Arsenic	13 <sup>(2)</sup>		4.1 U	2.4 U	3.1 U	3.8	3.4 U	3.5 U
Barium	350 <sup>(2)</sup>		72.2 J	15.2 J	41.1 J	86.4 J	92.9 J	67.3 J
Beryllium	7.2 <sup>(2)</sup>		0.52 UJ	0.15 UJ	0.41 UJ	0.73 UJ	0.65 UJ	0.51 UJ
Calcium	9190 <sup>(3)</sup>		5240 J	1200 J	2890 J	3520 J	3620 J	4810 J
Cobalt	13.3 <sup>(3)</sup>		7.0	2.2	4.3	5.7	5.3	4.5
Copper	50 <sup>(2)</sup>		27.9	7.4	6.2	15.0	16.7	11.1
Iron	25600 <sup>(3)</sup>		16900 J	9960 J	13200 J	19100 J	13400 J	13500 J
Magnesium	5130 <sup>(3)</sup>		2520 J	975 J	1710 J	2620 J	2950 J	2210 J
Manganese	1600 <sup>(2)</sup>		538 J	95.5 J	214 J	244 J	147 J	174 J
Nickel	30 <sup>(2)</sup>		13.0	4.5	5.8	12.5	13.7	9.2
Potassium	1890 <sup>(3)</sup>		915 J	376 J	422 J	1170 J	1350 J	709 J
Selenium	3.9 <sup>(2)</sup>		8.1 U	4.7 U	6.2 U	6.9 U	6.9 U	7.0 U
Silver	2 <sup>(2)</sup>		1.0 U	0.59 U	0.77 U	0.87 U	0.86 U	0.88 U
Sodium	211 <sup>(3)</sup>		284 UJ	165 UJ	217 UJ	243 UJ	240 UJ	245 UJ
Thallium	16.3 <sup>(4)</sup>		12.2 U	7.1 U	9.3 U	10.4 U	10.3 U	10.5 U
Vanadium	31 <sup>(3)</sup>		26.1	7.4	17.8	28.2	25.0	19.0
Zinc	109 <sup>(2)</sup>		<b>243</b>	<b>195</b>	60.9	109	<b>114</b>	64.6

**Table 2-1b Summary of Metals Concentrations in Drainage Network Soil Samples,  
Buoy 212 Dredge Spoil Disposal Site, Fort Edward, New York**

Analyte	Screening Criteria <sup>(1)</sup>	Sample ID Date	B212-SD-06 11/29/2005	B212-SD-07 11/29/2005	B212-SD-08 11/29/2005
<b>Metals by Method 6010/7471 (mg/Kg)</b>					
Cadmium	2.5 <sup>(2)</sup>		0.43	0.55	0.47
Chromium	30 <sup>(2)</sup>		8.2	27.1	9.9
Lead	63 <sup>(2)</sup>		9.5	9.2	15.4
Mercury	0.18 <sup>(2)</sup>		0.061	0.027 U	0.080
Aluminum	15800 <sup>(3)</sup>		7360 J	<b>18500 J</b>	7630 J
Antimony	2.17 <sup>(4)</sup>		20.6 UJ	19.5 UJ	20.9 UJ
Arsenic	13 <sup>(2)</sup>		2.7 U	2.8	2.8 U
Barium	350 <sup>(2)</sup>		50.3 J	140 J	71.3 J
Beryllium	7.2 <sup>(2)</sup>		0.35 UJ	0.88 UJ	0.40 UJ
Calcium	9190 <sup>(3)</sup>		3040 J	<b>12800 J</b>	2850 J
Cobalt	13.3 <sup>(3)</sup>		4.1	11.4	5.3
Copper	50 <sup>(2)</sup>		7.1	22.4	11.5
Iron	25600 <sup>(3)</sup>		11300 J	<b>27500 J</b>	14500 J
Magnesium	5130 <sup>(3)</sup>		1670 J	<b>7250 J</b>	1900 J
Manganese	1600 <sup>(2)</sup>		175 J	479 J	288 J
Nickel	30 <sup>(2)</sup>		6.0	29.6	7.0
Potassium	1890 <sup>(3)</sup>		452 J	<b>3160 J</b>	488 J
Selenium	3.9 <sup>(2)</sup>		5.5 U	5.2 U	5.6 U
Silver	2 <sup>(2)</sup>		0.69 U	0.65 U	0.70 U
Sodium	211 <sup>(3)</sup>		192 UJ	182 UJ	195 UJ
Thallium	16.3 <sup>(4)</sup>		8.2 U	7.8 U	8.3 U
Vanadium	31 <sup>(3)</sup>		15.3	31.0	18.8
Zinc	109 <sup>(2)</sup>		44.0	63.7	48.4

<sup>(1)</sup> Bold and shaded values exceed screening criteria.

<sup>(2)</sup> Part 375-6.8 Unrestricted Use Soil Cleanup Objectives.

<sup>(3)</sup> NYS background (95th percentile), Source-Distant Data Set from NYS Brownfield Cleanup Program, Technical Support Document,

<sup>(4)</sup> Eastern United States background (95th percentile) from Shacklette

Key:

J = Estimated value ( "-" is biased low and "+" is biased high)

U = Not detected at the reporting limit shown.

mg/Kg = milligrams/kilogram

/D = Field duplicate sample.

**Table 2-2a Summary of Total PCB Concentrations in Surface Soil Samples,  
Buoy 212 Dredge Spoils Disposal Site, Fort Edward, New York**

Sample Identification	Date Collected	Total PCB (mg/Kg - Screening)	Total PCB (mg/Kg - Confirmation)	Field Duplicate <sup>(1)</sup> (mg/Kg)	Maximum Total PCB Concentration <sup>(2)</sup> (mg/Kg)
B212-SS-01	29-Nov-05	1.74			1.74
B212-SS-02	29-Nov-05	0.27U	0.066	0.24U (0.053)	0.066
B212-SS-03	29-Nov-05	2.11			2.11
B212-SS-04	29-Nov-05	0.73	0.26		0.73
B212-SS-05	29-Nov-05	0.59			0.59
B212-SS-06	29-Nov-05	0.37			0.37
B212-SS-07	29-Nov-05	2.5	1.52		2.5
B212-SS-08	29-Nov-05	1.61			1.61
B212-SS-09	29-Nov-05	0.27U			ND
B212-SS-10	29-Nov-05	0.3U			ND
B212-SS-11	29-Nov-05	0.26U			ND
B212-SS-12	29-Nov-05	0.24U			ND
B212-SS-13	29-Nov-05	0.32U			ND
B212-SS-14	29-Nov-05	0.21U			ND
B212-SS-15	29-Nov-05	0.27U			ND
B212-SS-16	29-Nov-05	0.3U			ND
B212-SS-17	29-Nov-05	0.25U			ND
B212-SS-18	29-Nov-05	0.32U			ND
B212-SS-19	29-Nov-05	0.25U			ND
B212-SS-20	29-Nov-05	0.28U			ND
B212-PBH-SS20A-01	12-Jun-08	3.5			3.5
B212-SS-21	29-Nov-05	1.97			1.97
B212-SS-22	29-Nov-05	0.28U		0.28U	ND
B212-SS-23	29-Nov-05	0.27U	0.27U		ND
B212-SS-24	29-Nov-05	2.61			2.61
B212-SS201	16-May-08	0.062			0.062
B212-SS202	16-May-08	0.017			0.017
B212-SS203	16-May-08	0.019			0.019
B212-PBH-SS208A-01	12-Jun-08	0.0052			0.0052
B212-PBH-01-01	16-May-08	9.9			9.9
B212-PBH-02-01	16-May-08	0.44			0.44
B212-PBH-03-01	16-May-08	0.45			0.45
B212-PBH-04-01	16-May-08	0.18			0.18
B212-PBH-05-01	10-Jun-08	0.041			0.041
B212-PBH-06-01	10-Jun-08	0.0068			0.0068
B212-PBH-07-01	10-Jun-08	0.020U			ND
B212-PBH-08-01	10-Jun-08	0.026			0.026
B212-PBH-09-01	10-Jun-08	0.037			0.037
B212-PBH-10-01	10-Jun-08	0.1			0.1
B212-PBH-11-01	10-Jun-08	0.018			0.018
B212-PBH-12-01	10-Jun-08	0.020U			ND
B212-PBH-13-01	10-Jun-08	2.1			2.1
B212-PBH-14-01	10-Jun-08	2.8		2.7	2.8
B212-PBH-15-01	10-Jun-08	0.63			0.63
B212-PBH-16-01	10-Jun-08	0.005			0.005
B212-PBH-17-01	11-Jun-08	0.022U			ND
B212-PBH-18-01	11-Jun-08	0.04		0.022U	0.04
B212-PBH-19-01	11-Jun-08	0.023			ND
B212-PBH-19a-01	12-Jun-08	0.021U			ND
B212-PBH-20-01	11-Jun-08	0.022			0.022

**Table 2-2a Summary of Total PCB Concentrations in Surface Soil Samples,  
Buoy 212 Dredge Spoils Disposal Site, Fort Edward, New York**

Sample Identification	Date Collected	Total PCB (mg/Kg - Screening)	Total PCB (mg/Kg - Confirmation)	Field Duplicate <sup>(1)</sup> (mg/Kg)	Maximum Total PCB Concentration <sup>(2)</sup> (mg/Kg)
B212-PBH-21-01	11-Jun-08	0.021U			ND
B212-PBH-22-01	11-Jun-08	0.072			0.072
B212-PBH-23-01	11-Jun-08	0.23			<b>0.23</b>
B212-PBH-23a-01	12-Jun-08	0.012			0.012
B212-PBH-24-01	12-Jun-08	0.035			0.035
B212-PBH-25-01	12-Jun-08	4.3			<b>4.3</b>
B212-PBH-26-01	12-Jun-08	0.028			0.028
B212-PBH-27-01	12-Jun-08	0.02			0.02
B212-PBH-28-01	12-Jun-08	2		0.69	<b>2</b>
B212-SBH-01-01	16-May-08	0.004			0.004
B212-SBH-02-01	16-May-08	0.056			0.056
B212-SBH-03-01	16-May-08	0.078			0.078
B212-SBH-04-01	16-May-08	0.016U			ND
B212-SBH-05-01	16-May-08	0.018U			ND

<sup>(1)</sup> Field duplicate samples listed in parentheses are from confirmation samples.

<sup>(2)</sup> Bold and shaded values exceed soil cleanup objective of 0.1 mg/Kg, while bold italicized screening test values may exceed the soil cleanup objective (NYSDEC Part 375.6-8 Unrestricted Use). The ND values are at reporting limits that are above the soil cleanup objective, however, the method detection limits (MDL) are below that level. Concentrations between the MDL and reporting limit are flagged "J" as estimated.

Key:

mg/Kg = milligrams/kilogram.

ND = All Aroclors were non-detect.

U = Not detected at the reporting limit shown.

/D = Field duplicate sample.

Blank spaces indicate PCBs were not analyzed for confirmation or field duplicate samples.

**Table 2-2b Summary of Metals Concentrations in Surface Soil Samples,  
Buoy 212 Dredge Spoils Disposal Site, Fort Edward, New York**

Analyte	Screening Criteria <sup>(1)</sup>	Sample ID Date	B212-SS-03 11/29/2005	B212-SS-07 11/29/2005	B212-SS-10 11/29/2005	B212-SS-20 11/29/2005	B212-SS-22 11/29/2005	B212-SS-22/D 11/29/2005	B212-PBH-03-01 05/16/2008
<b>Metals by Method 6010/7471 (mg/Kg)</b>									
Cadmium	2.5 <sup>(2)</sup>		0.75	0.95	0.65	0.89	0.42	0.38	1.5
Chromium	30 <sup>(2)</sup>		9.9	<b>30.3</b>	9.3	21.4	7.8	7.8	17.3
Lead	63 <sup>(2)</sup>		7.6	53.7	13.2	12.9	9.7	8.7	<b>22.1</b>
Mercury	0.18 <sup>(2)</sup>		0.047	<b>0.215</b>	0.051	0.040	0.043	0.049	0.131
Aluminum	15800 <sup>(3)</sup>						10200	10300	
Antimony	2.17 <sup>(4)</sup>						19.0 UJ	16.5 UJ	
Arsenic	13 <sup>(2)</sup>						2.5 U	2.2 U	
Barium	350 <sup>(2)</sup>						45.4	46.5	
Beryllium	7.2 <sup>(2)</sup>						0.43 UJ	0.44 UJ	
Calcium	9190 <sup>(3)</sup>						2070	2300	
Cobalt	13.3 <sup>(3)</sup>						5.0	5.0	
Copper	50 <sup>(2)</sup>						6.7	6.0	
Iron	25600 <sup>(3)</sup>						14800 J	14800 J	
Magnesium	5130 <sup>(3)</sup>						1700 J	1720 J	
Manganese	1600 <sup>(2)</sup>						216 J	233 J	
Nickel	30 <sup>(2)</sup>						7.4	7.1	
Potassium	1890 <sup>(3)</sup>						452	426	
Selenium	3.9 <sup>(2)</sup>						5.1 U	4.4 U	
Silver	2 <sup>(2)</sup>						0.63 U	0.55 U	
Sodium	211 <sup>(3)</sup>						178 UJ	154 UJ	
Thallium	16.3 <sup>(4)</sup>						7.6 U	6.6 U	
Vanadium	31 <sup>(3)</sup>						19.4	19.6	
Zinc	109 <sup>(2)</sup>						40.2	39.5	

**Table 2-2b Summary of Metals Concentrations in Surface Soil Samples,  
Buoy 212 Dredge Spoils Disposal Site, Fort Edward, New York**

Analyte	Screening Criteria <sup>(1)</sup>	Sample ID Date	B212-PBH-06-01 06/10/2008	B212-PBH-17-01 06/11/2008	B212-PBH-22-01 06/11/2008	B212-PBH-23A-01 06/12/2008	B212-PBH-24-01 06/12/2008
<b>Metals by Method 6010/7471 (mg/Kg)</b>							
Cadmium	2.5 <sup>(2)</sup>		0.33	0.38	0.30	0.43 J-	0.11 J-
Chromium	30 <sup>(2)</sup>		8.9	39.7	11.9	22.5	5.6
Lead	63 <sup>(2)</sup>		<b>9.8</b>	<b>14.7</b>	<b>6.3</b>	<b>12.5</b>	<b>3.9</b>
Mercury	0.18 <sup>(2)</sup>		0.061	0.028	0.027	0.013 J-	0.013 J-
Aluminum	15800 <sup>(3)</sup>			<b>27800</b>			
Antimony	2.17 <sup>(4)</sup>			0.70 U			
Arsenic	13 <sup>(2)</sup>			5.5			
Barium	350 <sup>(2)</sup>			<b>233</b>			
Beryllium	7.2 <sup>(2)</sup>			1.2			
Calcium	9190 <sup>(3)</sup>			<b>20700</b>			
Cobalt	13.3 <sup>(3)</sup>			19.2			
Copper	50 <sup>(2)</sup>			31.2			
Iron	25600 <sup>(3)</sup>			<b>35600</b>			
Magnesium	5130 <sup>(3)</sup>			<b>10400</b>			
Manganese	1600 <sup>(2)</sup>			<b>671</b>			
Nickel	30 <sup>(2)</sup>			45.4			
Potassium	1890 <sup>(3)</sup>			<b>3740</b>			
Selenium	3.9 <sup>(2)</sup>			0.76 U			
Silver	2 <sup>(2)</sup>			0.09 U			
Sodium	211 <sup>(3)</sup>			<b>262</b>			
Thallium	16.3 <sup>(4)</sup>			0.39 U			
Vanadium	31 <sup>(3)</sup>			41.6			
Zinc	109 <sup>(2)</sup>			<b>88.1</b>			

<sup>(1)</sup> Bold and shaded values exceed screening criteria.

<sup>(2)</sup> Part 375-6.8 Unrestricted Use Soil Cleanup Objectives.

<sup>(3)</sup> NYS background (95th percentile), Source-Distant Data Set from NYS Brownfield Cleanup Program, Technical Support Document, Appendix D, September 2006.

<sup>(4)</sup> Eastern United States background (95th percentile) from Shacklette and Boerngen 1984.

Key:

J = Estimated value ( "-" is biased low and "+" is biased high)

mg/Kg = milligrams/kilogram

/D = Field duplicate sample.

Blank spaces indicate metals were not analyzed.

**Table 2-3a Summary of Total PCB Concentrations in Monitoring Well Subsurface Soil Samples,  
Buoy 212 Dredge Spoil Disposal Site, Fort Edward, New York**

Sample Identification	Date Collected	Start Depth (feet bgs)	End Depth (feet bgs)	Description	Total PCB (mg/Kg - Screening)	Total PCB (mg/Kg - Confirmation)	Field Duplicate <sup>(1)</sup> (mg/Kg)	Maximum Total PCB Concentration <sup>(2)</sup> (mg/Kg)
B212-MW-05-01	22-Feb-06	0.40	0.80	Yellow/Brown Sand - Cover	0.26U			ND
B212-MW-05-02	22-Feb-06	4.40	5.70	Black Sand Silt - Spoils	24	16		<b>24</b>
B212-MW-05-03	22-Feb-06	6.60	6.90	Brown Sand - Spoils	0.29U			ND
B212-MW-05-04	22-Feb-06	10.20	10.60	Brown Silt - Spoils	0.27U		0.22 U	ND
B212-MW-05-05	22-Feb-06	18.00	19.00	Yellow/Brown Silt Sand - Native	0.26U			ND
B212-MW-06-01	22-Feb-06	0.30	0.90	Brown Clay - Cap	0.27U	0.27U		ND
B212-MW-06-02	22-Feb-06	4.00	4.30	Gray/Black Sand - Spoils	10			<b>10</b>
B212-MW-06-03	22-Feb-06	4.90	5.10	Brown Sand - Spoils	0.26U			ND
B212-MW-06-04	22-Feb-06	6.00	6.30	Yellow/Brown Sand - Spoils	0.21U			ND
B212-MW-06-05	22-Feb-06	19.00	20.00	Gray Sand Silt - Native	0.27U			ND
B212-MW-07-01	23-Feb-06	1.40	1.60	Brown Clay - Cap	0.34U			ND
B212-MW-07-02	23-Feb-06	4.00	4.40	Black Sand - Spoils	7			<b>7</b>
B212-MW-07-03	23-Feb-06	4.80	5.20	Green/Gray Sand - Spoils	0.23U			ND
B212-MW-07-04	23-Feb-06	11.60	12.00	Sand - Native	0.26U	0.26U		ND
B212-MW-07-05	23-Feb-06	14.60	14.80	Sand - Native	0.23U			ND

<sup>(1)</sup> Field duplicate samples listed in parentheses are from confirmation samples.

<sup>(2)</sup> Bold and shaded values exceed soil cleanup objective of 0.1 mg/Kg, while bold italicized screening test values may exceed the soil cleanup objective (NYSDEC Part 375.6-8 Unrestricted Use). The ND values are at reporting limits that are above the soil cleanup objective, however, the method detection limits (MDL) are below that level. Concentrations between the MDL and reporting limit are flagged "J" as estimated.

Key:

bgs = Below ground surface.

U = Not detected.

µg/Kg = Micrograms/kilogram.

mg/Kg = Milligrams/kilogram.

ND = All Aroclors were non-detect.

U = Not detected at the reporting limit shown.

Blank spaces indicate PCBs were not analyzed for confirmation or field duplicate samples.

**Table 2-3b Summary of Metals Concentrations in Monitoring Well Subsurface Soil Samples,  
Buoy 212 Dredge Spoil Disposal Site**

Analyte	Screening Criteria <sup>(1)</sup>	Sample ID Depth (ft bgs) Date	B212-MW-05-05 18 - 19 02/22/2006	B212-MW-05-05/D 18 - 19 02/22/2006	B212-MW-06-05 19 - 20 02/22/2006	B212-MW-07-05 14.6 - 14.8 02/23/2006
<b>Metals by Method 6010/7471 (mg/Kg)</b>						
Cadmium	2.5 <sup>(2)</sup>		0.23 U	0.24 U	0.27 U	0.23 U
Chromium	30 <sup>(2)</sup>		5.4	8.0	7.2	7.0
Lead	63 <sup>(2)</sup>		1.4	1.2	2.3	2.9
Mercury	0.18 <sup>(2)</sup>		0.020 U	0.022 U	0.020 U	0.022 U
Aluminum	15800 <sup>(3)</sup>		6130 J	6600 J	7160 J	5390 J
Antimony	2.17 <sup>(4)</sup>		17.0 U	17.9 U	19.9 UJ	17.5 U
Arsenic	13 <sup>(2)</sup>		2.3 U	2.4 U	2.7 U	2.3 U
Barium	350 <sup>(2)</sup>		27.1 J	32.6 J	46.0 J	36.8 J
Beryllium	7.2 <sup>(2)</sup>		0.29 UJ	0.29 UJ	0.31 UJ	0.37 UJ
Calcium	9190 <sup>(3)</sup>		2520	2720	2400	4640
Cobalt	13.3 <sup>(3)</sup>		2.2	2.1	2.0	4.0
Copper	50 <sup>(2)</sup>		2.8	3.7	5.4	5.5
Iron	25600 <sup>(3)</sup>		11300 J	12600 J	6790 J	8710 J
Magnesium	5130 <sup>(3)</sup>		1510 J	1500 J	1620 J	2030 J
Manganese	1600 <sup>(2)</sup>		134 J	153 J	102 J	111 J
Nickel	30 <sup>(2)</sup>		3.8	4.2	5.0	6.2
Potassium	1890 <sup>(3)</sup>		233	284	568	655
Selenium	3.9 <sup>(2)</sup>		4.5 U	4.8 U	5.3 U	4.7 U
Silver	2 <sup>(2)</sup>		0.57 U	0.60 U	0.66 U	0.58 U
Sodium	211 <sup>(3)</sup>		159 U	180	190	163 U

**Table 2-3b Summary of Metals Concentrations in Monitoring Well Subsurface Soil Samples,  
Buoy 212 Dredge Spoil Disposal Site**

<b>Analyte</b>	<b>Screening Criteria <sup>(1)</sup></b>	<b>Sample ID Depth (ft bgs) Date</b>	<b>B212-MW-05-05 18 - 19 02/22/2006</b>	<b>B212-MW-05-05/D 18 - 19 02/22/2006</b>	<b>B212-MW-06-05 19 - 20 02/22/2006</b>	<b>B212-MW-07-05 14.6 - 14.8 02/23/2006</b>
Thallium	16.3 <sup>(4)</sup>		6.8 U	7.1 U	8.0 U	7.0 U
Vanadium	31 <sup>(3)</sup>		15.3	17.4	10.9	15.1
Zinc	109 <sup>(2)</sup>		26.7	27.6	31.3	29.6

<sup>(1)</sup> Bold and shaded values exceed screening criteria.

<sup>(2)</sup> Part 375-6.8 Unrestricted Use Soil Cleanup Objectives.

<sup>(3)</sup> NYS background (95th percentile), Source-Distant Data Set from NYS Brownfield Cleanup Program, Technical Support Document, Appendix D, September 2006.

<sup>(4)</sup> Eastern United States background (95th percentile) from Shacklette and Boerngen 1984.

Key:

bgs = Below ground surface.

J = Estimated value ( "-" is biased low and "+" is biased high).

U = Not detected at the reporting limit shown.

mg/Kg = Milligrams/kilogram.

/D = Field duplicate sample.

**Table 2-4a Summary of Total PCB Concentrations in Borehole Subsurface Soil Samples,  
Buoy 212 Dredge Spoil Disposal Site, Fort Edward, New York**

Sample Identification	Date Collected	Start Depth (feet bgs)	End Depth (feet bgs)	Description	Total PCB (mg/Kg - Screening)	Total PCB (mg/Kg - Confirmation)	Field Duplicate <sup>(1)</sup> (mg/Kg)	Maximum Total PCB Concentration <sup>(2)</sup> (mg/Kg)
B212-CBH-01-01	1-Mar-06	2.50	2.80	Brown Sand - Cap	0.25U			ND
B212-CBH-01-02	1-Mar-06	6.00	8.00	Gray/Black Sand - Spoils	7.4	6.5		7.4
B212-CBH-01-03	1-Mar-06	13.50	14.00	Gray/Black Sand- Spoils	8.5			8.5
B212-CBH-01-04	1-Mar-06	14.20	14.40	Gray/Brown Silt Clay - Native Soil	0.32U			ND
B212-CBH-01-05	1-Mar-06	16.70	17.00	Brown Sand - Native 3 ft below spoils	0.3U			ND
B212-CBH-02-01	28-Feb-06	3.50	3.70	Tan Sand - Cap	0.24U			ND
B212-CBH-02-02	28-Feb-06	7.00	8.00	Sand/Gravel - Spoils	11	17		17
B212-CBH-02-03	28-Feb-06	11.50	12.00	Sand - Spoils	47			47
B212-CBH-02-04	28-Feb-06	18.00	18.20	Brown Silt - Spoils	6			6
B212-CBH-02-05	28-Feb-06	18.20	18.50	Brown/Black Sand - Native underlying Spoils	0.52			0.52
B212-CBH-03-01	28-Feb-06	5.00	6.00	Black Sand - Spoils	23	21		23
B212-CBH-03-02	28-Feb-06	7.00	8.00	Black Spoils	9.9		11	11
B212-CBH-03-03	28-Feb-06	8.90	9.70	Sand - Spoils	9.4			9.4
B212-CBH-03-04	28-Feb-06	13.30	14.00	Sand - Spoils	39			39
B212-CBH-03-05	28-Feb-06	21.80	22.20	Brown Silt - Native	0.3U			ND
B212-CBH-04-01	27-Feb-06	4.80	5.40	Black Sand - Spoils	3.6			3.6
B212-CBH-04-02	27-Feb-06	5.50	6.00	Black Sand - Spoils	6.7			6.7
B212-CBH-04-03	28-Feb-06	11.00	12.00	Black Gravel Sand - Spoils	10	26		26
B212-CBH-04-04	28-Feb-06	15.40	15.90	Black Sand - Spoils	35			35
B212-CBH-04-05	28-Feb-06	17.50	18.00	Black Sand Silt - immediately below spoils	14			14
B212-CBH-04A-01	16-May-08	1.42	1.83	No description	0.14			0.14
B212-CBH-04A-02	16-May-08	4.33	4.50	No description	0.0058			0.0058
B212-CBH-05-01	27-Feb-06	3.60	4.00	Tan Sand - Cap	0.21U			ND
B212-CBH-05-02	27-Feb-06	5.50	6.00	Black Sand Gravel - Spoils	6.1		4.4	6.1
B212-CBH-05-03	27-Feb-06	8.40	8.90	Black Clay Silt - Spoils	2.8	3.7		3.7
B212-CBH-05-04	27-Feb-06	15.40	16.00	Black Silt - Native	20.98			20.98
B212-CBH-05-05	27-Feb-06	16.00	16.40	Black Silt - Native	0.39			0.39
B212-CBH-06-01	21-Feb-06	0.60	0.80	Brown Clay - Cover	0.26U			ND
B212-CBH-06-02	21-Feb-06	4.00	5.20	Black Silt Sand Spoils	13	14	11 (11)	14
B212-CBH-06-03	21-Feb-06	10.50	10.70	Gray Sand - Spoils	4.3			4.3
B212-CBH-06-04	21-Feb-06	18.40	18.50	Brown Silty Clay - Native	0.22U			ND
B212-CBH-06-05	21-Feb-06	20.00	20.20	Gray Sand - Native	0.24U			ND
B212-CBH-07-01	24-Feb-06	1.30	1.50	Brown Clay - Cover	0.28U			ND
B212-CBH-07-02	24-Feb-06	4.20	5.00	Gray/Black Sand - Spoils	19	16		19
B212-CBH-07-03	24-Feb-06	8.20	8.50	Black/White Sand Spoils	16			16
B212-CBH-07-04	24-Feb-06	11.20	11.50	Green/Brown Sand - Native	0.16			0.16

**Table 2-4a Summary of Total PCB Concentrations in Borehole Subsurface Soil Samples,  
Buoy 212 Dredge Spoil Disposal Site, Fort Edward, New York**

Sample Identification	Date Collected	Start Depth (feet bgs)	End Depth (feet bgs)	Description	Total PCB (mg/Kg - Screening)	Total PCB (mg/Kg - Confirmation)	Field Duplicate <sup>(1)</sup> (mg/Kg)	Maximum Total PCB Concentration <sup>(2)</sup> (mg/Kg)
B212-CBH-07-05	24-Feb-06	12.40	12.60	Green/Brown Sand - Native	0.29U			ND
B212-CBH-08-01	24-Feb-06	0.50	1.00	Brown Clay - Cover	0.28U			ND
B212-CBH-08-02	24-Feb-06	4.20	5.00	Black Sand Spoils	24			24
B212-CBH-08-03	24-Feb-06	13.20	13.50	Black Sand Spoils	33			33
B212-CBH-08-04	24-Feb-06	14.60	15.20	Green/Brown Sand - Native	0.22U	0.22U		ND
B212-CBH-08-05	24-Feb-06	16.30	16.50	Green/Brown Sand - Native	0.22U			ND
B212-CBH-09-01	24-Feb-06	1.00	1.40	Yellow Brown Sand - Cover	0.32U	0.32U		ND
B212-CBH-09-02	24-Feb-06	4.60	4.90	Black/Gray Sand Spoils	26			26
B212-CBH-09-03	24-Feb-06	7.00	7.30	Black Sand Spoils	1.7			1.7
B212-CBH-09-04	24-Feb-06	11.00	11.30	Green/Brown Sand - Native	0.23U			ND
B212-CBH-09-05	24-Feb-06	12.30	12.50	Green/Brown Sand - Native	0.22U			ND
B212-CBH-10-01	23-Feb-06	2.60	2.80	Yellow/Brown Sand - Cover	0.2U			ND
B212-CBH-10-02	23-Feb-06	4.10	5.10	Black Sand Spoils	18	21		21
B212-CBH-10-03	23-Feb-06	8.20	8.50	Gray Sand - Native	0.27U			ND
B212-CBH-10-04	23-Feb-06	10.00	11.00	Gray Sand - Native	0.23U			ND
B212-CBH-11-01	1-Mar-06	2.60	2.90	Tan Sand - Cap	0.21U			ND
B212-CBH-11-02	1-Mar-06	5.10	6.00	Black Sand - Spoils	8.1	7.6		8.1
B212-CBH-11-03	1-Mar-06	7.00	7.40	Gray/Black Sand - Spoils	8.2			8.2
B212-CBH-11-04	1-Mar-06	17.20	17.60	Black Clay Silt - Native	16			16
B212-CBH-11-05	1-Mar-06	17.60	17.80	Tan Clay Brown Silt - Native	0.27U			ND
B212-CBH-12-01	28-Feb-06	3.50	4.00	Brown Sand - Cap	0.22U			ND
B212-CBH-12-02	28-Feb-06	5.50	6.00	Black Sand Gravel - Spoils	5			5
B212-CBH-12-03	28-Feb-06	7.50	8.00	Gravel - Spoils	6.4	6.7		6.7
B212-CBH-12-04	28-Feb-06	11.50	12.00	Sand - Spoils	6.6			6.6
B212-CBH-12-05	28-Feb-06	15.20	15.40	Black Sand - Native	1.6			1.6
B212-MBH-01-01	1-Mar-06	5.50	6.00	Gray Sand - Spoils	16			16
B212-MBH-01-02	1-Mar-06	6.00	6.50	Gray Sand - Native	0.25			0.25
B212-MBH-02-01	1-Mar-06	5.00	6.00	Gray/Black Sand Silt - Spoils	13	23		23
B212-MBH-02-02	1-Mar-06	9.50	10.00	Gray/Black Sand Silt - Spoils	14			14
B212-MBH-02-03	1-Mar-06	10.50	11.00	Gray Sand - Native	0.26U			ND
B212-MBH-03-01	27-Feb-06	0.00	0.75	Brown Clay Silt - Native	0.18U			ND
B212-MBH-03-02	27-Feb-06	1.20	2.20	Dark Sand - Native	3			3
B212-MBH-04-01	27-Feb-06	0.50	1.50	Tan Clay Silt - Native	9.8			9.8
B212-MBH-04-02	27-Feb-06	4.10	4.80	Tan/Brown Clay Silt - Native	0.7			0.7
B212-MBH-05-01	1-Mar-06	2.30	2.40	Gray Sand - Spoils	7.4	9		9
B212-MBH-05-02	1-Mar-06	2.40	3.40	Brown Silt - Native	0.27U			ND

**Table 2-4a Summary of Total PCB Concentrations in Borehole Subsurface Soil Samples,  
Buoy 212 Dredge Spoil Disposal Site, Fort Edward, New York**

Sample Identification	Date Collected	Start Depth (feet bgs)	End Depth (feet bgs)	Description	Total PCB (mg/Kg - Screening)	Total PCB (mg/Kg - Confirmation)	Field Duplicate <sup>(1)</sup> (mg/Kg)	Maximum Total PCB Concentration <sup>(2)</sup> (mg/Kg)
B212-MBH-06-01	1-Mar-06	4.70	5.40	Gray Sand - Native	1	2.9		2.9
B212-MBH-07-01	28-Feb-06	2.70	3.40	Brown Silt - Native	0.16		0.12	0.16
B212-MBH-07-02	28-Feb-06	3.70	4.30	Tan Sand - Native	0.26U			0
B212-MBH-08-01	1-Mar-06	3.50	4.00	Black/Brown Sand - Native	9.2	8.14		9.2
B212-MBH-08-02	1-Mar-06	4.80	5.10	Brown Silt - Native	0.24U			ND
B212-MBH-08A-01	1-Mar-06	1.50	2.00	Gray/brown silt over sand - Native	4.2			4.2
B212-PBH-01-02	16-May-08	2.00	2.50	No description	2.4			2.4
B212-PBH-02-02	16-May-08	2.00	2.50	Dark Brown Silty Sand	0.27			0.27
B212-PBH-03-02	16-May-08	2.00	2.50	Brown Silty Clay	0.052			0.052
B212-PBH-04-02	16-May-08	2.00	2.50	Black Silt/Clay	0.39			0.39
B212-PBH-05-02	10-Jun-08	0.17	5.00	Silty Sand/Trace Clay	0.021U			ND
B212-PBH-06-02	10-Jun-08	0.17	3.00	Silty Sand/Trace Clay	0.02U			ND
B212-PBH-07-02	10-Jun-08	0.17	3.00	Silty Sand/Trace Clay	0.021U			ND
B212-PBH-08-02	10-Jun-08	0.17	3.00	Silty Sand/Trace Clay	0.021U			ND
B212-PBH-09-02	10-Jun-08	0.17	3.00	Silty Sand/Trace Clay	0.021U			ND
B212-PBH-10-02	10-Jun-08	0.17	3.00	Silty Sand/Trace Clay	0.021U			ND
B212-PBH-11-02	10-Jun-08	0.17	2.00	Silty Sand/Trace Clay	0.02U			ND
B212-PBH-12-02	10-Jun-08	0.17	2.00	Silty Sand/Trace Clay	0.23			0.23
B212-PBH-13-02	10-Jun-08	0.17	2.00	Sand	2.7			2.7
B212-PBH-14-02	10-Jun-08	0.17	2.00	Sand	2.6			2.6
B212-PBH-15-02	10-Jun-08	0.17	2.00	Clay over silty sand	0.0053			0.0053
B212-PBH-16-02	10-Jun-08	0.17	2.00	Sand	0.2			0.2
B212-PBH-17-02	11-Jun-08	0.17	2.00	Clay followed by sand	0.057			0.057
B212-PBH-18-02	11-Jun-08	0.17	2.00	Clay followed by sand	0.02U			ND
B212-PBH-19-02	11-Jun-08	0.17	2.00	Clay followed by sand	0.065			0.065
B212-PBH-20-02	11-Jun-08	0.17	2.00	Silty Sand/Trace Clay	0.022U			ND
B212-PBH-21-02	11-Jun-08	0.17	2.00	Clay	0.006			0.006
B212-PBH-22-02	11-Jun-08	0.17	2.00	Clay followed by Silty Sand	0.026			0.026
B212-PBH-23-02	11-Jun-08	0.17	2.00	Clay followed by Silty Sand	3.7			3.7
B212-PBH-26-02	12-Jun-08	0.17	2.00	Sand followed by Silty Sand/Trace Clay	0.97			0.97
B212-PBH-27-02	12-Jun-08	0.17	2.00	Silty Sand/Trace Clay	0.016			0.016
B212-SBH-01-02	16-May-08	2.67	3.00	Spoils	41			41
B212-SBH-01-03	16-May-08	0.33	0.67	Spoils	2.1			2.1
B212-SBH-01-04	16-May-08	1.33	1.67	No description	0.02U			ND
B212-SBH-02-02	16-May-08	1.50	2.20	Silty sand	0.018U			ND
B212-SBH-03-02	16-May-08	1.50	2.00	Silty Sand	0.018U			ND

**Table 2-4a Summary of Total PCB Concentrations in Borehole Subsurface Soil Samples,  
Buoy 212 Dredge Spoil Disposal Site, Fort Edward, New York**

Sample Identification	Date Collected	Start Depth (feet bgs)	End Depth (feet bgs)	Description	Total PCB (mg/Kg - Screening)	Total PCB (mg/Kg - Confirmation)	Field Duplicate <sup>(1)</sup> (mg/Kg)	Maximum Total PCB Concentration <sup>(2)</sup> (mg/Kg)
B212-SBH-04-02	16-May-08	1.50	1.80	Silty clay	0.065			0.065
B212-SBH-05-02	16-May-08	1.70	2.20	Silty Sand/Trace gravel/gray silt/spoils	3.5		4.1	<b>4.1</b>
B212-SBH-05-03	16-May-08	2.70	3.00	Gray Silt/Spoils	0.84			<b>0.84</b>
B212-SBH-05-04	16-May-08	0.70	1.00	Silty Sand	1.4			<b>1.4</b>
B212-SBH-09-01	16-May-08	0.50	0.80	Silty Sand	0.0201			0.0201

<sup>(1)</sup> Field duplicate samples listed in parentheses are from confirmation samples.

<sup>(2)</sup> Bold and shaded values exceed soil cleanup objective of 0.1 mg/Kg, while bold italicized screening test values may exceed the soil cleanup objective (NYSDEC Part 375.6-8 Unrestricted Use). The ND values are at reporting limits that are above the soil cleanup objective, however, the method detection limits (MDL) are below that level. Concentrations between the MDL and reporting limit are flagged "J" as estimated.

Key:

bgs = Below ground surface.

mg/Kg = Milligrams/kilogram.

ND = All Aroclors were non-detect.

U = Not detected at the reporting limit shown.

PCB = Polychlorinated biphenyls.

Blank spaces indicate PCBs were not analyzed for confirmation or field duplicate samples.

**Table 2-4b Summary of Metals Concentrations in Borehole Subsurface Soil Samples,  
Buoy 212 Dredge Spoil Disposal Site, Fort Edward, New York**

Analyte	Screening Criteria <sup>(1)</sup>	Sample ID Depth (ft bgs) Date	B212-CBH-01-02 6.0 - 8.0 03/01/2006	B212-CBH-01-02/D 6.0 - 8.0 03/01/2006	B212-CBH-04-02 5.5 - 6 02/27/2006	B212-CBH-08-02 4.2 - 5 02/24/2006	B212-CBH-08-02/D 4.2 - 5 02/24/2006
<b>Metals by Method 6010/7471 (mg/Kg)</b>							
Cadmium	2.5 <sup>(2)</sup>		1.2	1.2	2.6 J-	3.5	17.6
Chromium	30 <sup>(2)</sup>		25.0	22.1	27.5	36.5	45.6
Lead	63 <sup>(2)</sup>		24.3	22.5	30.6 J-	43.4	50.3
Mercury	0.18 <sup>(2)</sup>		0.100	0.114	0.120	0.166	0.156
Aluminum	15800 <sup>(3)</sup>		2480	2670			
Antimony	2.17 <sup>(4)</sup>		17.6 U	17.1 U			
Arsenic	13 <sup>(2)</sup>		2.3 U	2.3 U			
Barium	350 <sup>(2)</sup>		29.2	35.3			
Beryllium	7.2 <sup>(2)</sup>		0.14 U	0.17 U			
Calcium	9190 <sup>(3)</sup>		1490	1560			
Cobalt	13.3 <sup>(3)</sup>		2.0	2.0			
Copper	50 <sup>(2)</sup>		10.1	11.6			
Iron	25600 <sup>(3)</sup>		4730 J+	5130 J+			
Magnesium	5130 <sup>(3)</sup>		1110	1130			
Manganese	1600 <sup>(2)</sup>		36.1	39.3			
Nickel	30 <sup>(2)</sup>		4.2	4.4			
Potassium	1890 <sup>(3)</sup>		404	452			
Selenium	3.9 <sup>(2)</sup>		4.7 U	4.6 U			
Silver	2 <sup>(2)</sup>		0.59 U	0.57 U			
Sodium	211 <sup>(3)</sup>		164 U	160 U			
Thallium	16.3 <sup>(4)</sup>		7.0 U	6.8 U			
Vanadium	31 <sup>(3)</sup>		7.9	6.1			
Zinc	109 <sup>(2)</sup>		30.1	30.2			

**Table 2-4b Summary of Metals Concentrations in Borehole Subsurface Soil Samples,  
Buoy 212 Dredge Spoil Disposal Site, Fort Edward, New York**

Analyte	Screening Criteria <sup>(1)</sup>	Sample ID Depth (ft bgs) Date	B212-CBH-10-04 10.0 - 11.0 02/23/2006	B212-CBH-11-03 7.0 - 7.4 03/01/2006	B212-MBH-05-02 2.4 - 3.4 03/01/2006	B212-MBH-06-01 4.7 - 5.4 03/01/2006	B212-CBH-04A-01 1.5 -1.9 05/16/2008
<b>Metals by Method 6010/7471 (mg/Kg)</b>							
Cadmium	2.5 <sup>(2)</sup>		0.25 U	0.57 J-	0.36 J-	0.33	0.59
Chromium	30 <sup>(2)</sup>		5.2	22.1	11.1	8.9	12.4
Lead	63 <sup>(2)</sup>		1.8	18.3 J-	4.6 J-	6.9	5.6
Mercury	0.18 <sup>(2)</sup>		0.022 UJ	0.072	0.041	0.021 U	0.020 J
Aluminum	15800 <sup>(3)</sup>					7210	14700
Antimony	2.17 <sup>(4)</sup>					17.6 U	0.69 U
Arsenic	13 <sup>(2)</sup>					2.3 U	2.7
Barium	350 <sup>(2)</sup>					34.1	74.7
Beryllium	7.2 <sup>(2)</sup>					0.29 U	0.58
Calcium	9190 <sup>(3)</sup>					1560	3920
Cobalt	13.3 <sup>(3)</sup>					3.7	10.5
Copper	50 <sup>(2)</sup>					6.6	9.3
Iron	25600 <sup>(3)</sup>					8660 J+	<b>38000</b>
Magnesium	5130 <sup>(3)</sup>					1560	2150
Manganese	1600 <sup>(2)</sup>					100	698
Nickel	30 <sup>(2)</sup>					6.4	9.4
Potassium	1890 <sup>(3)</sup>					500	403
Selenium	3.9 <sup>(2)</sup>					4.7 U	0.75 U
Silver	2 <sup>(2)</sup>					0.59 U	0.09 U
Sodium	211 <sup>(3)</sup>					164 U	138 J
Thallium	16.3 <sup>(4)</sup>					7.0 U	0.57 J
Vanadium	31 <sup>(3)</sup>					12.8	30.1
Zinc	109 <sup>(2)</sup>					28.3	42.9

**Table 2-4b Summary of Metals Concentrations in Borehole Subsurface Soil Samples,  
Buoy 212 Dredge Spoil Disposal Site, Fort Edward, New York**

Analyte	Screening Criteria <sup>(1)</sup>	Sample ID Depth (ft bgs) Date	B212-PBH-05-02 0.2 - 5.0 06/10/2008	B212-PBH-08-02 0.2 - 3.0 06/10/2008	B212-PBH-09-02 0.2 - 3.0 06/10/2008	B212-PBH-16-02 0.2 - 2.0 06/10/2008	B212-PBH-21-02 0.2 - 2.0 06/11/2008
<b>Metals by Method 6010/7471 (mg/Kg)</b>							
Cadmium	2.5 <sup>(2)</sup>		0.26 J	0.24 J	0.19 J	0.20 J	0.31
Chromium	30 <sup>(2)</sup>		10.0	9.7	10.1	8.5	<b>40.4</b>
Lead	63 <sup>(2)</sup>		6.5	9.7	4.6	8.6	13.4
Mercury	0.18 <sup>(2)</sup>		0.025	0.044	0.031	0.040	0.016 J
Aluminum	15800 <sup>(3)</sup>			12000			
Antimony	2.17 <sup>(4)</sup>			0.74 U			
Arsenic	13 <sup>(2)</sup>			2.3 J			
Barium	350 <sup>(2)</sup>			94.4			
Beryllium	7.2 <sup>(2)</sup>			0.51			
Calcium	9190 <sup>(3)</sup>			2570			
Cobalt	13.3 <sup>(3)</sup>			6.8			
Copper	50 <sup>(2)</sup>			7.5			
Iron	25600 <sup>(3)</sup>			16300			
Magnesium	5130 <sup>(3)</sup>			1930			
Manganese	1600 <sup>(2)</sup>			446			
Nickel	30 <sup>(2)</sup>			7.9			
Potassium	1890 <sup>(3)</sup>			408			
Selenium	3.9 <sup>(2)</sup>			0.81 U			
Silver	2 <sup>(2)</sup>			0.14 U			
Sodium	211 <sup>(3)</sup>			152 U			
Thallium	16.3 <sup>(4)</sup>			0.41 U			
Vanadium	31 <sup>(3)</sup>			22.2			
Zinc	109 <sup>(2)</sup>			49.7			

<sup>(1)</sup> Bold and shaded values exceed screening criteria.

<sup>(2)</sup> Part 375-6.8 Unrestricted Use Soil Cleanup Objectives.

<sup>(3)</sup> NYS background (95th percentile), Source-Distant Data Set from NYS Brownfield Cleanup Program, Technical Support Document, Appendix D, September 2006.

<sup>(4)</sup> Eastern United States background (95th percentile) from Shacklette and Boerngen 1984.

Key:

bgs = Below ground surface.

J = Estimated value ("-" is biased low and "+" is biased high).

U = Not detected at the reporting limit shown.

mg/Kg = Milligrams/kilogram.

/D = Field duplicate sample.

Blank spaces indicate metals were not analyzed.

### **3.0 INSTITUTIONAL AND ENGINEERING CONTROL PLAN**

#### **3.1 General**

Since remaining contamination exists at the site, ICs and ECs are required to protect human health and the environment. This IC/EC Plan describes the procedures for the implementation and management of all IC/ECs at the site. The IC/EC Plan is one component of the SMP and is subject to revision by the NYSDEC project manager.

This plan provides:

- A description of all IC/ECs on the site;
- The basic implementation and intended role of each IC/EC;
- A description of the key components of the ICs set forth in the Environmental Notice and Environmental Easement;
- A description of the controls to be evaluated during each required inspection and periodic review;
- A description of plans and procedures to be followed for implementation of IC/ECs, such as the implementation of the Excavation Work Plan (EWP) (as provided in Appendix D) for the proper handling of remaining contamination that may be disturbed during maintenance or redevelopment work on the site; and
- Any other provisions necessary to identify or establish methods for implementing the IC/ECs required by the site remedy, as determined by the NYSDEC project manager.

#### **3.2 Institutional Controls**

A series of ICs is required by the ROD to: (1) implement, maintain and monitor EC systems; (2) prevent future exposure to remaining contamination; and, (3) limit the use and development of the site to commercial and industrial uses only. Adherence to these ICs on the site is required by the Environmental Notice and will be implemented under this SMP. ICs identified in the Environmental Notice may not be discontinued without an amendment

to or extinguishment of the Environmental Notice. The IC boundary is shown on Figure 1-2. These ICs are:

- The property may be used for: commercial and industrial use;
- All ECs must be operated and maintained as specified in this SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Washington County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this SMP;
- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Notice;

### **3.3 Engineering Controls**

#### **3.3.1 Cover (or Cap)**

Exposure to remaining contamination at the site is prevented by a cover system placed over the site. This cover system is comprised of a minimum of 12 inches of sand covered by between 6 inches to five feet of clay. The EWP (Appendix D) outlines the

procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed. Procedures for the inspection of this cover are provided in the Monitoring and Sampling Plan included in Section 4.0 of this SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and associated Community Air Monitoring Plan (CAMP) prepared for the site and provided in Appendix E. Any breach of the site's cover system must be overseen by Professional Engineer (PE) who is licensed and registered in New York State or a qualified person who directly reports to a PE who is licensed and registered in New York State.

#### 3.3.3.1 Cover (or Cap)

The composite cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in accordance with this SMP in perpetuity.

#### 3.3.3.2 Monitoring Wells associated with Monitored Natural Attenuation

Groundwater monitoring activities to assess natural attenuation will continue, as determined by the NYSDEC project manager in consultation with NYSDOH project manager and in accordance with the 1994 Consent Decree, until residual groundwater concentrations are found to be consistently below ambient water quality standards, the site SCGs, or have become asymptotic at an acceptable level over an extended period. In the event that monitoring data indicates that monitoring for natural attenuation may no longer be required, a proposal to discontinue the monitoring will be submitted by the remedial party. Monitoring will continue until permission to discontinue is granted in writing by the NYSDEC project manager. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

## 4.0 MONITORING AND SAMPLING PLAN

### 4.1 General

This Monitoring and Sampling Plan describes the measures for evaluating the overall performance and effectiveness of the remedy. This Monitoring and Sampling Plan may only be revised with the approval of the NYSDEC project manager. Details regarding the sampling procedures, data quality usability objectives, analytical methods, etc. for all samples collected as part of site management for the site are included in the Quality Assurance Project Plan provided in Appendix F.

This Monitoring and Sampling Plan describes the methods to be used for:

- Sampling and analysis of all appropriate media (e.g., groundwater, indoor air, soil vapor, soils);
- Assessing compliance with applicable NYSDEC SCGs, particularly groundwater standards and Part 375 SCOs for soil; and
- Evaluating site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment;

To adequately address these issues, this Monitoring and Sampling Plan provides information on:

- Sampling locations, protocol and frequency;
- Information on all designed monitoring systems;
- Analytical sampling program requirements;
- Inspection and maintenance requirements for monitoring wells;
- Monitoring well decommissioning procedures; and
- Annual inspection and periodic certification.

Reporting requirements are provided in Section 7.0 of this SMP.

#### **4.2 Site – wide Inspection**

Site-wide inspections will be performed quarterly as required by the 1994 Consent Decree. These quarterly inspections must be conducted when the ground surface is visible (i.e. no snow cover).

The inspector(s) will monitor the general condition of the site and specifically check and monitor the following conditions:

- The inspector(s) will insure that the grass cover is being mowed and that it is being kept to a height of six inches or less.
- The inspector(s) will insure the integrity of all fencing and gates at the site and insure that all required signs are in place and legible.
- The inspector(s) will insure the integrity of all sampling wells at the site and insure that all caps are properly secured and locked.
- The inspector(s) will insure the integrity of the impervious cap and cover material over the cap. The inspector(s) will examine the cover condition to determine whether or not any erosion has occurred in any area and specifically determine whether or not any burrowing animals are on the site and have created a condition detrimental to the integrity of the site.

Site-wide inspections will be performed by a qualified environmental professional as defined in 6 NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State (depending on the need to evaluate engineering controls). Modification to the frequency or duration of the inspections will require approval from the NYSDEC project manager. Site-wide inspections will also be performed after all severe weather conditions that may affect ECs or monitoring devices. During these inspections, an inspection form

will be completed as provided in Appendix G – Site Management Forms. The form will compile sufficient information to assess the following:

- Compliance with all ICs, including site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General site conditions at the time of the inspection;
- Whether stormwater management systems, such as basins and outfalls, are working as designed;
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection; and
- Confirm that site records are up to date.

Inspections of all remedial components installed at the site will be conducted. A comprehensive site-wide inspection will be conducted and documented according to the SMP schedule, regardless of the frequency of the Periodic Review Report. The inspections will determine and document the following:

- Whether ECs continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Notice;
- Achievement of remedial performance criteria; and
- If site records are complete and up to date.

Reporting requirements are outlined in Section 7.0 of this plan.

Inspections will also be performed in the event of an emergency. If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs that reduces or has the potential to reduce the effectiveness of ECs in place at the site, verbal notice to the NYSDEC project manager must be given by noon of the following day. In addition, an

inspection of the site will be conducted within 5 days of the event to verify the effectiveness of the IC/ECs implemented at the site by a QEP, as defined in 6 NYCCR Part 375. Written confirmation must be provided to the NYSDEC project manager within 7 days of the event that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public. The remedial party will submit follow-up status reports to the NYSDEC within 45 days of the event on actions taken to respond to any emergency event requiring ongoing responsive action describing and documenting actions taken to restore the effectiveness of the ECs.

### 4.3 Post-Remediation Media Monitoring and Sampling

Samples shall be collected from the site groundwater monitoring wells on a routine basis as required by the 1994 Consent Decree. Sampling locations, required analytical parameters and schedule are provided in Table 4-1 – Remedial System Sampling Requirements and Schedule below. Modification to the frequency or sampling requirements will require approval from the NYSDEC project manager.

**Table 4-1: Post Remediation Sampling Requirements and Schedule**

Sampling Location	Analytical Parameter	Schedule
	PCBs (EPA Method SW-846)	
MW-1	X	Semi-annually
MW-2	X	Semi-annually
MW-3D	X	Semi-annually
MW-3S	X	Semi-annually
MW-05	X	Semi-annually
MW-06	X	Semi-annually
MW-07	X	Semi-annually

Detailed sample collection and analytical procedures and protocols are provided in Appendix H – Field Activities Plan and Appendix F – Quality Assurance Project Plan.

#### 4.3.1 Groundwater Sampling

Groundwater monitoring will be performed semi-annually to assess the performance of the remedy. Modification to the frequency or sampling requirements will require approval from the NYSDEC project manager.

The network of monitoring wells has been installed to verify that PCBs are not moving into the waters of the Hudson River and Champlain Canal from the site. The existing series of seven groundwater monitoring wells will be monitored by the NYSDOT as long as required by the governing TSCA authorization and the 1994 Consent Decree. As part of the remedy monitoring program, the results will be evaluated to determine if any modifications to the remedy or monitoring program are warranted.

Table 4-2 summarizes the wells identification number, as well as the location, depths, diameter and screened intervals of the wells. As part of the groundwater monitoring, **seven** on-site wells are sampled to evaluate the effectiveness of the remedial system. The monitoring wells are shown on Figure 4-1. The remedial party will measure depth to the water table for each monitoring well in the network before sampling.

Monitoring well construction logs for MW-05, MW-06, and MW-07 are included in Appendix I of this document. Well construction logs for MW-1, MW-2, MW3D, MW3S, and MW-4 are not available.

If biofouling or silt accumulation occurs in the on-site and/or off-site monitoring wells, the wells will be physically agitated/surged and redeveloped. Additionally, monitoring wells will be properly decommissioned and replaced, if an event renders the wells unusable.

**Table 4-2: Monitoring Well Construction Details, Buoy 212 Dredge Spoil Disposal Area, Fort Edward, New York**

<b>Monitoring Well ID</b>	<b>X Coordinate</b>	<b>Y Coordinate</b>	<b>TOIC Elevation (ft AMSL)</b>	<b>Ground Surface Elevation (ft AMSL)</b>	<b>Total Well Depth (ft BGS)</b>	<b>Inner Diameter (inches)</b>	<b>Screen Interval (ft BGS)</b>	<b>Sand Pack Interval (ft BGS)</b>
B212-MW01	733160.2980	1606408.2042	130.31	129.18	41.68	Unknown	Data not available	
B212-MW02	732987.9816	1607091.8470	127.18	125.67	38.16	Unknown	Data not available	
B212-MW03S	733134.5200	1607213.5539	133.17	132.08	14.94	Unknown	Data not available	
B212-M3D	733127.1394	1607209.7672	133.24	132.19	49.55	Unknown	Data not available	
B212-MW04	733163.2069	1607208.2859	130.89	129.54	19.01	Unknown	Data not available	
B212-MW05	733044.1763	1606857.4290	137.21	134.94	23	2	23 - 13	23.3 - 11
B212-MW06	733114.4298	1606555.4047	135.49	133.18	22	2	22 - 12	23 - 10
B212-MW07	733259.7787	1606399.8765	127.59	125.33	16	2	16 - 6	17 - 5

Notes:

1. Horizontal Datum is North American Datum 1983 (NAD 83) and coordinates are reported in State Plane Coordinate System, New York East Zone (feet).
2. Vertical datum is North American Vertical Datum 1988 (NAVD 88).

Key:

AMSL = above mean sea level.

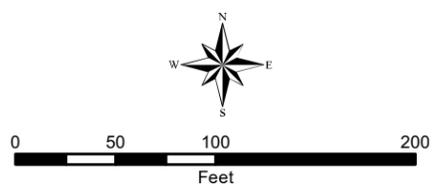
BGS = below ground surface.

ft = feet.

TOIC = top of inner casing.



- Monitoring Well
- Fence



**Figure 4-1**  
**Location of Monitoring Wells**  
**Buoy 212 Dredge Soil Disposal Area**  
**Fort Edward, New York**

Repairs and/or replacement of wells in the monitoring well network will be performed based on assessments of structural integrity and overall performance.

The NYSDEC project manager will be notified prior to any repair or decommissioning of any monitoring well for the purpose of replacement, and the repair or decommissioning and replacement process will be documented in the subsequent Periodic Review Report. Well decommissioning without replacement will be done only with the prior approval of the NYSDEC project manager. Well abandonment will be performed in accordance with NYSDEC's guidance entitled "Commissioner Policy (CP)-43: Groundwater Monitoring Well Decommissioning Procedures." Monitoring wells that are decommissioned because they have been rendered unusable will be replaced in kind in the nearest available location, unless otherwise approved by the NYSDEC project manager.

The sampling frequency may only be modified with the approval of the NYSDEC project manager. This SMP will be modified to reflect changes in sampling plans approved by the NYSDEC project manager.

Deliverables for the groundwater monitoring program are specified in Section 7.0 – Reporting Requirements.

#### 4.3.2 Monitoring and Sampling Protocol

All sampling activities will be recorded in a field book and associated sampling log as provided in Appendix G - Site Management Forms. Other observations (e.g., groundwater monitoring well integrity) will be noted on the sampling log. The sampling log will serve as the inspection form for the monitoring network. Additional detail regarding monitoring and sampling protocols are provided in the site-specific Field Activities Plan provided as Appendix H of this document.

## **5.0 OPERATION AND MAINTENANCE PLAN**

### **5.1 General**

The site remedy does not rely on any mechanical systems, such as groundwater treatment systems, sub-slab depressurization (SSD) systems or air sparge/soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in this SMP.

## **6.0 PERIODIC ASSESSMENTS/EVALUATIONS**

### **6.1 Climate Change Vulnerability Assessment**

Increases in both the severity and frequency of storms/weather events, an increase in sea level elevations along with accompanying flooding impacts, shifting precipitation patterns and wide temperature fluctuation, resulting from global climactic change and instability, have the potential to significantly impact the performance, effectiveness and protectiveness of a given site and associated remedial systems. Vulnerability assessments provide information so that the site and associated remedial systems are prepared for the impacts of the increasing frequency and intensity of severe storms/weather events and associated flooding.

This section provides a summary of vulnerability assessments that will be conducted for the site during periodic assessments, and briefly summarizes the vulnerability of the site and/or ECs to severe storms/weather events and associated flooding.

A vulnerability assessment has not been prepared for the site at the time of the preparation of the SMP since inspections of the engineering control cap will be performed quarterly and in the event of an emergency, as discussed in Section 4.2.

### **6.2 Green Remediation Evaluation**

NYSDEC's DER-31 Green Remediation requires that green remediation concepts and techniques be considered during all stages of the remedial program including site management, with the goal of improving the sustainability of the cleanup and summarizing the net environmental benefit of any implemented green technology. This section of the SMP provides a summary of any green remediation evaluations to be completed for the site during site management, and as reported in the Periodic Review Report (PRR).

### 6.2.1 Frequency of System Checks, Sampling and Other Periodic Activities

Transportation to and from the Site, use of consumables in relation to visiting the Site in order to conduct system checks and/or collect samples, and shipping samples to a laboratory for analyses have direct and/or inherent energy costs. The schedule and/or means of these periodic activities have been prepared so that these tasks can be accomplished in a manner that does not impact remedy protectiveness but reduces expenditure of energy or resources.

Consideration shall be given to:

- Coordination/consolidation of activities to maximize foreman/labor time; and
- Use of mass transit for site visits, where available.

### 6.2.2 Metrics and Reporting

As discussed in Section 7.0 and as shown in the NYSDEC DER 10 / Green Remediation document (Appendix G – Site Management Forms), information on energy usage, solid waste generation, transportation and shipping, water usage and land use and ecosystems will be recorded to facilitate and document consistent implementation of green remediation during site management and to identify corresponding benefits. A set of metrics has been developed.

## 7.0. REPORTING REQUIREMENTS

### 7.1 Site Management Reports

All site management inspection, maintenance and monitoring events will be recorded on the appropriate site management forms. These forms are subject to NYSDEC revision. All site management inspection, maintenance, and monitoring events will be conducted by a qualified environmental professional as defined in 6 NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State.

All applicable inspection forms and other records, including media sampling data and system maintenance reports, generated for the site during the reporting period will be provided in electronic format to the NYSDEC in accordance with the requirements of Table 7-1 and summarized in the Periodic Review Report.

**Table 7-1: Schedule of Interim Monitoring/Inspection Reports**

<b>Task/Report</b>	<b>Reporting Frequency*</b>
Inspection Report	Quarterly
Periodic Review Report	Annually, or as otherwise determined by the NYSDEC

\* The frequency of events will be conducted as specified until otherwise approved by the NYSDEC project manager.

All interim monitoring/inspections reports will include, at a minimum:

- Date of event or reporting period;
- Name, company, and position of person(s) conducting monitoring/inspection activities;
- Description of the activities performed;

- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet);
- Type of samples collected (e.g., groundwater, sub-slab vapor, indoor air, outdoor air);
- Copies of all field forms completed (e.g., well sampling logs, chain-of-custody documentation);
- Sampling results in comparison to appropriate standards/criteria;
- A figure illustrating sample type and sampling locations;
- Copies of all laboratory data sheets and the required laboratory data deliverables required for all points sampled (to be submitted electronically in the NYSDEC-identified format);
- Any observations, conclusions, or recommendations; and
- A determination as to whether contaminant conditions have changed since the last reporting event.

Routine maintenance event reporting forms will include, at a minimum:

- Date of event;
- Name, company, and position of person(s) conducting maintenance activities;
- Description of maintenance activities performed;
- Any modifications to the system;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet); and
- Other documentation such as copies of invoices for maintenance work, receipts for replacement equipment, etc., (attached to the checklist/form).

Non-routine maintenance event reporting forms will include, at a minimum:

- Date of event;
- Name, company, and position of person(s) conducting non-routine maintenance/repair activities;

- Description of non-routine activities performed;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents (included either on the form or on an attached sheet); and
- Other documentation such as copies of invoices for repair work, receipts for replacement equipment, etc. (attached to the checklist/form).

Data will be reported in digital format as determined by the NYSDEC. Currently, data is to be supplied electronically and submitted to the NYSDEC EQuIS™ database in accordance with the requirements found at this link <http://www.dec.ny.gov/chemical/62440.html>.

## **7.2 Quarterly Inspection Report**

The inspector(s) will prepare a quarterly inspection report detailing each condition of the site noted which requires correction. If there are no conditions requiring correction or repair, the quarterly inspection report shall so state. The quarterly inspection report shall also note whether or not a condition(s) previously reported has been corrected.

Any deficiencies or problems noted in the quarterly inspection report will be corrected within sixty (60) days of the notice of the condition. Any conditions which require an emergency response will be corrected on an emergency basis.

## **7.3 Periodic Review Report**

A Periodic Review Report (PRR) will be submitted to the NYSDEC project manager beginning sixteen (16) months after the Certificate of Completion or equivalent document is issued. After submittal of the initial Periodic Review Report, the next PRR shall be submitted annually to the NYSDEC project manager or at another frequency as may be required by the NYSDEC project manager. In the event that the site is subdivided into separate parcels with different ownership, a single Periodic Review Report will be prepared that addresses the site described in Appendix A -Environmental Notice. The

report will be prepared in accordance with NYSDEC's DER-10 and submitted within 30 days of the end of each certification period. Media sampling results will also be incorporated into the Periodic Review Report. The report will include:

- Identification, assessment and certification of all ECs/ICs required by the remedy for the site.
- Results of the required quarterly site inspections, fire inspections and severe condition inspections, if applicable.
- Description of any change of use, import of materials, or excavation that occurred during the certifying period.
- All applicable site management forms and other records generated for the site during the reporting period in the NYSDEC-approved electronic format, if not previously submitted.
- Identification of any wastes generated during the reporting period, along with waste characterization data, manifests, and disposal documentation.
- A summary of any discharge monitoring data and/or information generated during the reporting period, with comments and conclusions.
- Data summary tables and graphical representations of contaminants of concern by media (groundwater, soil vapor, etc.), which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These tables and figures will include a presentation of past data as part of an evaluation of contaminant concentration trends, including but not limited to:
  - Trend monitoring graphs that present groundwater contaminant levels from before the start of the remedy implementation to the most current sampling data;
  - Operation and Maintenance (O&M) data summary tables;
  - A current plume map for sites with remaining groundwater contamination; and
  - A groundwater elevation contour map for each gauging event.
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted in digital format as determined by the NYSDEC. Currently, data is supplied electronically and submitted to the NYSDEC EQulS™ database in accordance with the requirements found at this link: <http://www.dec.ny.gov/chemical/62440.html>.

- A site evaluation, which includes the following:
  - The compliance of the remedy with the requirements of the site-specific Remedial Action Work Plan (RAWP), ROD or Decision Document;
  - The operation and the effectiveness of all treatment units, etc., including identification of any needed repairs or modifications;
  - Any new conclusions or observations regarding site contamination based on inspections or data generated by the Monitoring and Sampling Plan for the media being monitored;
  - Recommendations regarding any necessary changes to the remedy and/or Monitoring and Sampling Plan;
  - An evaluation of trends in contaminant levels in the affected media to determine if the remedy continues to be effective in achieving remedial goals as specified by the RAWP, ROD or Decision Document; and
  - The overall performance and effectiveness of the remedy.
  
- The NYSDOT currently submits annual reports as required under the 1979 TSCA Approval, the 1986 Consent Order, and the 1994 Consent Decree. A reference to these reports should be included in the PRR and, if available, added as an Appendix to the PRR.

### 7.3.1 Certification of Institutional and Engineering Controls

Following the last inspection of the reporting period, a Professional Engineer licensed to practice and registered in New York State will prepare, and include in the Periodic Review Report, the following certification as per the requirements of NYSDEC DER-10:

*“For each institutional or engineering control identified for the site, I certify that all of the following statements are true:*

- *The inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;*

- *The institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by the Department;*
- *Nothing has occurred that would impair the ability of the control to protect the public health and environment;*
- *Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;*
- *Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;*
- *If a financial assurance mechanism is required under the oversight document for the site, the mechanism remains valid and sufficient for the intended purpose under the document;*
- *Use of the site is compliant with the environmental notice;*
- *The engineering control systems are performing as designed and are effective;*
- *To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program and generally accepted engineering practices; and*
- *The information presented in this report is accurate and complete.*

*I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class “A” misdemeanor, pursuant to Section 210.45 of the Penal Law. I, [name], of [business address], am certifying as [Owner/Remedial Party or Owner’s/Remedial Party’s Designated Site Representative). [I have been authorized and designated by all site owners/remedial parties to sign this certification] for the site.”*

*“I certify that the New York State Education Department has granted a Certificate of Authorization to provide Professional Engineering services to the firm that prepared this Periodic Review Report.”*

The signed certification will be included in the Periodic Review Report.

The Periodic Review Report will be submitted, in electronic format, to the NYSDEC project manager and the NYSDOH project manager. The Periodic Review Report may also need to be submitted in hard-copy format if requested by the NYSDEC project manager.

#### **7.4 Corrective Measures Work Plan**

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an IC or EC or failure to conduct site management activities, a Corrective Measures Work Plan will be submitted to the NYSDEC project manager for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the Corrective Measures Work Plan until it has been approved by the NYSDEC project manager.

## **8.0 REFERENCES**

6 NYCRR Part 375, Environmental Remediation Programs. December 14, 2006.

NYSDEC DER-10 – “Technical Guidance for Site Investigation and Remediation”.

NYSDEC DER-31 – “Green Remediation”.

NYSDEC, 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1. June 1998 (April 2000 addendum).

**APPENDIX A – ENVIRONMENTAL NOTICE  
AND EASEMENT**

**ENVIRONMENTAL NOTICE**

**To be issued in lieu of Environmental Easement/Deed Restriction as referenced in DER-33**

**THIS ENVIRONMENTAL NOTICE** is made the 11<sup>th</sup> day of December 2015, by the New York State Department of Environmental Conservation (Department), having an office for the transaction of business at 625 Broadway, Albany, New York 12233.

**WHEREAS**, a parcel of real property identified as Buoy 212 Dredge Spoil Disposal Area (Site # 558018), located on Route 4- Hudson River 1.3 miles south of Lock 7 in the Village of Fort Edward, County of Washington, State of New York, which is part of lands formerly of Norma A. Henderson and Toni Bennett, appropriated by the New York State Department of Transportation by Appropriation dated November 25, 1979 and recorded in the Washington County Clerk's Office on November 29, 1979 in Book 474 of Deeds at Page 693 and being more particularly described in Appendix "A", attached to this noticed and made a part hereof, and hereinafter referred to as "the Property" is the subject of a Order on Consent executed by New York Department of Transportation as part of the Department's State Superfund Program; and

**WHEREAS**, the Department approved a cleanup to address contamination disposed at the Property and such cleanup was conditioned upon certain limitations.

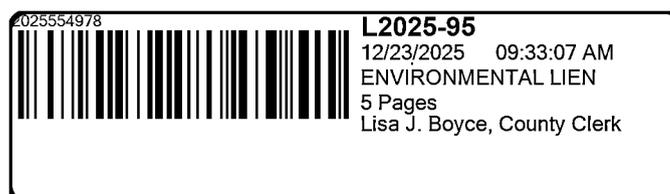
**NOW, THEREFORE**, the Department provides notice that:

**FIRST**, the Property subject to this Environmental Notice is as shown on a map attached to this Notice as Appendix "B" and made a part hereof.

**SECOND**, unless prior written approval by the Department or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, where contamination remains at the Property subject to the provisions of the Site Management Plan ("SMP"), there shall be no disturbance or excavation of the Property which threatens the integrity of the engineering controls or which results or may result in a significantly increased threat of harm or damage at any site as a result of exposure to soils. A violation of this provision is a violation of 6 NYCRR 375-1.11(b)(2).

**THIRD**, no person shall disturb, remove, or otherwise interfere with the installation, use, operations, and maintenance of engineering controls required for the Remedy, including but not limited to those engineering controls described in the SMP and listed below, unless in each instance they first obtain a written waiver of such prohibition from the Department or Relevant Agency.

**FOURTH**, the remedy was designed to be protective for the following uses: **Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)** Commercial use Therefore, any use for purposes other than Commercial and Industrial without the express written waiver of such prohibition by the Relevant Agency may result in a significantly increased threat of harm or damage at any site.



**FIFTH**, no person shall use the groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Department or Relevant Agency. Use of the groundwater without appropriate treatment may result in a significantly increased threat of harm or damage at any site.

**SIXTH**, it is a violation of 6 NYCRR 375-1.11(b) to use the Property in a manner inconsistent with this environmental notice.

**IN WITNESS WHEREOF**, the undersigned, acting by and through the Department of Environmental Conservation as Designee of the Commissioner, has executed this instrument the day written below.

By: Andrew Guglielmi  
Andrew Guglielmi, Director  
Division of Remediation

STATE OF NEW YORK     )  
  ) ss:  
COUNTY OF                    )

On the 11th day of December in the year 2025, before me, the undersigned, personally appeared Andrew Guglielmi, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his signature on the instrument, the individual, or the person upon behalf of which individual acted, executed the instrument.

Cheryl A. Salem  
Notary Public - State of New York

Cheryl A. Salem  
Notary Public State of New York  
Registration No. 01SA0002177  
Qualified in Albany County  
My Commission Expires March 3, 2027

**Appendix "A"**

Tax Map No. 179.00-1-21  
Restricted Area - West  
5.38± Acres

ALL THAT TRACT OR PARCEL OF LAND situate in the Town of Fort Edward, County of Washington, State of New York, bounded and described as follows:

BEGINNING AT the northwest corner of lands conveyed to General Electric Company by deed recorded in the Washington County Clerk's Office in Liber 2635 of Deeds at Page 181 and as shown as Parcel A on a map of a subdivision of land made for Nancy & Daryl Lane as filed in the Washington County Clerk's Office as Map No. 24B-115; said point being also on the east line of lands appropriated by The People of the State of New York as shown on Map No. 61, dated February 10, 1905;

RUNNING THENCE: S-66°-52'-54"-W, a distance of 212.25 feet to a point;

RUNNING HENCE: N-33°-36'-08"-W, a distance of 45.11 feet to a point on the east waters edge of the Hudson River;

RUNNING THENCE: The following five (5) courses and distances along the east waters edge of the Hudson River:

1. N-14°-22'-53"-W, a distance of 97.93 feet to a point;
2. N-13°-35'-47"-W, a distance of 42.82 feet to a point;
3. N-12°-26'-03"-W, a distance of 36.64 feet to a point;
4. N-12°-26'-05"-W, a distance of 200.58 feet to a point;
5. N-12°-26'-04"-W, a distance of 555.86 feet to a point on the north line of said Map No. 61;

RUNNING THENCE: N-54°-09'-03"-E, along the north line of Map No. 61, a distance of 204.78 feet to the northeast corner of Map No. 61;

RUNNING THENCE: The following three (3) courses and distances along the east line of Map No. 61;

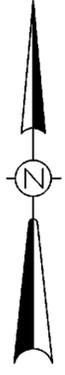
1. S-20°-50'-21"-E, a distance of 498.92 feet to a point;
2. S-08°-25'-22"-E, a distance of 493.61 feet to a point;
3. S-17°-22'-18"-E, a distance of 32.01 feet to the POINT OR PLACE OF BEGINNING, containing 5.38 Acres, be the same, more or less.

SUBJECT TO easements, rights-of-way and restrictions of record.

BEING AND INTENDED TO BE a portion of lands appropriated by The People of the State of New York as shown on Map No. 61, dated February 10, 1905.

(Note: This description was prepared from deeds and maps of record and is subject to any state of facts that a boundary survey or further title search may reveal.)

**Appendix "B"**



REPUTED OWNER  
**GARY K. MORENCY**  
 L-465, P-111  
 SBL NO. 179.00-1-32

FORMERLY  
**ALEXANDER SMITH**

N-54°-08'-03"-E  
 204.78'  
 (203.8' MAP)  
 NORTH LINE MAP NO. 61  
 N.E. CORNER  
 MAP NO. 61

S-67°-35'-15"-E  
 145.78'

RESTRICTED AREA - EAST  
 VACANT  
**1.11±Ac**

S-20°-50'-21"-E  
 (500.79 MAP)  
 498.92'  
 N-20°-50'-21"-W

S-06°-53'-14"-E  
 390.29'

REPUTED OWNER  
**NORMA A. HENDERSON & TONI BENNETT**  
 L-3282, P-140  
 SBL NO. 179.00-1-26.1

FORMERLY  
**FRANK & ROSE M. HENDERSON**  
 L-374, P-478

REPUTED OWNER  
**PEOPLE OF THE STATE OF NEW YORK**  
 MAP NO. 61  
 SBL NO. 179.00-1-21

RESTRICTED AREA - WEST  
 VACANT  
**5.38±Ac**

FORMERLY  
**WILLIAM D. STEVENSON**

HUDSON RIVER

N-12°-26'-04"-W  
 555.86'  
 APPROX. WATERS EDGE

S-52°-25'-21"-E  
 44.13'

S-02°-49'-52"-E  
 52.94'

S-03°-39'-36"-E  
 470.58'

N-08°-25'-22"-W  
 (493.61' MAP)  
 EAST LINE MAP NO. 61  
 493.61'

36.64'  
 N-12°-26'-03"-W  
 42.82'  
 N-13°-35'-47"-W

N-17°-22'-18"-W  
 32.01'  
 S-17°-22'-18"-E

S.W. CORNER  
 L-374, P-478

N.W. CORNER  
 L-2635, P-181

SOUTH LINE L-374, P-478  
 652.22' DEED & MAP  
 N-65°-03'-38"-E DEED & MAP

REPUTED OWNER  
**GENERAL ELECTRIC COMPANY**  
 L-2635, P-181  
 SBL NO. 179.00-1-7.1

SUBDIVISION MAP OF LAND MADE FOR  
 NANCY & DARYL LANE FILED IN THE  
 WASHINGTON COUNTY CLERK'S OFFICE  
 AS MAP NO. 248-115 (PARCEL A)

N-15°-34'-49"-W DEED  
 (308.12' MAP)  
 308.12'

- NOTES:**
- 1) THIS MAP WAS PREPARED BASED UPON TOWN OF FORT EDWARD SHAPE FILES AS PROVIDED BY WASHINGTON COUNTY REAL PROPERTY DIVISION AND SHAPE FILES AS PROVIDED BY NYSDEC. PLEASE NOTE THAT BEARINGS AND DISTANCES SHOWN ARE BASED UPON THE ABOVE REFERENCED FILES AND ARE SUBJECT TO VARIATION THAT MAY OCCUR BASED UPON AN ACTUAL GROUND SURVEY.
  - 2) (500.79 MAP) REFERS TO MAP NO. 61 OF LANDS APPROPRIATED BY THE PEOPLE OF THE STATE OF NEW YORK FOR USE OF THE IMPROVED CANALS, CHAPTER 147, LAWS OF 1903, MAP DATED FEBRUARY 10, 1905.

GRAPHIC SCALE



( IN FEET )  
 1 inch = 60 ft.

REVISION	REVISION

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS MAP IS A VIOLATION OF SECTION 7209, PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

**McINTOSH & McINTOSH, P.C.**  
 CONSULTING ENGINEERS, LAND SURVEYORS, PLANNERS  
 429 PINE STREET, LOCKPORT, NEW YORK 14094  
 PHONE 433-2535 PHONE 625-8360

**MAP OF BUOY 212 / SITE # 558018**

LOCATION **TOWN OF FORT EDWARD, WASHINGTON COUNTY, NEW YORK**

JOB No. **9376** SCALE: **1" = 60'** DATE: **FEBRUARY 5, 2019**

DRAWN	MAS
COMP.	JEM, III
DESC.	
CADFILE	8376-14.DWG

© 2019 McIntosh & McIntosh, P.C.  
 ALL RIGHTS RESERVED



WASHINGTON COUNTY – STATE OF NEW YORK  
 LISA J. BOYCE, COUNTY CLERK  
 383 BROADWAY, BUILDING A  
 FORT EDWARD, NY 12828

COUNTY CLERK'S RECORDING PAGE

\*\*\*THIS PAGE IS PART OF THE DOCUMENT – DO NOT DETACH\*\*\*



INSTRUMENT #: 2025-5886

Receipt#: 2025553768  
 Clerk: SD  
 Rec Date: 12/10/2025 02:45:30 PM  
 Doc Grp: RP  
 Descrip: EASEMENT  
 Num Pgs: 11  
 Rec'd Frm: FRONTIER ABSTRACT AND RESEARCH SERVICES

Party1: DENNISON BRITTANY M  
 Party2: PEOPLE OF THE STATE OF NEW YORK  
 Town: FORT EDWARD  
 179.-1-26.1

Recording:

Cover Page	5.00
Recording Fee	70.00
Cultural Ed	14.25
Records Management - Coun	1.00
Records Management - Stat	4.75
Additional Names	1.00
TP584	5.00

Sub Total: 101.00

Transfer Tax	
Transfer Tax - State	0.00

Sub Total: 0.00

Total: 101.00

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

\*\*\*\*\* Transfer Tax \*\*\*\*\*  
 Transfer Tax #: 955  
 Transfer Tax  
 Consideration: 0.00

Total: 0.00

Record and Return To:

ELECTRONICALLY RECORDED BY CSC

WARNING\*\*\*

\*\*\* Information may be amended during the verification process, and may not be reflected on this cover page.

THIS PAGE CONSTITUTES THE CLERK'S ENDORSEMENT, REQUIRED BY SECTION 316-a (5) & 319 OF THE REAL PROPERTY LAW OF THE STATE OF NEW YORK.

Lisa J. Boyce  
 Washington County Clerk

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

THIS INDENTURE made this 27<sup>th</sup> day of October, 2025, between Owner, Brittany M. Dennison and Amber-Leigh R. Dennison, having an address at 36 Henderson Way, Fort Edward, County of Washington, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee"), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

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

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

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

WHEREAS, Grantor, is the owner of real property located at the address of 36 Henderson Way in the Town of Fort Edward, County of Washington and State of New York, known and designated on the tax map of the County Clerk of Washington as tax map parcel number: Section 179, Block 1 Lot 26.1, being the same as that property conveyed to Grantor by deed dated June 27, 2025 and recorded in the Washington County Clerk's Office in Instrument No. 2025-3077. The property subject to this Environmental Easement (the "Controlled Property") comprises a portion of tax lot 26.1 of approximately 1.11 +/- acres, and is hereinafter more fully described in the Land Title Survey dated February 5, 2019, prepared by McIntosh & McIntosh, P.C., which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

**NOW THEREFORE**, in consideration of the mutual covenants contained herein, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(2) the institutional controls and/or engineering controls employed at such site:  
(i) are in-place;  
(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

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

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

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

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

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

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

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

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

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

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a

défense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

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

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

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

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

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

Parties shall address correspondence to:      Site Number: 558018  
Office of General Counsel  
NYSDEC  
625 Broadway  
Albany New York 12233-5500

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

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

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

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

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

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

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

**Remainder of Page Intentionally Left Blank**



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

Amber-Leigh R. Dennison:

By: [Signature]

Print Name: Amber-Leigh Dennison

Title: \_\_\_\_\_ Date: 10/14/25

**Grantor's Acknowledgment**

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

On the 14<sup>th</sup> day of October, in the year 2025, before me, the undersigned, personally appeared Amber-Leigh Dennison, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

[Signature]  
Notary Public - State of New York

JENNIFER L. BARCOMB  
NOTARY PUBLIC, STATE OF NEW YORK  
Registration No. 01BA6433790  
Qualified in Saratoga County  
Commission Expires MAY 23, 2026



**SCHEDULE "A" PROPERTY DESCRIPTION**

**Easement Description:**

ALL THAT TRACT OR PARCEL OF LAND situate in the Town of Fort Edward, County of Washington, State of New York, bounded and described as follows:

BEGINNING AT the northwest corner of lands conveyed to General Electric Company by deed recorded in the Washington County Clerk's Office in Liber 2635 of Deeds at Page 181 and as shown as Parcel A on a map of a subdivision of land made for Nancy & Daryl Lane as filed in the Washington County Clerk's Office as Map No. 24B-115; said point being also on the east line of lands appropriated by The People of the State of New York as shown on Map No. 61, dated February 10, 1905;

RUNNING THENCE: The following three (3) courses and distances along the east line of Map No. 61:

1. N-17°-22'-18"-W, a distance of 32.01 feet to a point;
2. N-08°-25'-22"-W, a distance of 493.61 feet to a point;
3. N-20°-50'-21"-W, a distance of 498.92 feet to the northeast corner of Map No. 61;

RUNNING THENCE: N-54°-09'-03"-E, a distance of 12.54 feet to a point;

RUNNING THENCE: S-67°-35'-15"-E, a distance of 145.76 feet to a point;

RUNNING THENCE: S-06°-53'-14"-E, a distance of 390.29 feet to a point;

RUNNING THENCE: S-52°-25'-21"-E, a distance of 44.13 feet to a point;

RUNNING THENCE: S-02°-49'-52"-E, a distance of 52.94 feet to a point;

RUNNING THENCE: S-03°-39'-36"-E, a distance of 470.58 feet to the POINT OR PLACE OF BEGINNING, containing 1.11 Acres, be the same, more or less.

SUBJECT TO easements, rights-of-way and restrictions of record.

BEING AND INTENDED TO BE a portion of lands conveyed to Norma A. Henderson and Toni Bennett by deed recorded in the Washington County Clerk's Office in Liber 3282 of Deeds at Page 140.

(Note: This description was prepared from deeds and maps of record and is subject to any state of facts that a boundary survey or further title search may reveal.)

## APPENDIX B – LIST OF SITE CONTACTS

<b>Name</b>	<b>Phone/Email Address</b>
Elyse DuBois, NYSDEC DER Project Manager	518-402-9683/elyse.dubois@dec.ny.gov
Benjamin Rung, NYSDEC Section Chief	518-402-9826/benjamin.rung@dec.ny.gov
Sarita Wagh, NYSDOH	518-402-7860/sarita.wagh@health.ny.gov

## **APPENDIX C – SITE SPECIFIC BORING LOGS**

# Borehole Record for MBH 01

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

BOREHOLE NO. MBH 01

DATE OF RECORDING



DRILLING LOG FOR MB01

Project Name Buoy 212

Site Location Ft Edwards, NY

Date Started/Finished 3/1/06

Drilling Company Geologic NY

Driller's Name Dave Lyons

Geologist's Name Rick Watt

Geologist's Signature [Signature]

Rig Type (s) CME 45

Drilling Method (s) HSA / Split spoon

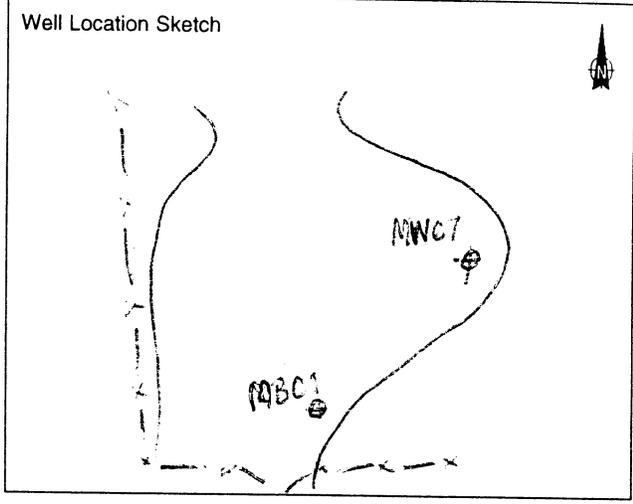
Bit Size (s) N/A Auger Size (s) 4 1/4" ID

Auger/Split Spoon Refusal N/A

Total Depth of Borehole Is 8'

Total Depth of Corehole Is N/A

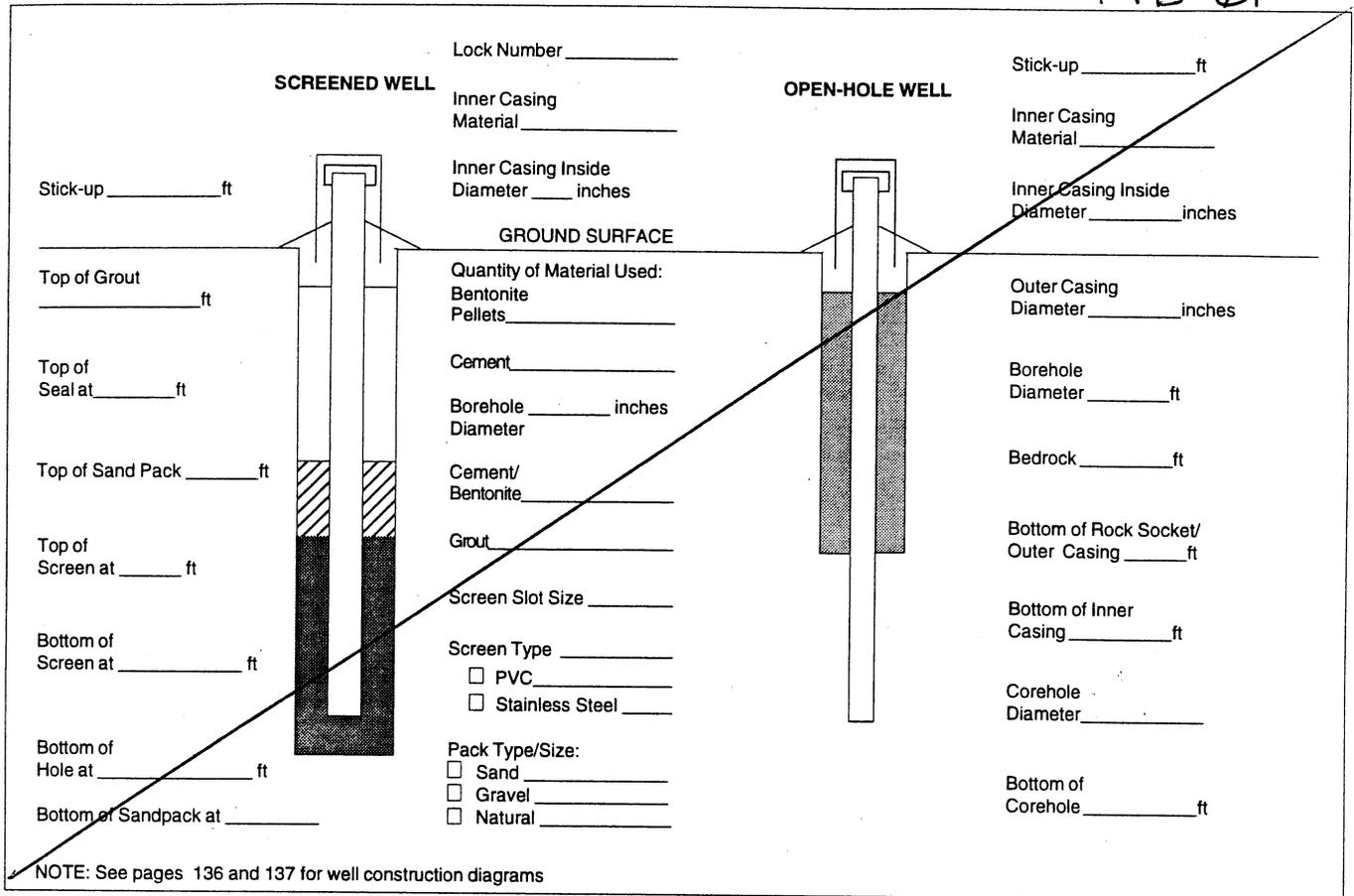
Water Level (TOIC)		
Date	Time	Level( Feet)



Depth(Feet)	Sample Number	Blows on Sampler		Soil Components Rock Profile CL SL S GR	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	PID H <sub>2</sub> O/A (ppm)	Comments
1	1	3	3				1.2'			0	
2		4	4								
3	2	3	10				1.8			0	
4		7	6								
5	3	7	7				2.0'			0.6	Sample MB01-01 5.5-6.0' 1040 PB success
6		6	6								
7	4	5	5				1.9'			0	Sample MB01-02 6.0-6.5' 1050 PB success
8		3	3								
9					3.0 H. = 8'						
10											
11											
12											
13											
14											
15											



MB-01



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0-2.6' Light brown/tan clay (cap); moist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	2.6'-2.7' Light brown, fine grained sand (cap); moist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	2.7'-6.0' Dark gray to black silty sand w/ wood fragments (spoils); <sup>thin</sup> gravel layer at top of interval.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	6-8' Gray fine-grained sand, wet (native)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BOREHOLE NO. MBH 01  
 DATE 11/1/02

# Borehole Record for MB-02

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

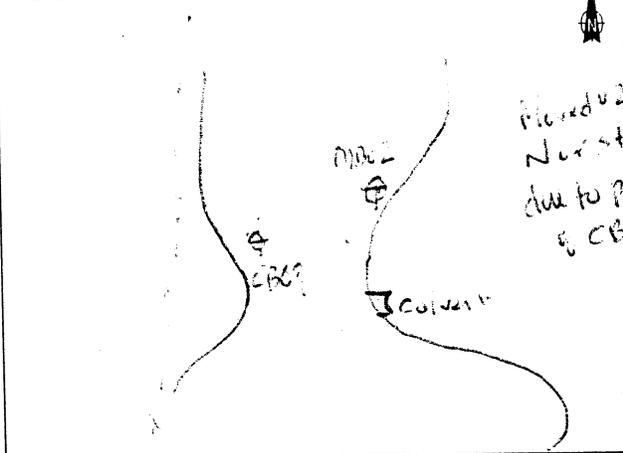


DRILLING LOG FOR M302

Project Name Boop 212  
 Site Location Fr. Edward, NY  
 Date Started/Finished 3/1/00  
 Drilling Company Geologic N?  
 Driller's Name Dave Lyons  
 Geologist's Name Rick Watt  
 Geologist's Signature [Signature]  
 Rig Type (s) CME 45  
 Drilling Method (s) HSA / split spoon  
 Bit Size (s) N/A Auger Size (s) 7/8" 10  
 Auger/Split Spoon Refusal N/A  
 Total Depth of Borehole Is 12'  
 Total Depth of Corehole Is N/A

Water Level (TOIC)		
Date	Time	Level (Feet)

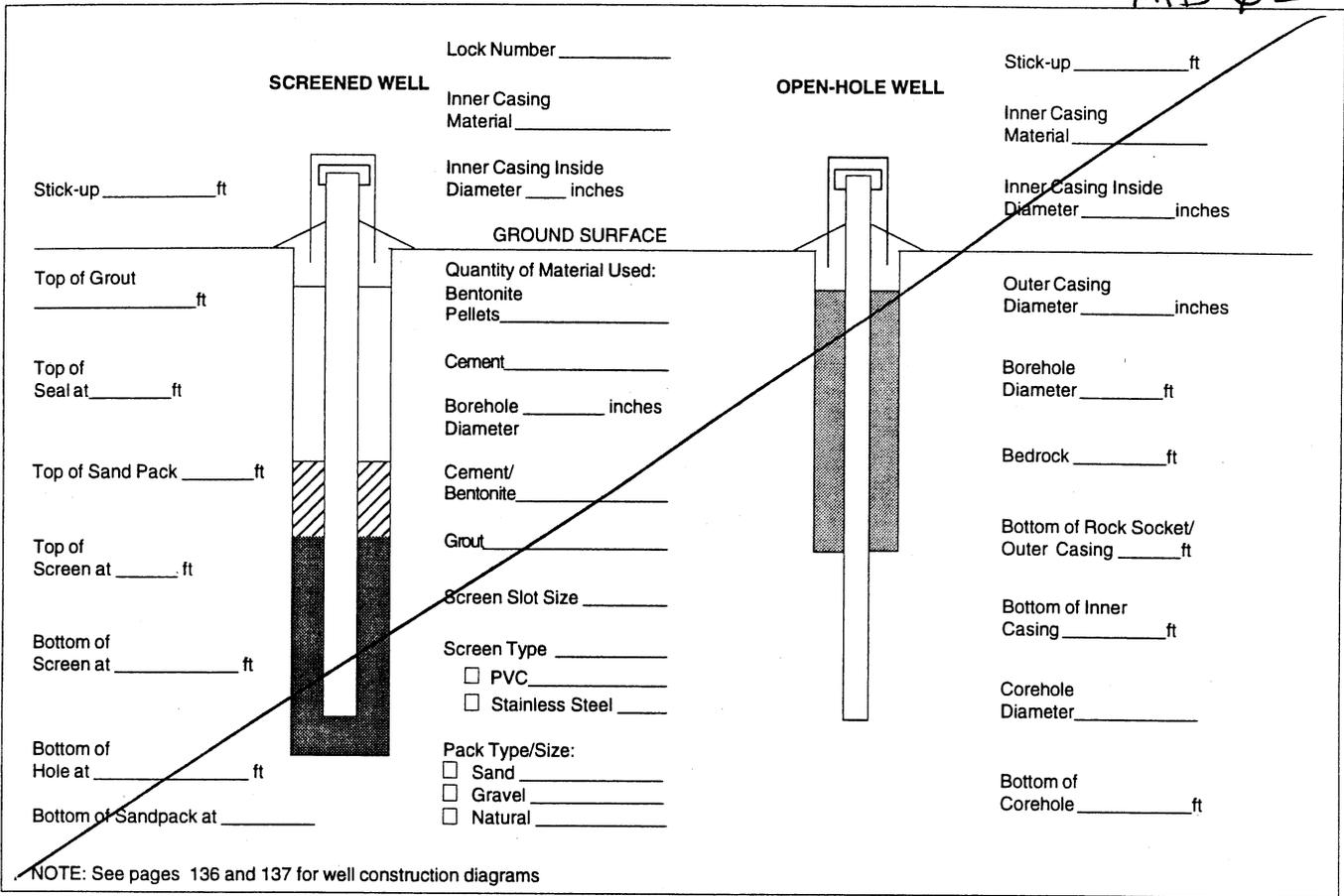
Well Location Sketch



Depth (Feet)	Sample Number	Blows on Sampler		Soil Components Rock Profile CL SL S GR	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	pH H <sub>2</sub> O <sub>2</sub> /O <sub>2</sub> A (ppm)	Comments
1	1	4	4				1.2'			0	
2		2	3								
3	2	2	2				2.0'			0	
4		2	2								
5	3	2	3				1.6'			0	sample M302-01 5-6' ISSC screen & full RCB + dupes by hand.
6		5	5								
7	4	2	3				1.1'			0	
8		7	7								
9	5	6	7				1.7'			0	sample M302-02 9.5-10' ISSC screen RCB
10		7	7								
11	6	4	3				2.0'			0	sample M302-03 10.5-11' ISSC screen RCB
12		2	2								
13											
14											
15											

B.O.H. = 12'  
12'

MB-02



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0-2' Light brown/tan clay (cap)	○	○	○
2	2-4.6' Light brown fine-grained sand (cap material); moist	○	○	○
3	4.6-10.5' Dark gray to black sand w/ trace silt, wood	○	○	○
4	Fragment @ 5.3' (probable spoils). Occasional	○	○	○
5	wood fragments @ depth.	○	○	○
6	10.5-12' Gray fine-grained sand; moist (native).	○	○	○
7		○	○	○
8		○	○	○
9		○	○	○
10		○	○	○
11		○	○	○
12		○	○	○
13		○	○	○
14		○	○	○
15		○	○	○

BOREHOLE NO. MB-02

Borehole Record for MBH-03

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

BOREHOLE NO. MBH 03

BOREHOLE NO. MBH 03

BOREHOLE F NO MBH 03



DRILLING LOG FOR MBH03

Project Name BOUY 212

Site Location Ft. Edward, NY

Date Started/Finished 2/10/06

Drilling Company -

Driller's Name DEEPA - Done by WAO

Geologist's Name JAN JENSEN

Geologist's Signature [Signature]

Rig Type (s) N/A

Drilling Method (s) Hand Auger (1")

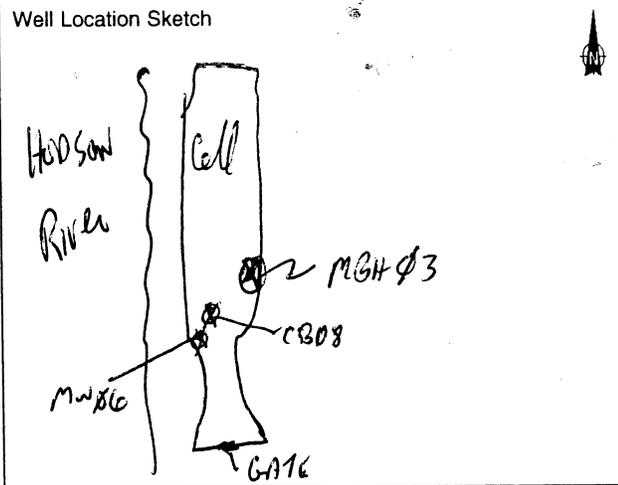
Bit Size (s) N/A Auger Size (s) 1 1/4"

Auger/Split Spoon Refusal -

Total Depth of Borehole Is 50'

Total Depth of Corehole Is -

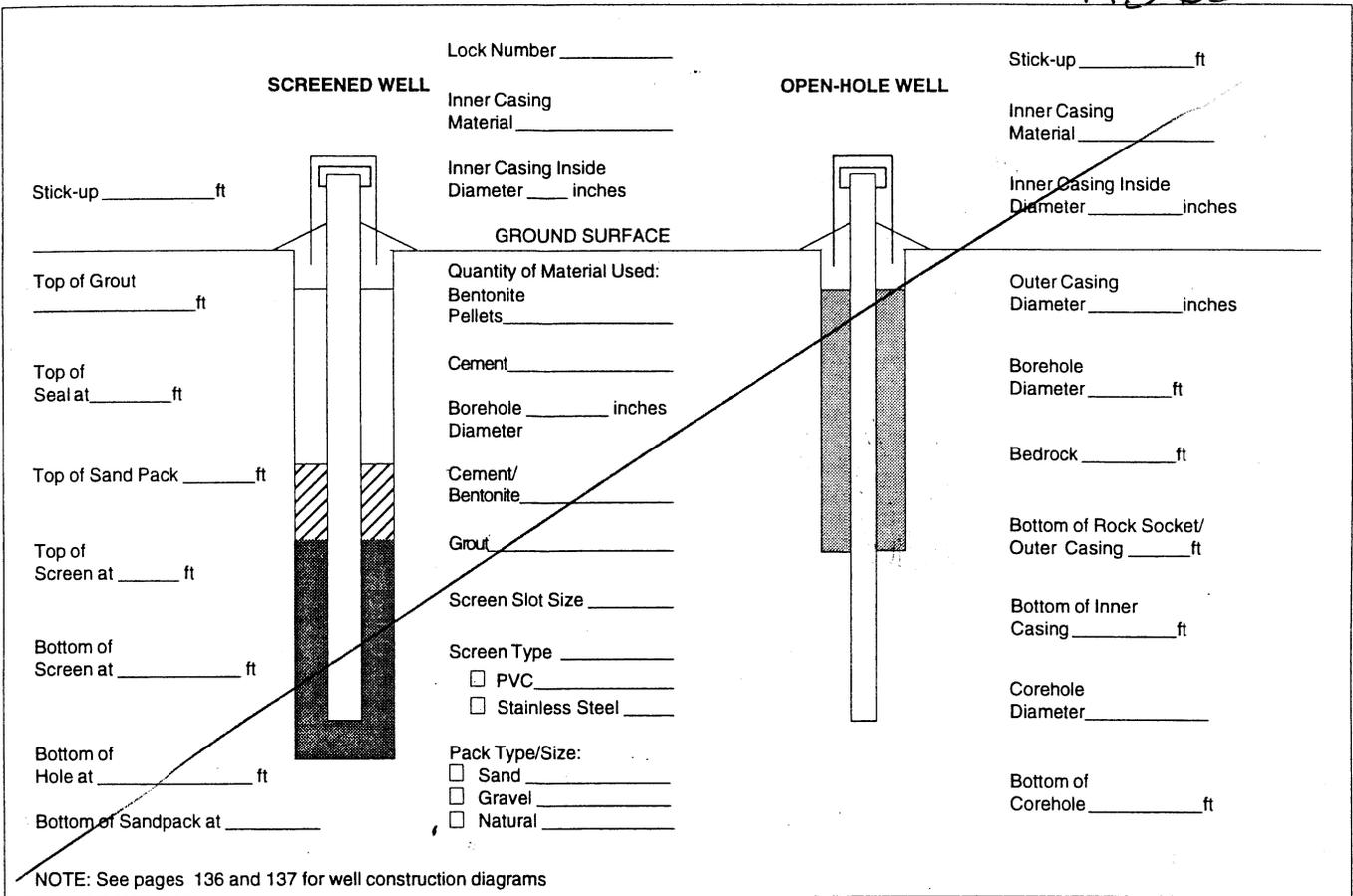
Water Level (TOIC)		
Date	Time	Level (Feet)



Depth (Feet)	Sample Number	Blows on Sampler	Soil Components Rock Profile CL SL S GR	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	P.D. H <sub>2</sub> O VA (ppm) D.P.O.	Comments
1	1		CL/SL	-	1	100%	-		0	1st Sample 0'-4" 1/11
2	2		S			100%			0	2nd Sample 4'-8" 1/11
3	3		S			100%			0	3rd Sample 8'-2" 1/11
4	3 (4)		SL			100%			0	
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

B.C. 14 = 4.5' BGS

MB-03



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0" - 9": BROWN IMP CLAY SILT; TANG GRAVEL (25%)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	9" - 1.2' TAN Fg - m.g BROWN SAND	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	1.2' - 2.2' IMPACTED SAND W/ TRAC G GRAVEL	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
4	w @ 2.7' BLS 2.5' - 3.2' Fg - m.g SAND, GRAVEL -	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
5	c. 5.2' w/water - sandy & ~ 10% w 3.0' - 3.2'	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
6	3.2' - 3.9' MOD SAND, IS ABLE, THE 3.9' - 4.2' DIRM	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
7	BROWN SILTY CLAY; SATURATED; LOW COLLISION	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BOREHOLE NO. MB-03

BOREHOLE NO. MB-03

BOREHOLE NO. MB-03

# Borehole Record for MBH 04

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

BOREHOLE NO. MBH 03

BOREHOLE NO. MBH 06

BOREHOLE NO. MBH 07

BOREHOLE NO. MBH 08



DRILLING LOG FOR 6212 MB11-04

Project Name B22y 312

Site Location Fort Edward, NY

Date Started/Finished 2/27/06

Drilling Company HAND - Auger

Driller's Name J. Nickerson

Geologist's Name John Nickerson

Geologist's Signature [Signature]

Rig Type (s) N/A HAND AUGER

Drilling Method (s) HAND AUGER

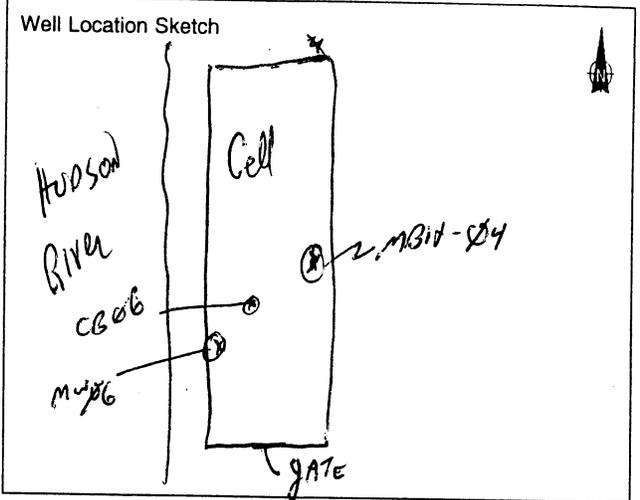
Bit Size (s) — Auger Size (s) 1 1/4"

Auger/Split Spoon Refusal N/A

Total Depth of Borehole Is 9' N/A

Total Depth of Corehole Is 5'

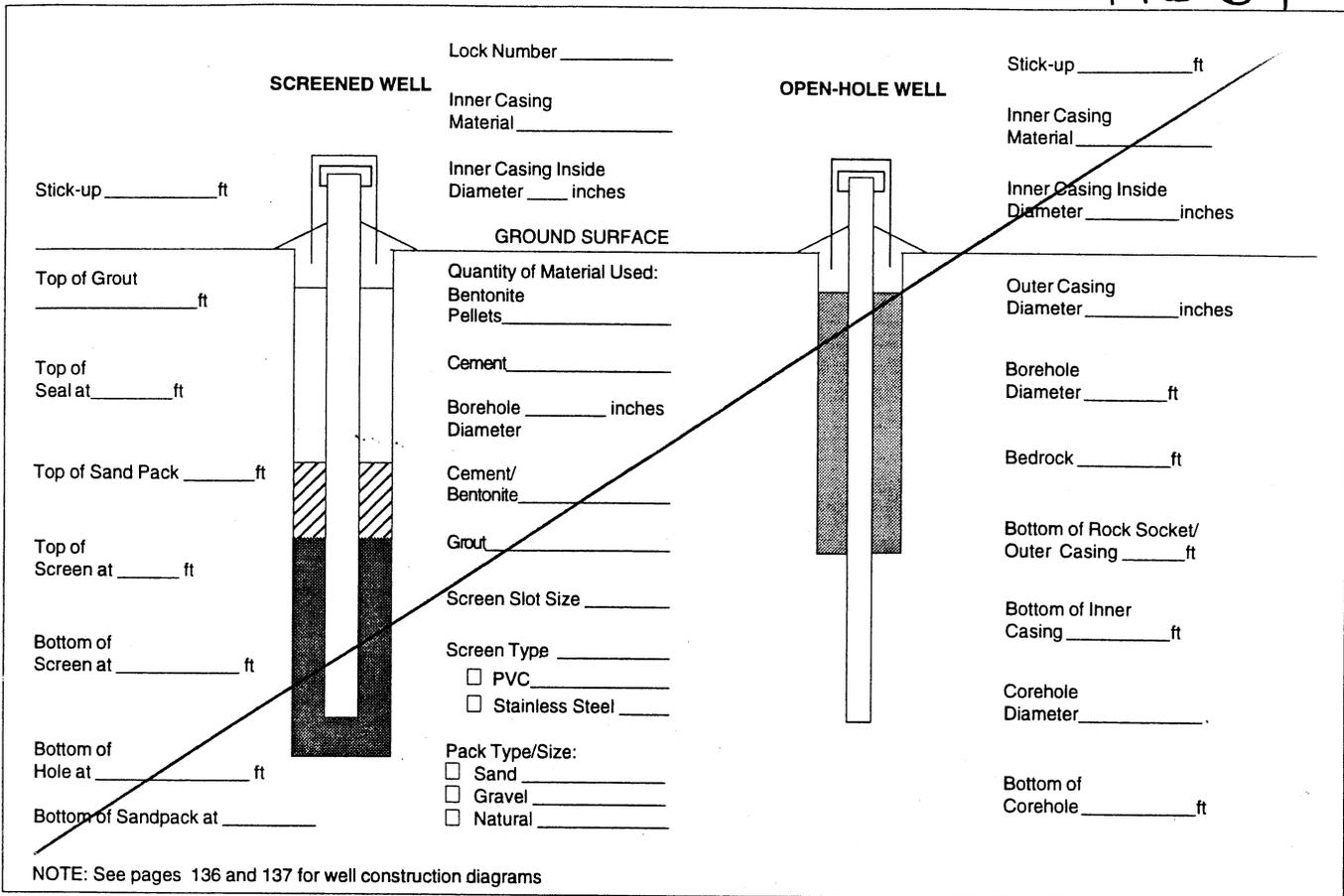
Water Level (TOIC)		
Date	Time	Level (Feet)



Depth (Feet)	Sample Number	Blows on Sampler	Soil Components Rock Profile CL SL S GR	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	Pb HNL/CVA (ppm)	Comments
1	1		cl/s			100%			0	} Sample MB11-04-01 14BS 05-1.5'
2	2					100%			0	
3	3					100%			0	
4									0	} 14:37 Sample MB11-04-02 4.1-4.8'
5			B.S.H.	=5.0'						
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										



MB-04



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0'-6" TAN CLAY SILT. Dmp	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	6'-15" TAN Fg. - m. g SAND. OAP. SANDY CLAY SILT. Dmp	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	1.5-2.5 SAND AS ABOVE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	2.5-3.5 SAND, w/ROOTS THROUGHOUT Dmp - MUSE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	4.7' SAND silt → 4.0', TAN BROWN CLAY SILT. Dmp	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	8.5'	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BOREHOLE NO. MB-04

BOREHOLE NO. MB-04

BOREHOLE NO. MB-04

BOREHOLE NO. MB-04

# Borehole Record for MB-05

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

BOREHOLE NO. MB-05

BOREHOLE NO. MB-05

BOREHOLE NO. MB-05



# DRILLING LOG FOR MB05

Project Name Booy 212

Site Location Ft. Edward, NY

Date Started/Finished 3/1/06

Drilling Company Geologic NY

Driller's Name Dave Lyons

Geologist's Name Rick Watt

Geologist's Signature [Signature]

Rig Type (s) CME45

Drilling Method (s) HSA/Splitspoon

Bit Size (s) N/A Auger Size (s) 4 1/4" ID

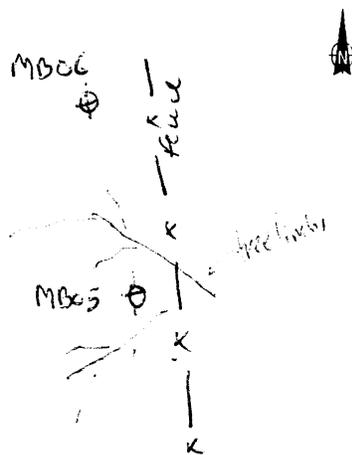
Auger/Split Spoon Refusal N/A

Total Depth of Borehole Is 6'

Total Depth of Corehole Is N/A

Water Level (TOIC)		
Date	Time	Level (Feet)

Well Location Sketch

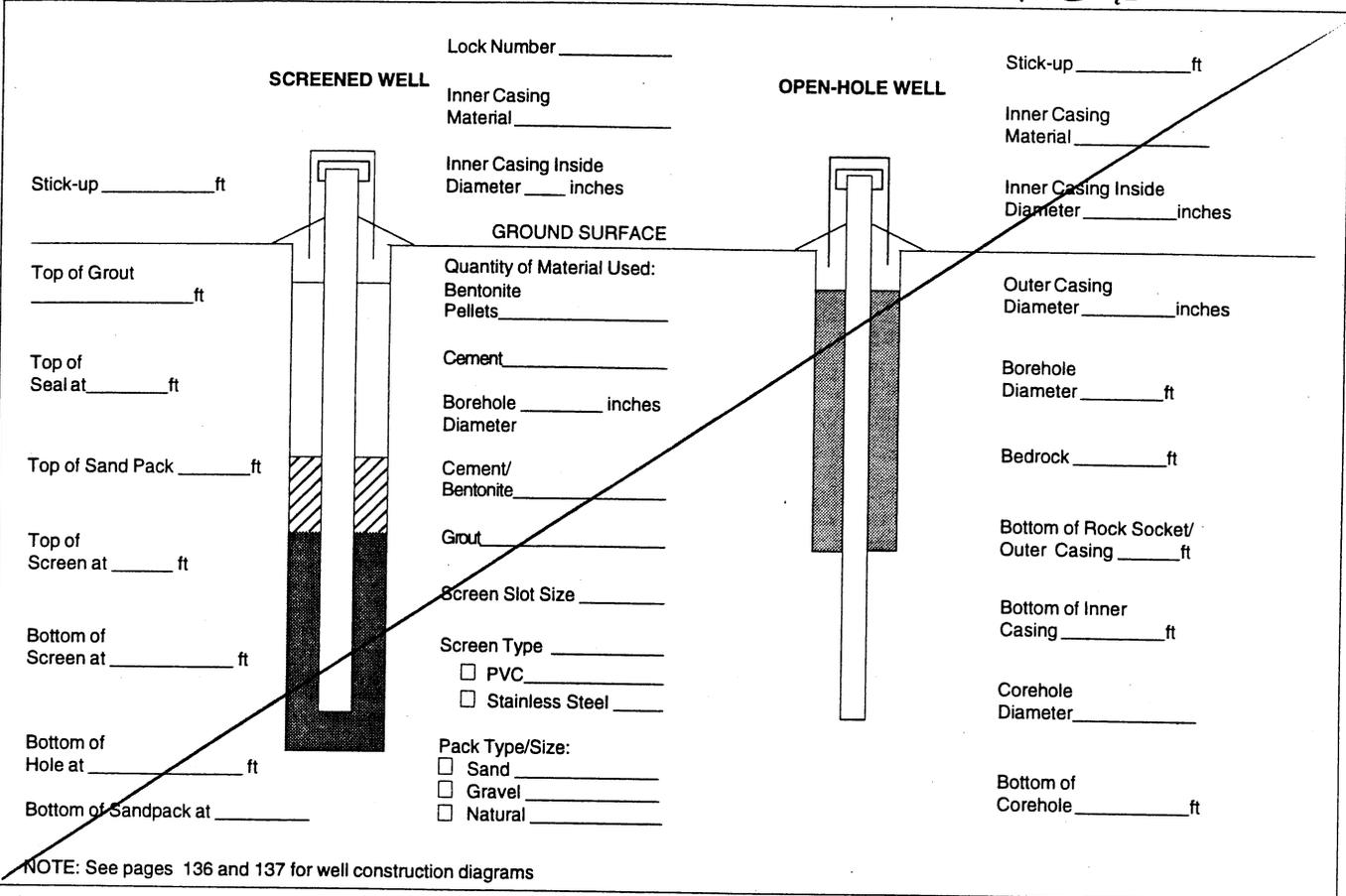


Depth (Feet)	Sample Number	Blows on Sampler		Soil Components Rock Profile CL SL S GR	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	PID HNU/OVA (ppm)	Comments
1	1	6	4				4'			0	
2		4	4								
3	2	4	4				16'			0	Sample MB05 at 1500 2.3-2.4' screen/full RQD
4		3	4								
5	3	3	7				18'			0	Sample 2.4-3.4' 1500 MB05 -02 short screen 1MS & screen RQD
6		4	5								
7											
8											
9											
10											
11											
12											
13											
14											
15											

B.O.H. = 6'

Vertical text on the right edge of the page, possibly a page number or identifier.

MB-05



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0-0.9' Light brown to tan clay (cap material)	○	○	○
2	Wood chunk @ 0.9'	○	○	○
3	0.9-2.3' Medium brown fine-grained sand, moist	○	○	○
4	2.3-2.4' Dark gray sand, possible spoils	○	○	○
5	2.4-4.0' Dark brown silt (native)	○	○	○
6	4-4.6' Dark gray silt/very fine sand, saturated	○	○	○
7	4.6-5.2' Brown silty sand, wet	○	○	○
8	5.2-6.0' Mottled gray/light brown silty clay	○	○	○
9		○	○	○
10		○	○	○
11		○	○	○
12		○	○	○
13		○	○	○
14		○	○	○
15		○	○	○

BOREHOLE NO. MB-05  
BOREHOLE NO. MB-05  
BOREHOLE NO. MB-05

# Borehole Record for MB-06

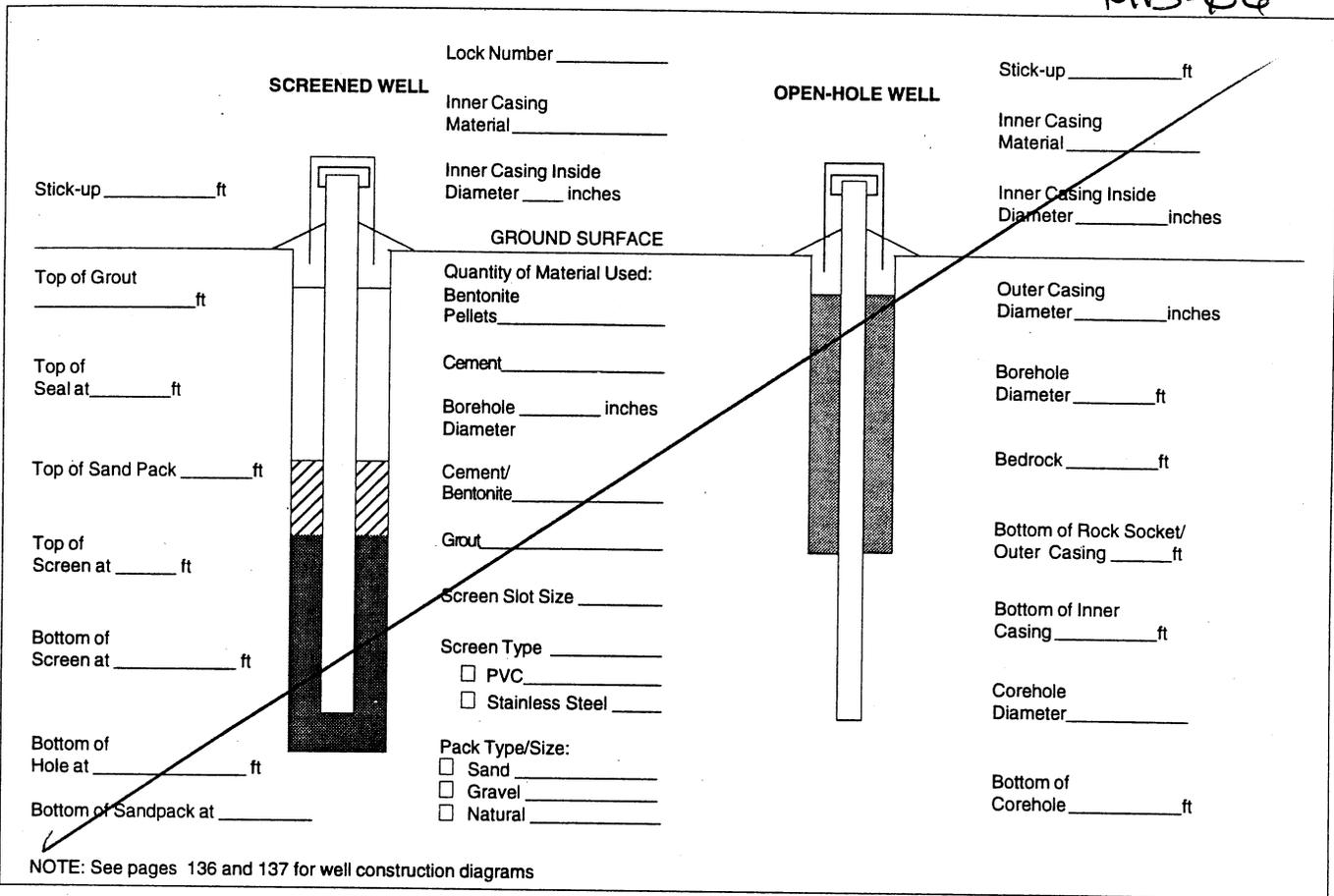
- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

BOREHOLE NO. MB-06

BOREHOLE NO. MB-06



MB-06



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0- <sup>4.7</sup> <del>3.7</del> Light brown/tan clay (cap); moist.	○	○	○
2	<sup>4.7</sup> <del>3.7</del> -7.0' Gray fine grained sand; wood fragments @ top (e base of clay). Sand is wet.	○	○	○
3		○	○	○
4	7.0' → Same sand but coarser grained than above (medium grained); saturated.	○	○	○
5		○	○	○
6	No spoils observed to 8', terminate boring	○	○	○
7		○	○	○
8		○	○	○
9		○	○	○
10		○	○	○
11		○	○	○
12		○	○	○
13		○	○	○
14		○	○	○
15		○	○	○

BOREHOLE NO. MB-06

BOREHOLE NO. MB-06

# Borehole Record for MBH-07

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet



DRILLING LOG FOR 0734

Project Name BUOY 212

Site Location FORT EDWARD, NY

Date Started/Finished 2/23/06

Drilling Company N/A

Driller's Name N/A

Geologist's Name Jan Nickerson

Geologist's Signature [Signature]

Rig Type (s) N/A

Drilling Method (s) Hand Auger

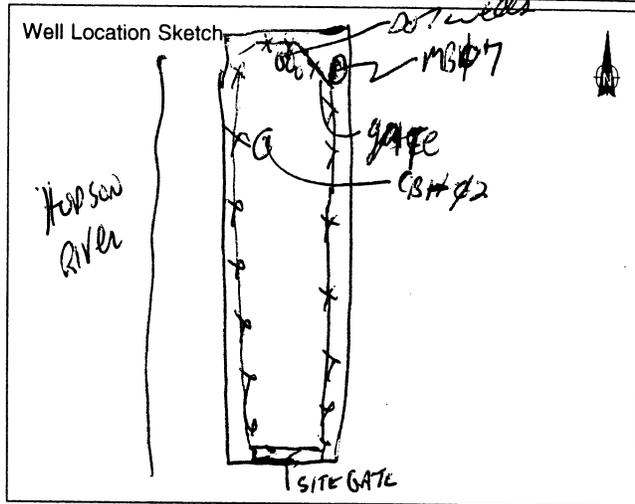
Bit Size (s) N/A Auger Size (s) 1 1/4"

Auger/Split Spoon Refusal N/A

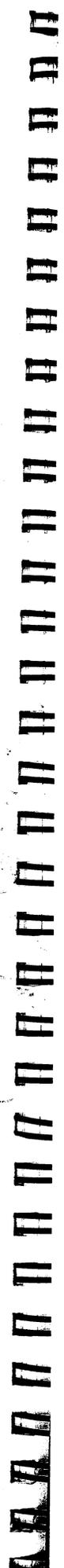
Total Depth of Borehole Is N/A

Total Depth of Corehole Is 5.6'

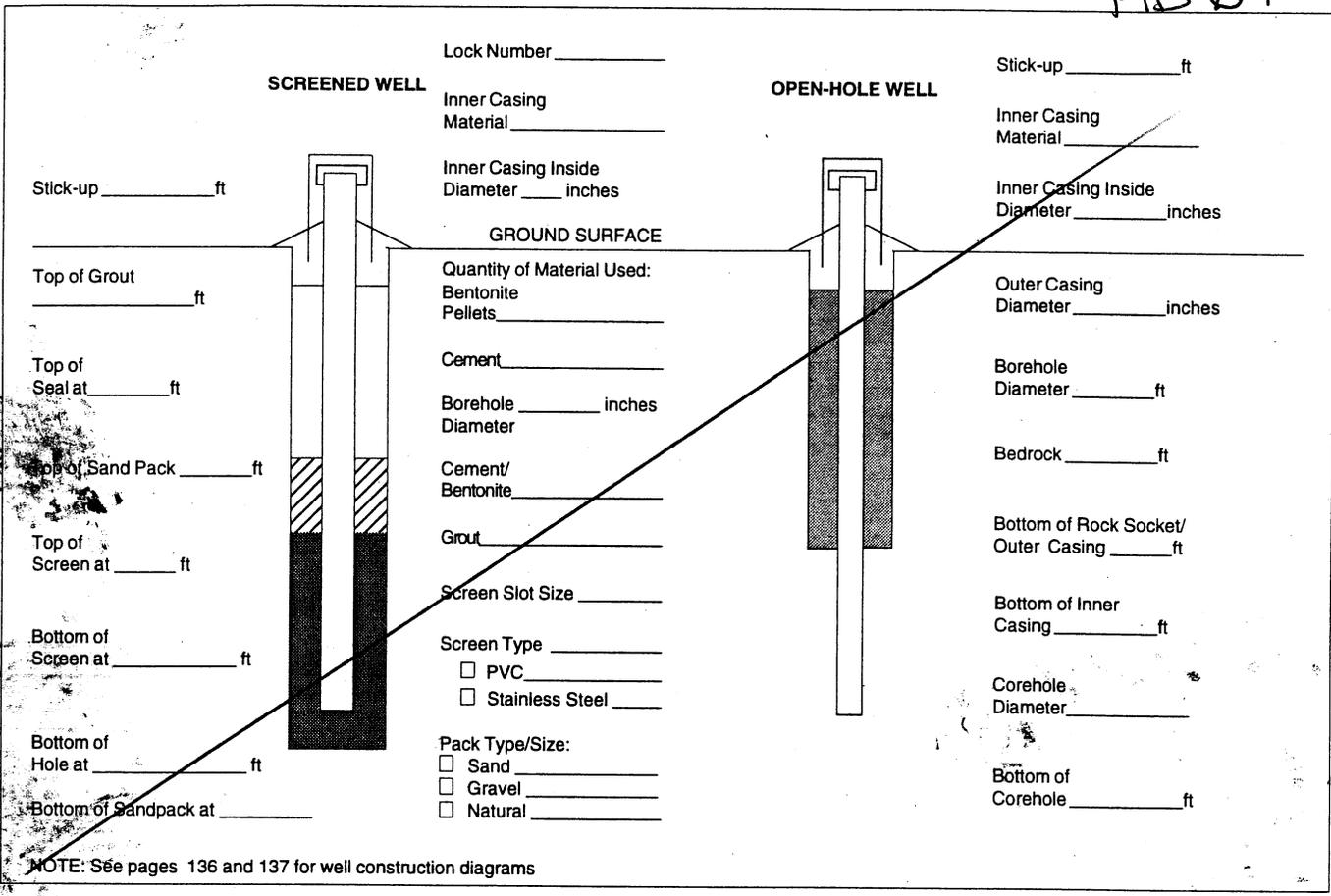
Water Level (TOIC)		
Date	Time	Level (Feet)



Depth (Feet)	Sample Number	Blows 6" Sampler	Soil Components Rock Profile CL SL S GR	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	PD FIND/OVA (ppm)	Comments
1	1		CL			12"			0	
2	2		CL			12"			0	
3	3		SL ↓ S			10"			0	2.7-3.14 Stop DI 11:07 mskmn
4									0	3.7-4.3 11:10 11:09
6										2.04. 5.0'
7										
8										
9										
10										
11										
12										
13										
14										
15										



MB-07



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	mod. Heavy Tight Brown clay, damp. Cohesive; NO INCLUSIONS. 0'-2.2'	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	2.3'-2.7' TIGHT Brown Fg SILTY SAND	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	2.7-3.4 Brown silt damp <u>SAMPLE #1</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	3.4-3.7 TAN E.S. SAND	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	3.7-4.3 TAN F.G. SAND <u>SAMPLE #2</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	4.3-5.4 TAN F.G. SAND	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	5.4-5.6 Fg. SILTY SANDY SILT SATURATED	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
8		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

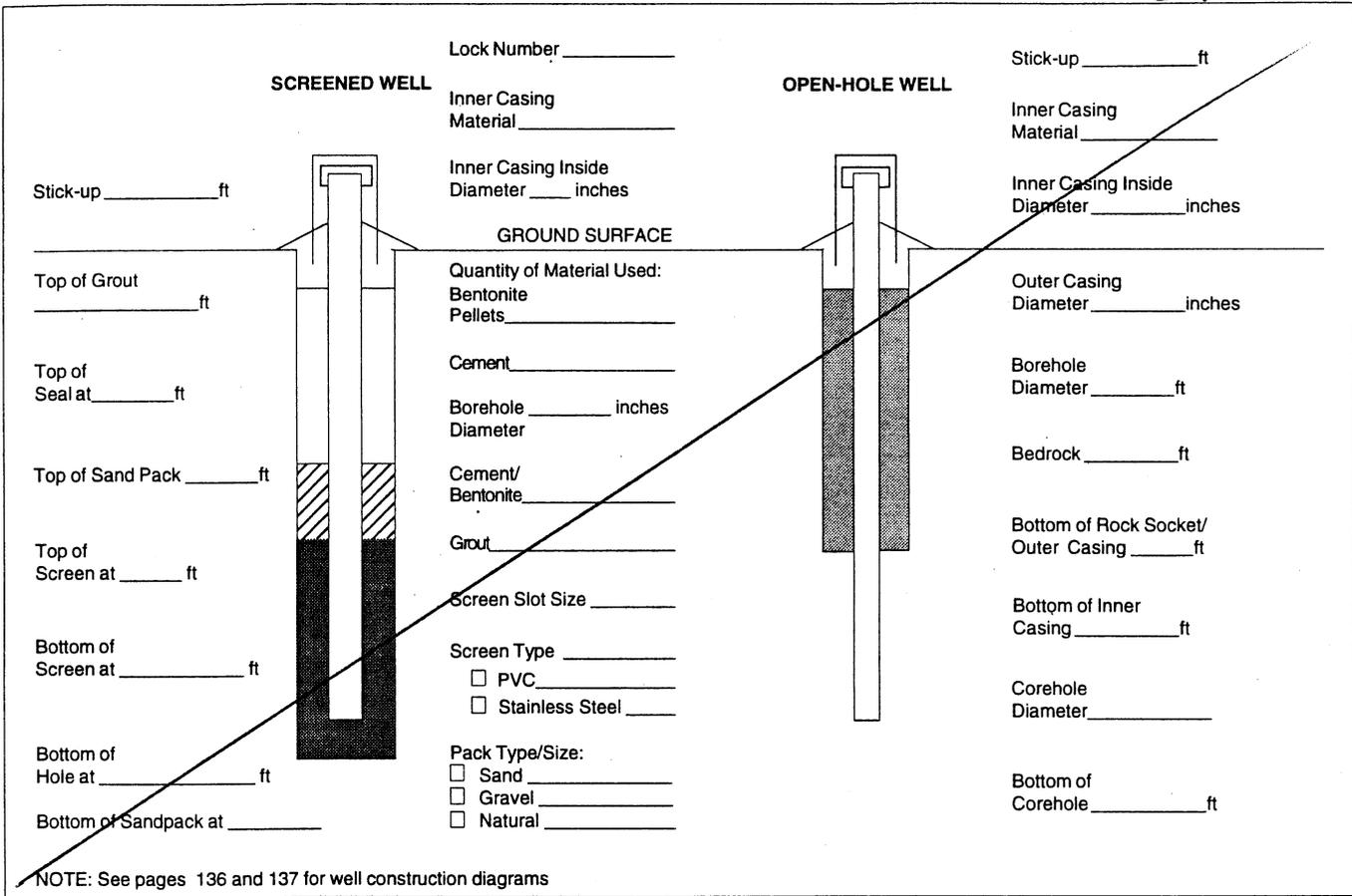
BOREHOLE NO. MB-07

# Borehole Record for MB08

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet



MB08



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0-1.4' Light brown clay (cap); moist.	○	○	○
2	1.4-2.0' Medium brown, fine-grained sand (cap); moist.	○	○	○
3	2.0'-4.5' Black w/ brown mottling, medium grained sand with some silt at 4'	○	○	○
4	4.5-4.7' Dark gray silt	○	○	○
5	4.7-6.0' Med brown silt	○	○	○
6		○	○	○
7		○	○	○
8	MB08A - hand dug hole using soil probe (7/8" core)	○	○	○
9	approx 16' NNW from MB08 ~8' S of fence (inside)	○	○	○
10	Sample to 2.5', all grayish brown silt over fine-grained sand (native).	○	○	○
11		○	○	○
12	Collect sample MB08A-01 1.5-2.0' PCB Screen. 12:30	○	○	○
13		○	○	○
14	MB08B - hand dug hole using soil probe (7/8" core)	○	○	○
15	All native light brown silt and fine-grained sand	○	○	○

no sample for lab.

6' south of fence, 52' from CB01 & 76' from MB08

Borehole Record for CB-01

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

BOREHOLE NO CB-2

BOREHOLE NO CB-3

BOREHOLE NO CB-11

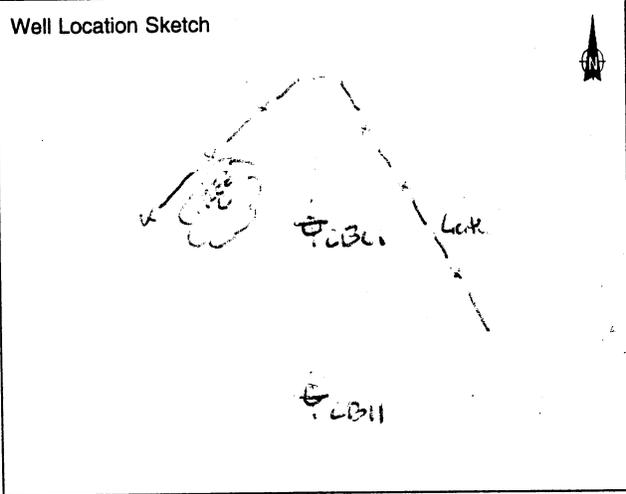
CBD1



DRILLING LOG FOR CBD1

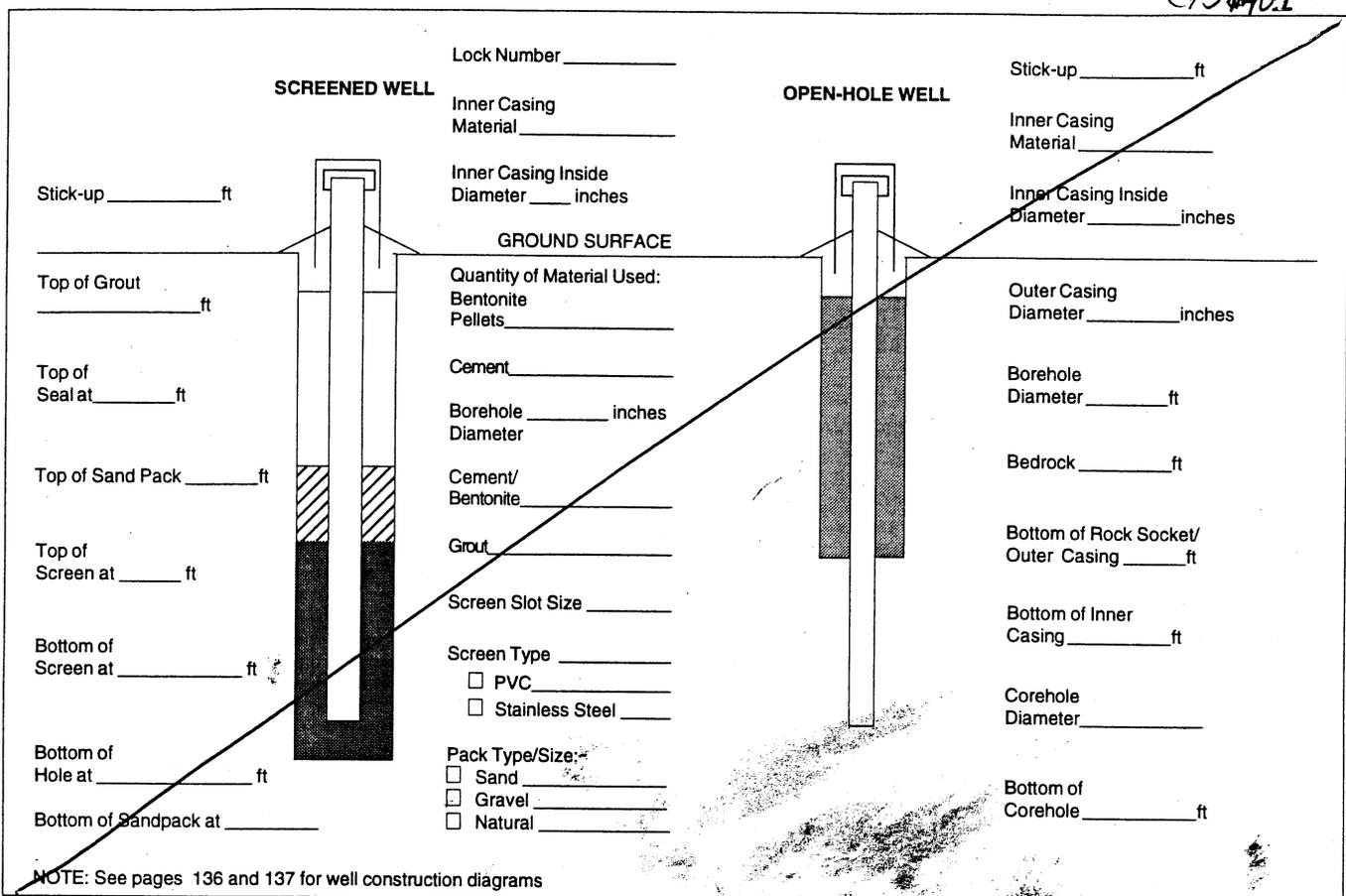
Project Name Bow 212  
 Site Location Ft. Edward, NY  
 Date Started/Finished 3/1/00  
 Drilling Company Geologic NY  
 Driller's Name Dave Lyons  
 Geologist's Name Rick Watt  
 Geologist's Signature RWatt  
 Rig Type (s) CME 45  
 Drilling Method (s) MSA (split spoon)  
 Bit Size (s) N/A Auger Size (s) 4 1/4" ID  
 Auger/Split Spoon Refusal N/A  
 Total Depth of Borehole Is 18'  
 Total Depth of Corehole Is 18'

Water Level (TOIC)		
Date	Time	Level (Feet)



Depth (Feet)	Sample Number	Blows on Sampler		Soil Components Rock Profile CL SL S GR	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	Pb HNI/OVA (ppm)	Comments
1	1	6	5				1.7			0	
2		2	3								
3	2	4	5				0.8			0	Sample CBD1-01 2.5-2.8' Pb screen 10:30
4		6	5								
5	3	3	3				1.4'			0	Sample CBD1-02 screen / Full Pb, TAL Metal + dupe 6-8' 7:45-8:00 10:45
6		2	3								
7	4	1	1				1.5'			0	
8		2	1								
9	5	3	6				1.8'			0	
10		5	7								
11	6	4	5				1.7'			0	
12		5	6								
13	7	2	2				1.6			0	Sample CBD1-03 13.5-14.0' 10:55 screen Pb only
14		2	2								
15	8	1	1				1.9'			0	Sample CBD1-04 14.2-14.4' 11:02 screen Pb only

CBM01



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0-0.2' Topsoil w/ grass	○	○	○
2	0.2-2.4' light brown clay, moist (cap)	○	○	○
3	2.4-3.0' Light brown fine grained sand; moist (cap)	○	○	○
4	3.0-14.0' Spoils Dark gray to black fine grained sand w/ occasional wood chips & shale fragments.	○	○	○
5	Darken color with depth, some coarser sand & some silt w/ depth; moist	○	○	○
6	14.0-16.0' Light gray brown silt w/ trace clay; moist to wet; (native soil).	○	○	○
7	16.0-17.5' Brown fine grained sand (grading from silt above)	○	○	○
8	17.5-18' Brown medium to coarse sand.	○	○	○
9		○	○	○
10		○	○	○
11		○	○	○
12		○	○	○
13		○	○	○
14		○	○	○
15		○	○	○

BORFHOIF NO 0211-1  
BORFHOIF NO 0211-2  
BORFHOIF NO 0211-3



# Borehole Record for CBH-02

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

BOREHOLE NO. CBH-3

BOREHOLE NO. 121-11



DRILLING LOG FOR

05H-02

Project Name D Key 212

Site Location East End Rd, NY

Date Started/Finished 2/23/00

Drilling Company AV Geology, NY

Driller's Name Dave Lyons

Geologist's Name Jim Mersino

Geologist's Signature [Signature]

Rig Type (s) CM6-45

Drilling Method (s) HSA

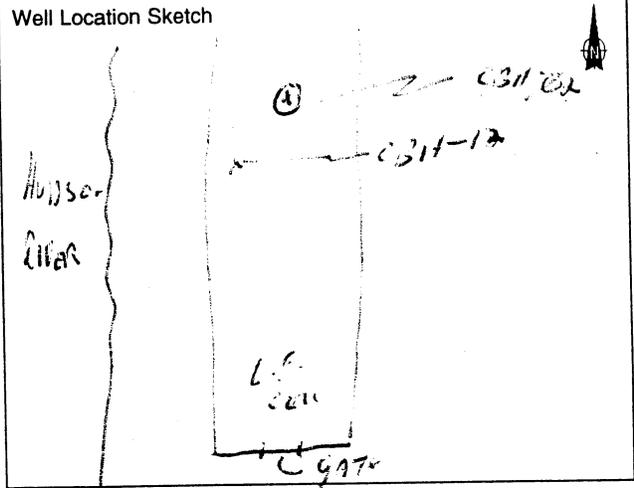
Bit Size (s) N/A Auger Size (s) 4 1/4"

Auger/Split Spoon Refusal N/A

Total Depth of Borehole Is 28' 18"

Total Depth of Corehole Is 20'

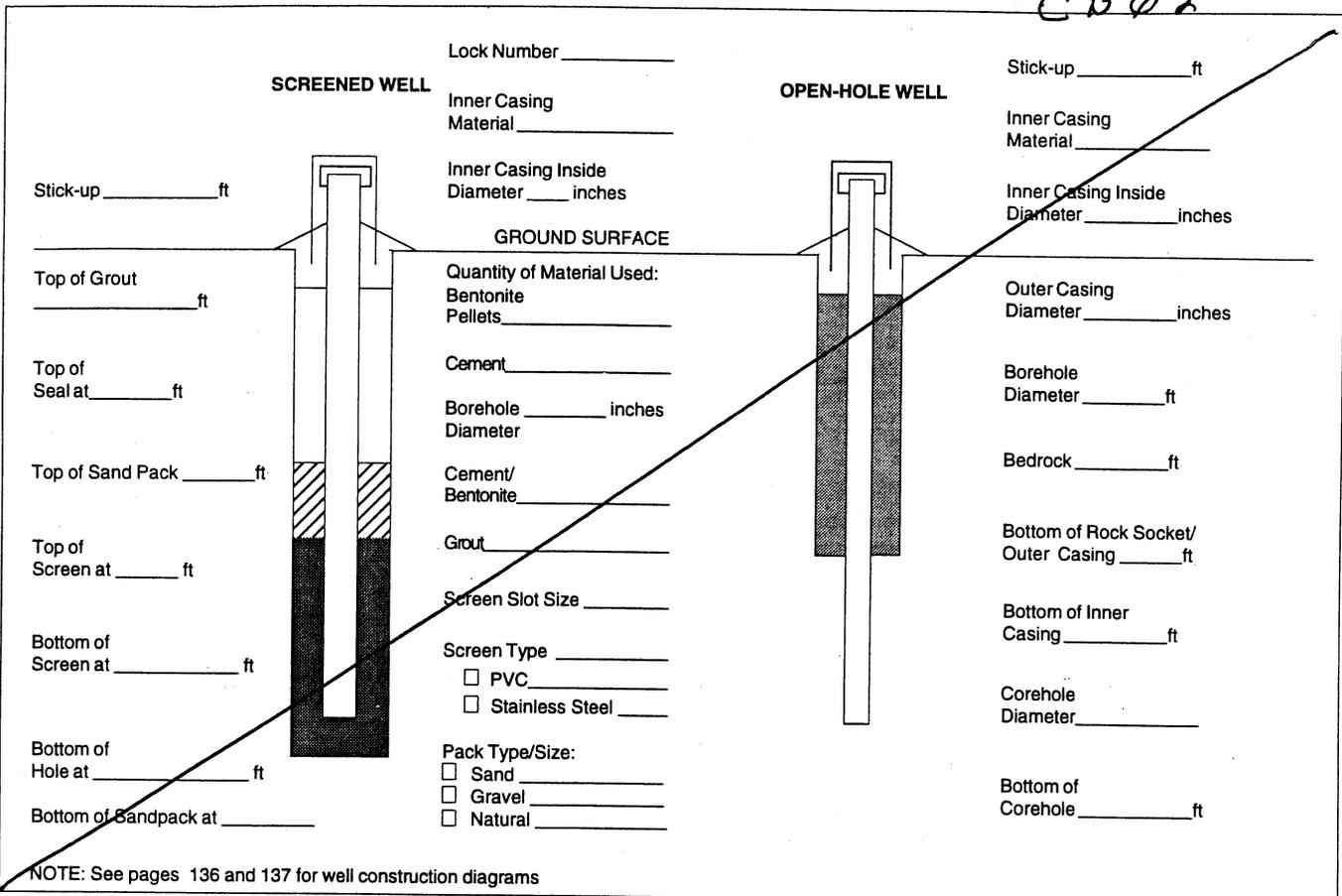
Water Level (TOIC)		
Date	Time	Level (Feet)



Depth (Feet)	Sample Number	Blows on Sampler	Soil Components Rock Profile CL SL S GR	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	P10 HNO3/A (ppm)	Comments
1	1	4 3	CL			1.4			0	
2		3 4								
3	2	4 6				1.6			0	(Sample 2) 15.47 35-3.7
4		6 4	S							
5	3	3 4	SLS			2			0	
6		6 9								
7	4	5 8				2			0	(Sample 3) 7.8 16.03
8		6 6								
9	5	2 3				2			0	
10		3 3								
11	6	2 3				1.8			0	(Sample 3) 11.5-12 16.14
12		3 3								
13	7	2 2				1.4			0.4	
14		3 3								
15		2 1								

Vertical text on the right edge of the page, possibly a page number or reference code.

CB 02



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0-3.5 Tight Brown clay. Damp	○	○	○
2	3.5-4.8 Tan f.g. mg sand; well sorted; Damp	○	○	○
3	4.8-6 Black silty sand (spoils) coarse med;	○	○	○
4	Some wood fragments at 5.5' Damp	○	○	○
5	6-8 continued sim/gravel; 6.1-6.4: silty med black shale	○	○	○
6	fragments (30%) to 5 mm; angular (Sample 2)	○	○	○
7	8-10 increase in quartz sand; some sand/gravel as above	○	○	○
8	10-12 continued sand/gravel; black w/ light quartz.	○	○	○
9	Sample 3: (11.5-12.0)	○	○	○
10	12-14 sim med matrix; pocket of dense silt @ 13.1-13.4.	○	○	○
11		○	○	○
12		○	○	○
13		○	○	○
14		○	○	○
15		○	○	○

BOREHOLE NO. CBH-3  
BOREHOLE NO. CBH-4



CBM-02

Depth(feet)	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
16	15.1-16 EXTENSIVE WOOD CHAR (50%) WITHIN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17	Black silt + sand, Angular Black shale	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18	Flag marts: 10% (All Spoils)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20	Spoils to 18.2', Turn around 7 change 1 Silt Brown	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
21	Completely silt, moist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22	Silt 18.2-30.0	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
24		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
26		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
27		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
28		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
29		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
30		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
31		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
32		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
33		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
34		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
35		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
36		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
37		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
38		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
39		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
40		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
41		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
42		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
43		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
44		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
45		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BOREHOLE NO. CBH-3

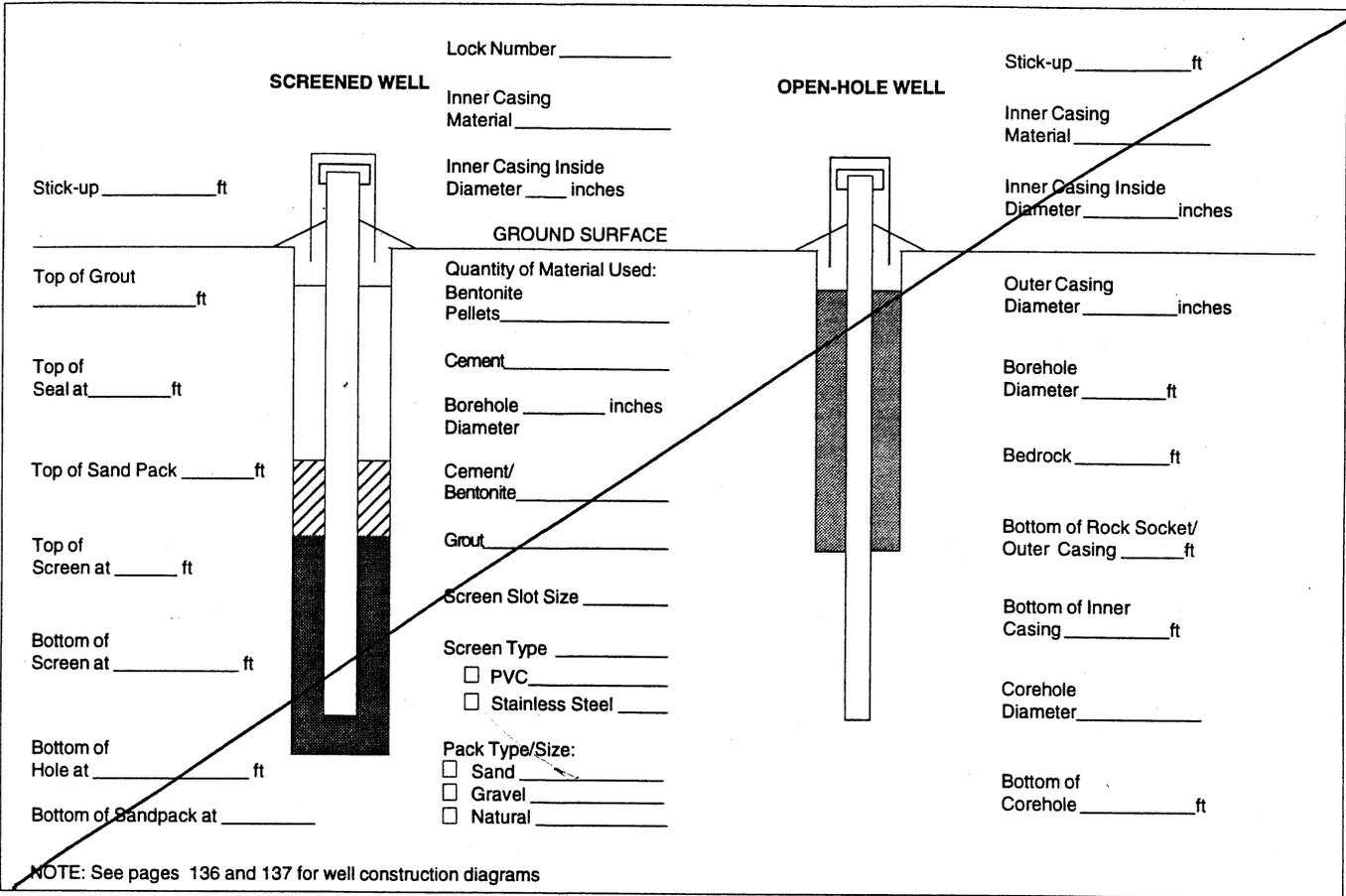
BOREHOLE NO. CBH-4

# Borehole Record for CBH-03

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet



CBH-03



NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0' - 3.5 Tight Brown CLAY (C.A.P.); D.A.M. Vegetation @ 0' - 0.1' (Roots)	○	○	○
2	3.5' - 4' BLACK F.G. SAND; WOOD FRAGMENT 3.7' - 3.8'	○	○	○
3	(Sample #1) Thin Co SPILLS	○	○	○
4		○	○	○
5		○	○	○
6		○	○	○
7	SPILLS	○	○	○
8	↓ CLAYES BROWN SAND w/ F.G. GRAVEL; <sup>FEW</sup> LARGE BEANS SOME FRAGMENTS (1cm); <del>4-5" dia</del> (Sample 2) w/ <sup>FEW</sup> ARE	○	○	○
9	FRAGMENTS present → 3.0	○	○	○
10		○	○	○
11	3.4' - 10' Brown coarse to COMP. silt, LIGHT; Brown CLAYS of coarse gravel to 1cm (Sample 3)	○	○	○
12		○	○	○
13	12' - 14.2' SAND coarse to FINE SAND; WITH coarse silt w/ 10/100	○	○	○
14	14.2' - 15.2' (4) medium sand	○	○	○
15	15.2' abrupt change to BLACK Damp C. SAND. Red Brown (?) Fragments @	○	○	○

BOREHOLE NO. CBH-03



CBH-03

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
16	16-18' wood chips, silt, and sand, black. 1/2" diam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	18'-20': CONTINUES WOOD CHIPS w/ BLACK SILT + SAND	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	20-22' 1/8" S&S, AS ASB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	21.8' → <sup>DRY BRN</sup> Better SILT/SILT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	22-22.2' → <u>S&amp;S</u> F.g. 74W SAND SATURATED	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22	22.2' → 24 COARSE BROWN SAND. (W) @ 22.0'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27	Photo # 3: SS showing EXTENSIVE WOOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28	AT 18'-20'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
44		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
45		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

BOREHOLE NO. CBH-4

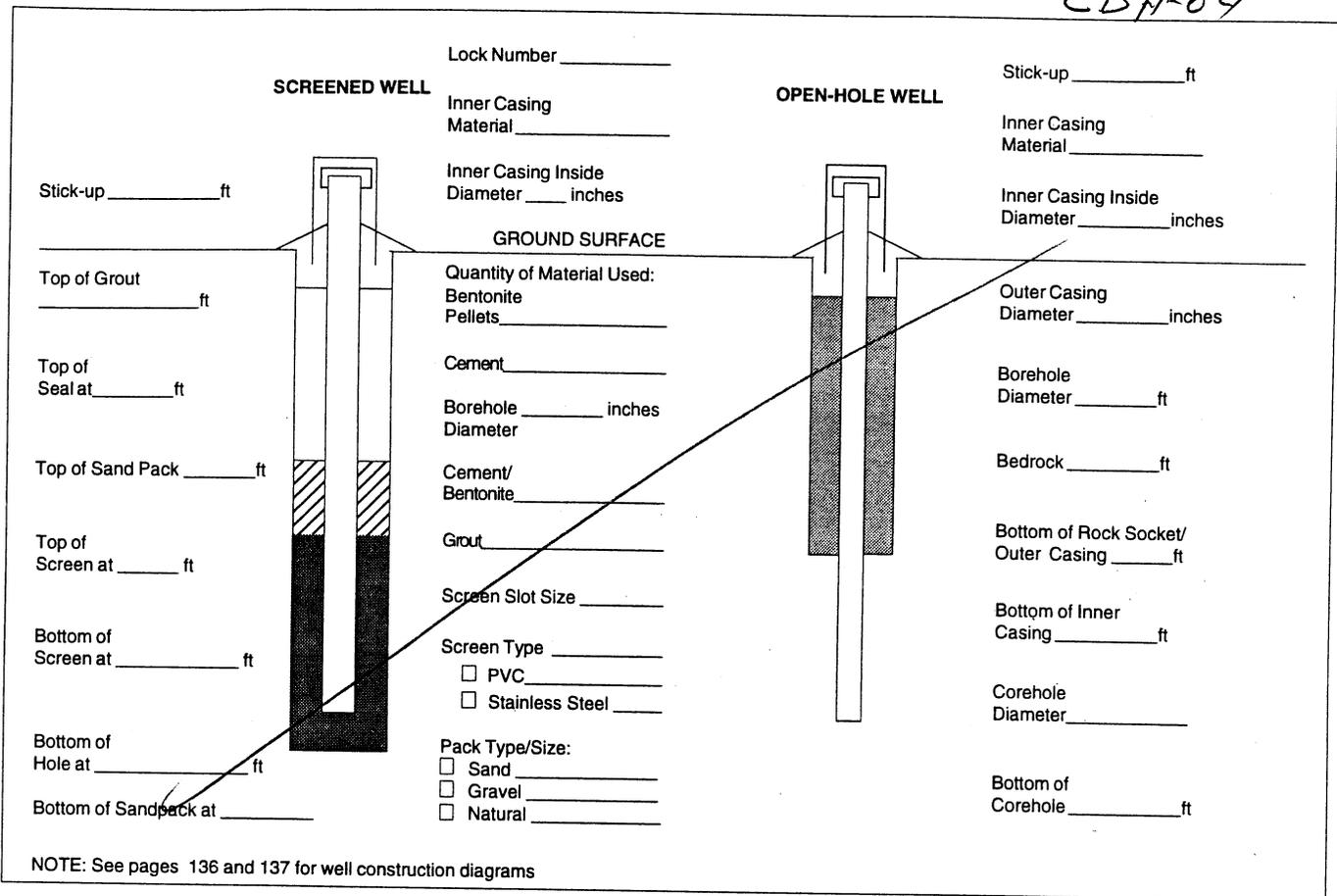
908-799-1549-

# Borehole Record for CB11 4/1

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet



CBH-04



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0'-3" Topsoil. Blue/Brown.	○	○	○
2	1" → 2.7' Brown tight clay; minor gray mottling	○	○	○
3	2.7' → 4.8' Brown loose sand/damp	○	○	○
4	4.8' - 6' Black coarse sand, damp - (soils)	○	○	○
5	6' - 8' coarse black sand (soils) /	○	○	○
6		○	○	○
7		○	○	○
8	8' - 10' same sand, 3' layer large loose chunk (Rm 7) at 9.6'	○	○	○
9		○	○	○
10	10.2' - 11' Blue F. gravel w coarse sand, white	○	○	○
11	(1cm liner @ 11.0) sand grains (clay?) 9th damp	○	○	○
12	11.4' → 14' coarse black sand w caplet: white clay	○	○	○
13	15' → 16' 30% clay	○	○	○
14		○	○	○
15		○	○	○

GEOTECHNICAL INC. REFERENCES

CBH-04

Depth(feet)	Sample Number	Blows on Sampler		Soil Components				Rock Profile	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	HNU/OVA (ppm)	Comments
				CL	SL	S	GR								
16	8	2	3	SL/GC							1.1'				154-1514 4021 40331
17	9	1	2	SL							1.8'				SAME 5 17.5-130
18		2	2												0841
19	10	3	3	SL/GC							2'				
20		3	3												
21				B.O.H = 20'											
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
32															
33															
34															
35															
36															
37															
38															
39															
40															
41															
42															
43															
44															
45															



CBH-04

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
16	14-16' <del>CLAY</del> SANDY SILT (11.2%) (6.1%)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	same (11.2%) BLK SILT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	16-16.4 wood chips w/ silt, thin Abruptly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	changes to black silt w/ chips, thin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	17.1 → 18: Black f.g. sandy silt. moist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	18.0-19.4: Intermediate Black silt + wood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22	19.4 → 200 Tight <sup>DRY</sup> medium city silt. moist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23	Low-moist cohesion,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25	NOTE: PHO of wood chips w/ silt 1.5% 0.830	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
44		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
45		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

GEOTECHNICAL INFO

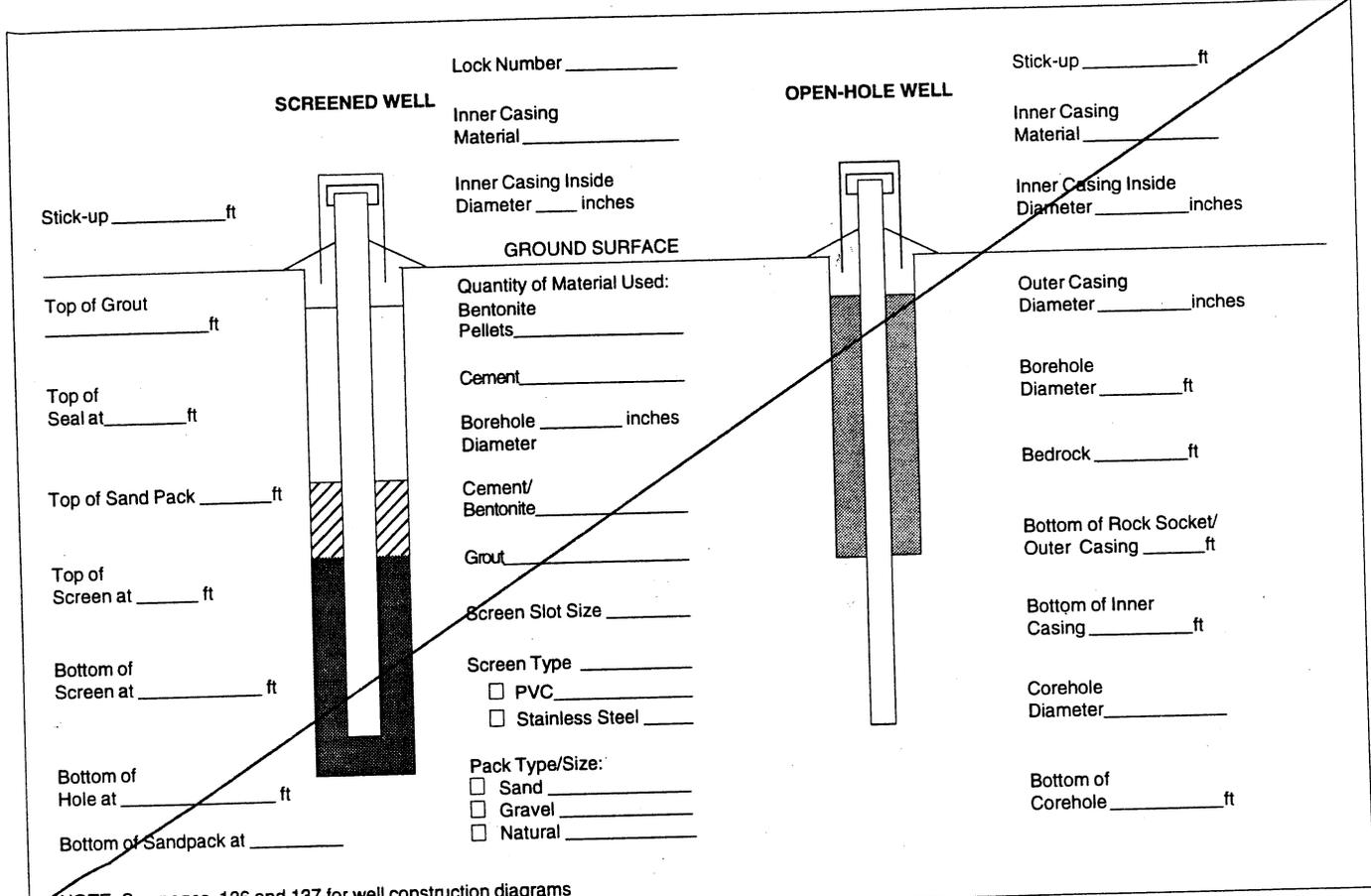
REFERENCES

# Borehole Record for C.BH 05

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet



CBH05



NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0'-3' Tight Blue clay, damp topsoil 0"-2"	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
2	3'-3.6' Same clay.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	3.6' - 5.1' loose TW f.p.-m.p. sand, damp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	5.1' - 8.4' BULKY SAND w/ GRAY CLAY.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	WOOD AT 5.9' - 6.0' CAL FRAGMENTS - 10mm.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	at 7.2'	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	8.4' - 8.9' Dense BLANK SILT; D <sub>50</sub> = 9µm. Top	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	BLANK SILTY SAND w/ WOOD FRAGMENTS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	to 10'	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10	10' - 12' BULKY SILTY SAND, DAMP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11	12' - 14' WOOD CHIPS w/ DENSE BLANK SILT @	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
12	12.8' - 13.2'	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

GEOTECHNICAL INFO.

REFERENCES

CB#05

Depth(feet)	Sample Number	Blows on Sampler		Soil Components				Rock Profile	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	HNU/OVA (ppm)	Comments
				CL	SL	S	GR								
16	3	2	1	SS/sl						1.5'			0	SMYR4	
17	9	1	1	sl						2.0				1001-S1074 C49	
18		1	1												
19				B, C, H. = 18.0'											
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
32															
33															
34															
35															
36															
37															
38															
39															
40															
41															
42															
43															
44															
45															

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

CB405

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
16	14' → 15.4 WOOD CHIPS, some 6 inch size	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17	15.4 → 16 BLKY CLAY SILT; some wood	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
18	mostly silt.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
19	16-16.4 sample 105. BLKY F.G. SILT mostly wood	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
20	16.4-16.8 105. 16-18.0 (16.4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
24		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
26		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
27		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
28		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
29		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
30		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
31		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
32		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
33		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
34		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
35		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
36		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
37		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
38		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
39		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
40		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
41		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
42		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
43		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
44		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
45		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

GEOTECHNICAL INFO.

REFERENCES

# Borehole Record for CBH-6

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

BOREHOLE NO. CBH-7

BOREHOLE NO. CBH-8



# DRILLING LOG FOR CBH-6

Project Name B212

Site Location Ft Edward

Date Started/Finished 2/21/06

Drilling Company Northstar

Driller's Name Dave Lyons

Geologist's Name Stephanie Reynolds Smith

Geologist's Signature *[Signature]*

Rig Type (s) CME 45B

Drilling Method (s) ASA

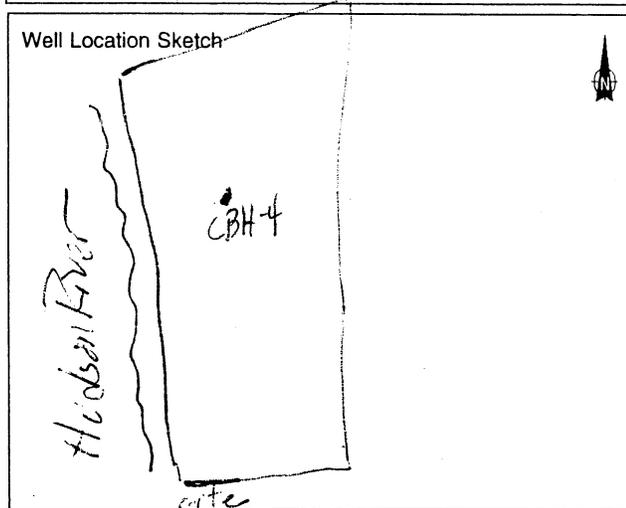
Bit Size (s) \_\_\_\_\_ Auger Size (s) 4 1/4"

Auger/Split Spoon Refusal NA

Total Depth of Borehole Is 22' bgs

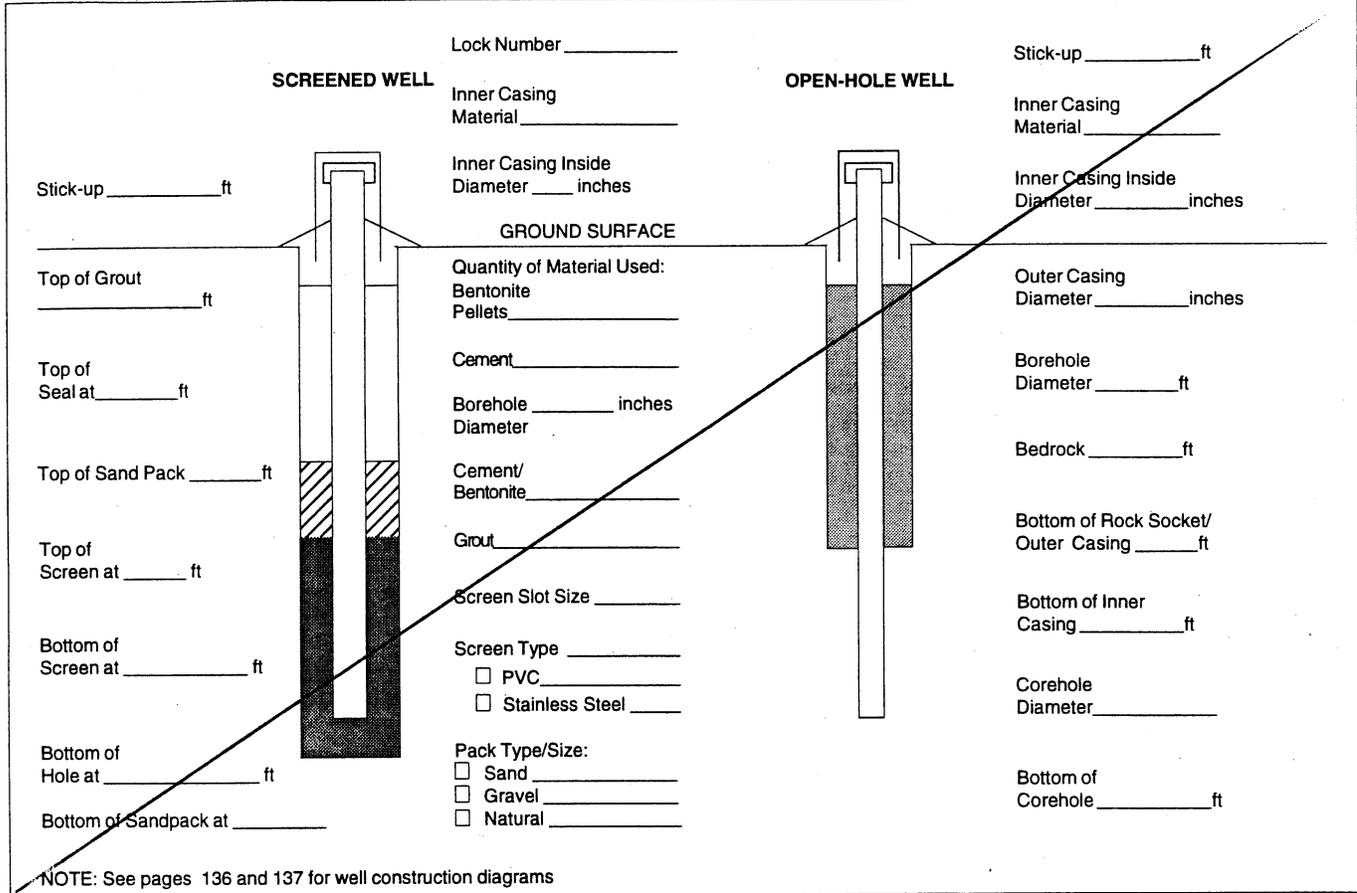
Total Depth of Corehole Is NA

Water Level (TOIC)		
Date	Time	Level (Feet)



Depth (Feet)	Sample Number	Blows on Sampler	Soil Components Rock Profile CL SL S GR	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	Pip H <sub>2</sub> O OVA (ppm)	Comments
1		4 3	CL	1528	1	0.8			0	Sample 0.6-0.8 (1528) PCB & resin B212-CB-06-01
2		3 3								
3		3 8	CL spoils	1529	2	1.7			0	
4		9 9								
5		3 4	spoils	1537	3	1.2			0.4	1545 sample 4-5.2 (PCB & resin) ACL PCBs & TLL PCBs +dup
6		4 4								
7		3 2		1550	4	1.2			0.6	B212-CB-06-02
8		2 3								
9		2 2		1600	5	0.9			0	
10		2 3								
11		2 2		1605	6	1.2			0	1607 sample 10.5-10.7 PCB & resin B212-CB-06-03
12		3 3								
13		3 5		1614	7	1.9			C	
14		5 5								
15		2 3		1618	8	1.3			0.2	

CBH06

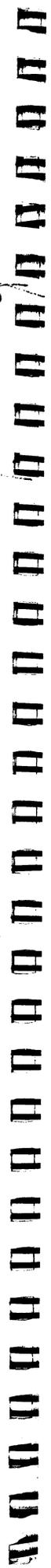


Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0-0.8 Brown tight clay, dry, organic rich 0-0.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	2-2.5 Brown clay tight, dry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	2.5-3.3 Brown fine sand/silt, dry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	3.3-3.7 Black fine sand, wood (spoils) dry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	4-5.2 Spoils - black to dark brown fine sand/silt, dry, some wood	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	6-7.2 Dark brown to black to dark gray fine sand/silt large (full diameter of split spoon) wood chunks, dry-moist (spoils)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11	8-9 Gray fine sand dry-moist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12	10-11.2 Gray grading to light gray fine sand dry-moist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13	12-14 Black to dark gray fine sand + silt, wood (spoils), dry-moist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15	14-15.3 sand as above	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BOREHOLE NO. CBH-7  
17-11-8

CBH-06

Depth(feet)	Sample Number	Blows on Sampler		Soil Components				Rock Profile	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	HNU/OVA (ppm)	Comments
				CL	SL	S	GR								
16		3	3												
17		2	2					1627	9	13			0		
18		3	3												
19		1	3					1631	10	17			0	1640 Sample @ 19.4-19.5 B42-CB-06-04 FLB Screen.	
20		3	2												
21		WH	1					1645	11	2				1646 Sample 20-20.2 FLB Screen MS/MS/D B212-CB-06-05	
22		1	1												
23								B.O.H. = 22.0'							
24															
25															
26															
27															
28															
29															
30															
31															
32															
33															
34															
35															
36															
37															
38															
39															
40															
41															
42															
43															
44															
45															



CBH-06

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
16	16-17.3 Dark brown-black fine sand/silt, dry-moist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17	(Spills)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18	18.0-18.3 Black fine sand/silt (spills) dry-moist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19	18.3-19.2 Brown silty clay, dry-moist (natural)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20	19.2-19.7 Brownish fine sand-silt, dry-moist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21	20-22 Greenish gray fine silty sand, wet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
24		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
26		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
27		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
28		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
29		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
30		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
31		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
32		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
33		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
34		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
35		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
36		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
37		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
38		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
39		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
40		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
41		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
42		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
43		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
44		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
45		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BOREHOLE NO. CBH-7  
BOREHOLE NO. 17H-8

# Borehole Record for CBH-7

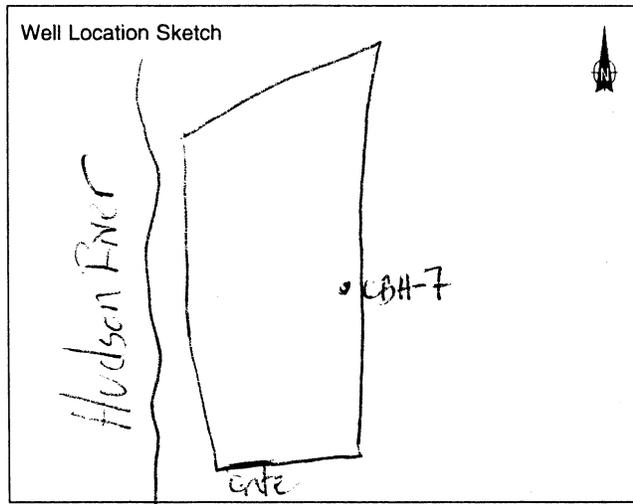
- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet



DRILLING LOG FOR CBH-7

Project Name July 212  
 Site Location H Edward, NY  
 Date Started/Finished 2/24/06  
 Drilling Company North Star  
 Driller's Name D. Lyons  
 Geologist's Name S. Reynolds Smith  
 Geologist's Signature [Signature]  
 Rig Type (s) LM 945B  
 Drilling Method (s) HSA  
 Bit Size (s) N/A Auger Size (s) 4 1/4"  
 Auger/Split Spoon Refusal NA  
 Total Depth of Borehole Is 14'  
 Total Depth of Corehole Is NA

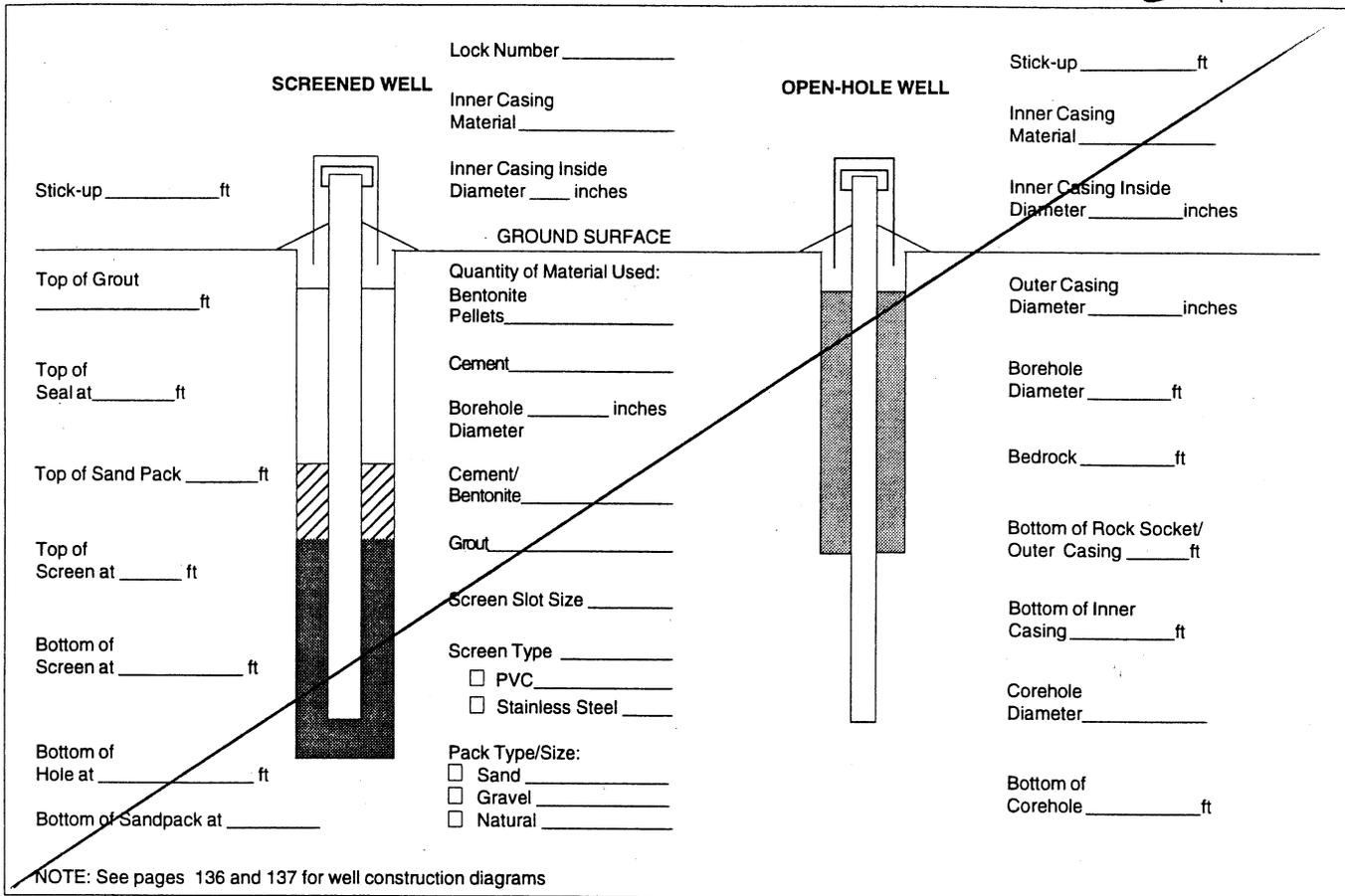
Water Level (TOIC)		
Date	Time	Level (Feet)



Depth (Feet)	Sample Number	Blows on Sampler		Soil Components Rock Profile CL SL S GR	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	Pip H <sub>2</sub> O OVA (ppm)	Comments
1		4	3	CL	1300	1	1.5'	-	-	0	B212-CB-07-01 B212 Sample 1.3-1.5 P.B. Screen
		3	3								
2		3	4	CL S	1302	2	1.3	-	-	0	
3		5	5								
4		3	4	spalls	1304	3	1	-	-	0	B212-CB-07-02 1300 Sample 4.2-5 P.B. Screen, TCL P.B.
5		5	5								
6		3	4	spalls	1308	4	1.3	-	-	0.1	
7		3	4								
8		1	2	spalls	1314	5	0.8	-	-	0	B217-CB-07-03 1315 Sample 5.2-5.5 P.B. Screen
9		2	2								
10		2	1	spalls SL	1317	6	1.5	-	-	0	B213-CB-07-04 1326 Sample 11.2-11.5 P.B. Screen
11		2	1								
12		WR	WR	SL	1324	7	1.2	-	-	0	B212-CB-07-05 1325 Sample 12.4-12.6 P.B. Screen
13		2	3								
14											
15											B.O.G. = 14.0'



CBH07



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0-1.5 Brown tight clay, dry-moist	○	○	○
2	2-2.7 Clay as above, moist	○	○	○
3	2.7-3.3 Yellowish brown fine sand/silt	○	○	○
4	4-5 Dark gray - black fine sand/silt, wood, dry (spots)	○	○	○
5	6-8 sand/silt, as above	○	○	○
6	8-8.8 Black F-M sand, some white fine sand, trace shale + some wood	○	○	○
7		○	○	○
8	10-11 Black-dark gray fine sand/silt, dry, trace shale	○	○	○
9	11-11.5 Greenish brown fine sandy silt w/ trace black stringy roots, dry-moist	○	○	○
10		○	○	○
11	12-14 Greenish brown fine sandy silt, moist	○	○	○
12		○	○	○
13		○	○	○
14		○	○	○
15		○	○	○

BOREHOLE NO. CBH-8

# Borehole Record for CBH-08

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

BOREHOLE NO. CBH-9

BOREHOLE NO. CBH-10

BOREHOLE NO. CBH-11

BOREHOLE NO. CBH-12

BOREHOLE NO. CBH-13

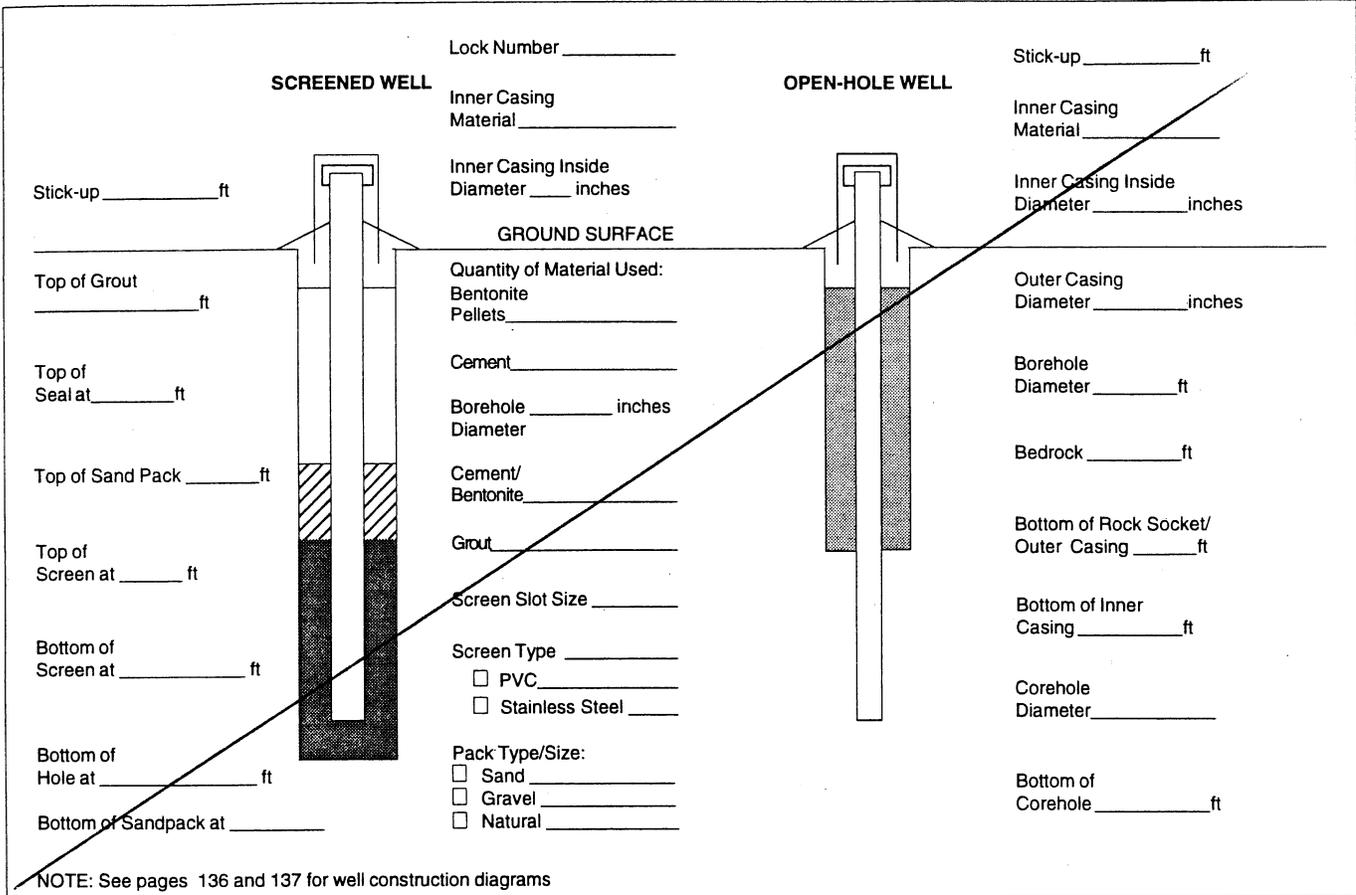
BOREHOLE NO. CBH-14

BOREHOLE NO. CBH-15

BOREHOLE NO. CBH-16



CBH08



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0-0.7 <sup>11</sup> <del>0-0.7</del> Brown light clay, dry-moist thin (~2mm) large ref yellowish brown fine sand at 0.7	○	○	○
2	2-3.1 Brown light clay occasional yellowish mottling	○	○	○
3	3.1-3.5 Black fine sand/silt, dry (spills)	○	○	○
4	4-6 Black to dark gray fine sand/silt, wood, dry (spills)	○	○	○
5	6-7.4 Black to black gray fine sand/silt, some wood, dry (spills)	○	○	○
6	8-8.7 Black to black gray fine sand/silt, wood, dry (spills)	○	○	○
7	10-10.9 Black fine sand/silt dry some wood (spills)	○	○	○
8	12-13.5 <sup>8.2</sup> Black fine sand/silt with mostly wood, dry (spills)	○	○	○
9	13.2-13.5 Dark gray to black fine sand/silt, little wood, dry (spills)	○	○	○
10	14-14.4 sand, organic (spills)	○	○	○
11	14.4-15.2 Greenish brown fine sand & silt, dry	○	○	○
12		○	○	○
13		○	○	○
14		○	○	○
15		○	○	○

BOREHOLE NO. CBH-9

BOREHOLE NO. CBH-10

BOREHOLE NO. CBH-11

BOREHOLE NO. CBH-12

BOREHOLE NO. CBH-13

CBH-06

Depth(feet)	Sample Number	Blows on Sampler		Soil Components				Rock Profile	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	HNU/OVA (ppm)	Comments
				CL	SL	S	GR								
16		8	6												
17		7	1			S		1612	9	1.7					oil sample 143-16.5 B412-CB-05-65 PCB5077
18		11													
19								B.O.H. = 15'							
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
32															
33															
34															
35															
36															
37															
38															
39															
40															
41															
42															
43															
44															
45															



CBH-08

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
16	16-18 Sandy silt on above, moist to wet at 17.3 <del>wet at 17.3</del>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
24		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
26		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
27		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
28		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
29		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
30		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
31		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
32		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
33		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
34		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
35		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
36		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
37		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
38		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
39		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
40		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
41		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
42		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
43		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
44		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
45		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BOREHOLE NO. CBH-9  
BOREHOLE NO. CBH-10  
BOREHOLE NO. CBH-11  
BOREHOLE NO. CBH-12  
BOREHOLE NO. CBH-13

# Borehole Record for CBH-09

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

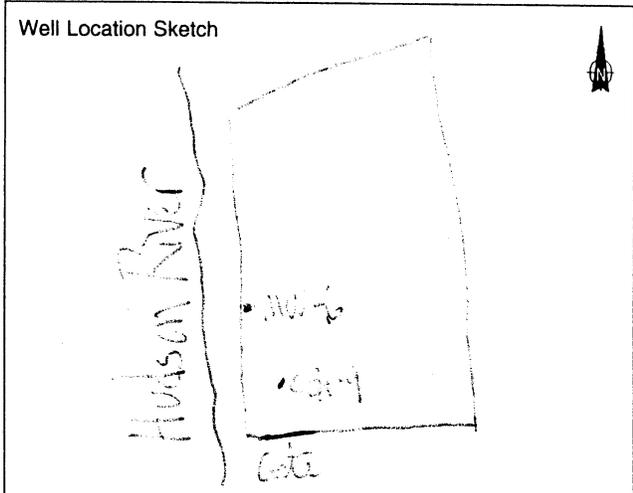
BORHOLE NO. CBH-10  
BORHOLE NO. CBH-11  
BORHOLE NO. CBH-12  
BORHOLE NO. CBH-13



# DRILLING LOG FOR CB4-07

Project Name B212  
 Site Location Ft Edward, NY  
 Date Started/Finished 2/24/06  
 Drilling Company Norstar  
 Driller's Name D Lyons  
 Geologist's Name S Reynolds Smith  
 Geologist's Signature [Signature]  
 Rig Type (s) ME 43B  
 Drilling Method (s) ISA  
 Bit Size (s) N/A Auger Size (s) 3/4"  
 Auger/Split Spoon Refusal NA  
 Total Depth of Borehole Is 14' bgs  
 Total Depth of Corehole Is NA

Water Level (TOIC)		
Date	Time	Level (Feet)

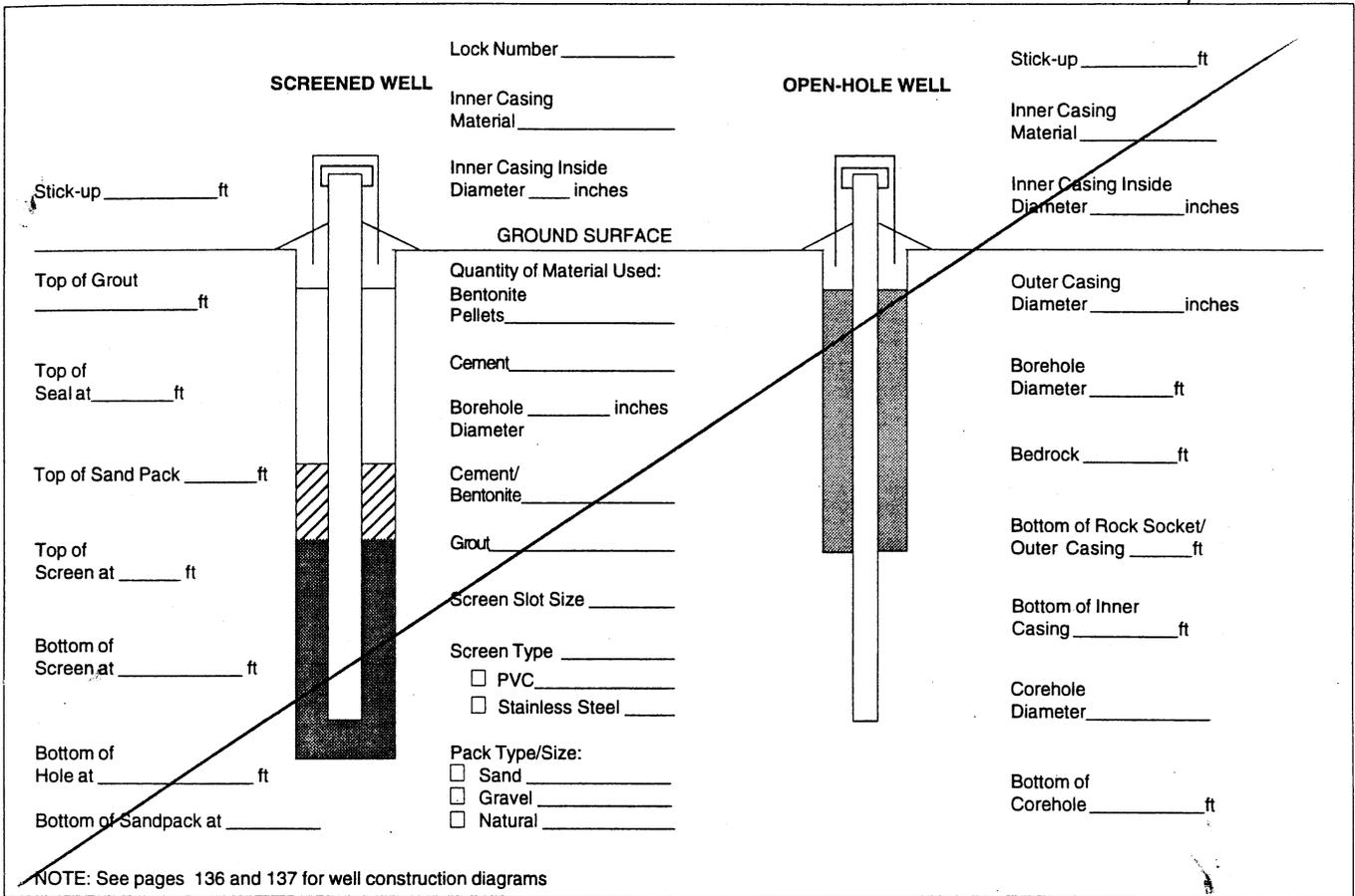


Depth (Feet)	Sample Number	Blows on Sampler	Soil Components Rock Profile CL SL S GR	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	Pb Antimony (ppm)	Comments
1		5 4	C	0751	1	1.5			0	0753 Sample 1-1.4 B212-CB-01-01 Pb Screen 7CL PCBs
2		4 5	S							
3		4 4	S							
4		6 5	spoils	0755	2	1.0			0	
5		2 4								
6		4 4	spoils	0807	3	1.2			01	CSIS Sample 4.6-4.9 Pb Screen B212-CB-01-02
7		3 3	spoils							
8		2 3	spoils	0814	4	1.4			0.5	CSIS Sample 1-7.0 Pb Screen B212-CB-01-03
9		1 3								
10		4 4	spoils	0822	5	1			0.5	
11		3 3	S							
12		5 4	S	0838	6	1.3			0	CSIS Sample 11-11.3 B212-CB-07-04 Pb Screen
13		1 1	S							
14		1 1	S	0837	7	1			0	CSIS Sample 12.3-12.5 Pb Screen
15										B212-CB-09-05

B.O.H. = 14'



CBH-09



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0-1.5 Brown Clay tight, dry-moist	○	○	○
2	1.5-2.7 Clay <del>with</del>	○	○	○
3	2.7-3.3 yellowish/brown fine sand/silt dry-moist	○	○	○
4	3.3-3.6 Black fine sand/silt, dry (spiky)	○	○	○
5	4-6 Dark gray to black fine sand, dry	○	○	○
6	6-8 Black fine sand/silt with a layer of gray to black gray	○	○	○
7	silt at 6. 7-6.9, some weed, dry	○	○	○
8	8-9 Black fine sand/silt trace weed dry	○	○	○
9	10-10.8 Black fine sand/silt 'little weed', dry	○	○	○
10	10.8-11.3 Greenish brown fine sandy silt, dry	○	○	○
11	12-13 Greenish brown fine sandy silt, dry-moist	○	○	○
12		○	○	○
13		○	○	○
14		○	○	○
15		○	○	○

BOREHOLE NO. CBH-10

BOREHOLE NO. CBH-11

BOREHOLE NO. CBH-12

BOREHOLE NO. 1 D10X

# Borehole Record for CBH-10

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

BOREHOLE NO. CBH-11  
BOREHOLE NO. CBH-12  
BOREHOLE NO. D/DX



# DRILLING LOG FOR CBH-10

Project Name Buoy 212

Site Location Edward, NY

Date Started/Finished 2/23/06

Drilling Company Northern Star

Driller's Name Dave Lyons

Geologist's Name Stephanie Reynolds Smith

Geologist's Signature [Signature]

Rig Type (s) CM 45B

Drilling Method (s) HSA

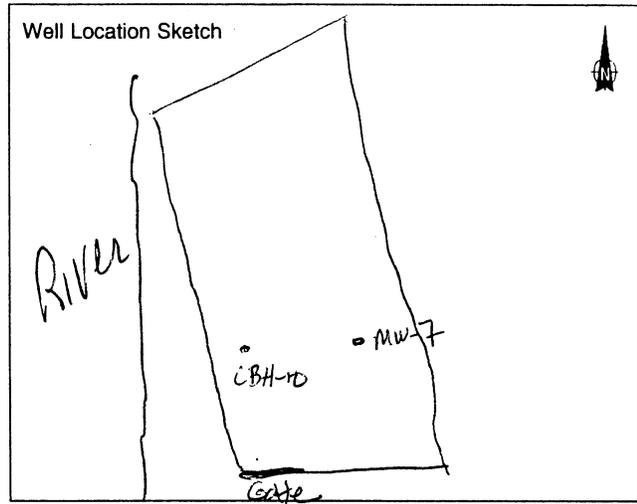
Bit Size (s) N/A Auger Size (s) 4 1/4"

Auger/Split Spoon Refusal N/A

Total Depth of Borehole Is 14' logs

Total Depth of Corehole Is N/A

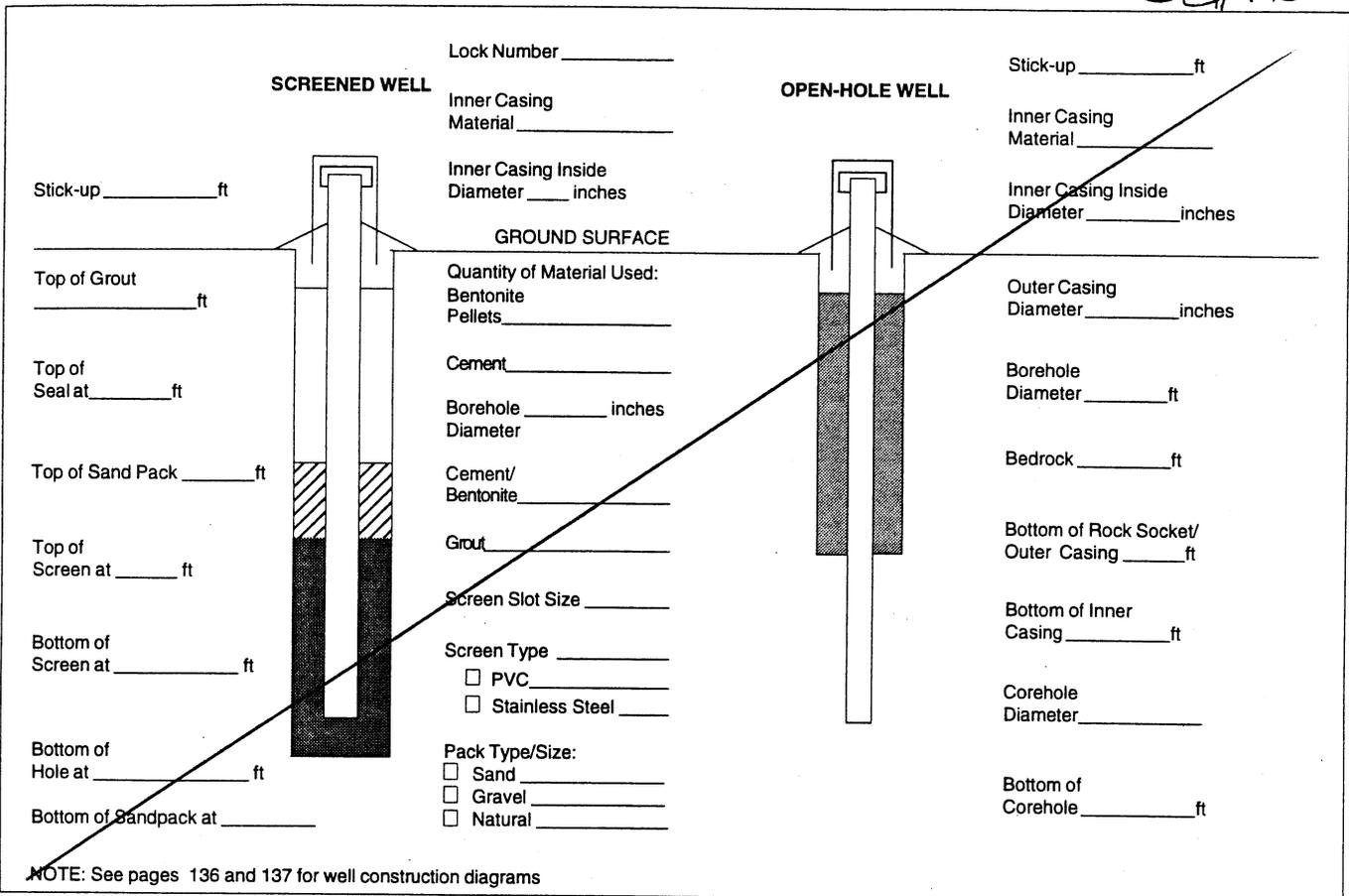
Water Level (TOIC)		
Date	Time	Level (Feet)



Depth (Feet)	Sample Number	Blows on Sampler	Soil Components Rock Profile CL SL S GR	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	P10 Mn/NOVA (ppm)	Comments
1		4 3	CL	1629	1	1.3			0	
2		2 2								
3		3 6	CL	1632	2	1.6			0	1635 Sample 2.6-2.8 B212-CB-10-01 RBS Screen
4		4 5	spills							
5		3 3	spills	1640	3	1.1			0	1642 Sample 4.1-5.1 B212-CB-10-02 RBS Screen & TLL RBS
6		5 5								
7		3 3	spills	1648	4	1.3			0	
8		2 2								
9		with with	S	1657	5	0.5			0	1658 Sample 8.2-8.5 RBS Screen
10		1 2								B212-CB-10-03
11		2 1	S	1703	6	1			0	1705 Sample 10-11 RBS Screen, short list includes
12		1 1								B212-CB-10-04
13		with with	S	1708	7	2			0	
14		1 1								
15										Blow - F14'

DRILLING LOG FOR CBH-10

CBH10



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0-1.3 Brown tight clay, moist, organic rich (0-0.2)	○	○	○
2	2-2.3 Clay, as above	○	○	○
3	2.3-3.2 yellowish brown fine silty sand, dry	○	○	○
4	3.2-3.6 Black fine sand/silt, dry (spalls)	○	○	○
5	4-5.1 Black fine sand/silt, wood (spalls)	○	○	○
6	6-7.3 Dark brown-black fine sand/silt with some wood, dry (spalls)	○	○	○
7		○	○	○
8	8-8.1 wood	○	○	○
9	8.1-8.5 Gray fine sand/silt, dry-moist	○	○	○
10	10-11 Gray fine sand/silt, trace black w/ roots, moist	○	○	○
11	12-14 Gray fine sand/silt, wet	○	○	○
12		○	○	○
13		○	○	○
14		○	○	○
15		○	○	○

BOREHOLE NO. CBH-11

CBH-12

BOREHOLE NO.

BOREHOLE NO. 1 D100

Borehole Record for CBH-11

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

010212



DRILLING LOG FOR C.37411

Project Name BU 01 212

Site Location FORT EDWARDS, NY

Date Started/Finished 3/1/06

Drilling Company GEOTECH OF NY, INC.

Driller's Name PAUL GYIS / JAMES JONES

Geologist's Name Bill N. HARRISON

Geologist's Signature [Signature]

Rig Type (s) CR12-05

Drilling Method (s) HSI

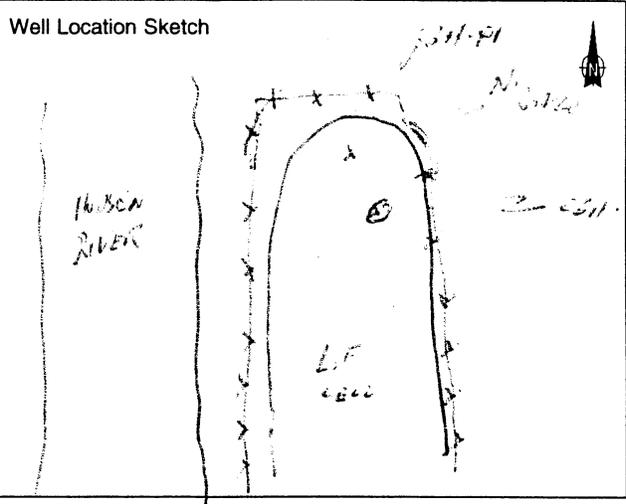
Bit Size (s) N/A Auger Size (s) 4 1/2"

Auger/Split Spoon Refusal N/A

Total Depth of Borehole Is 18'

Total Depth of Corehole Is 20'

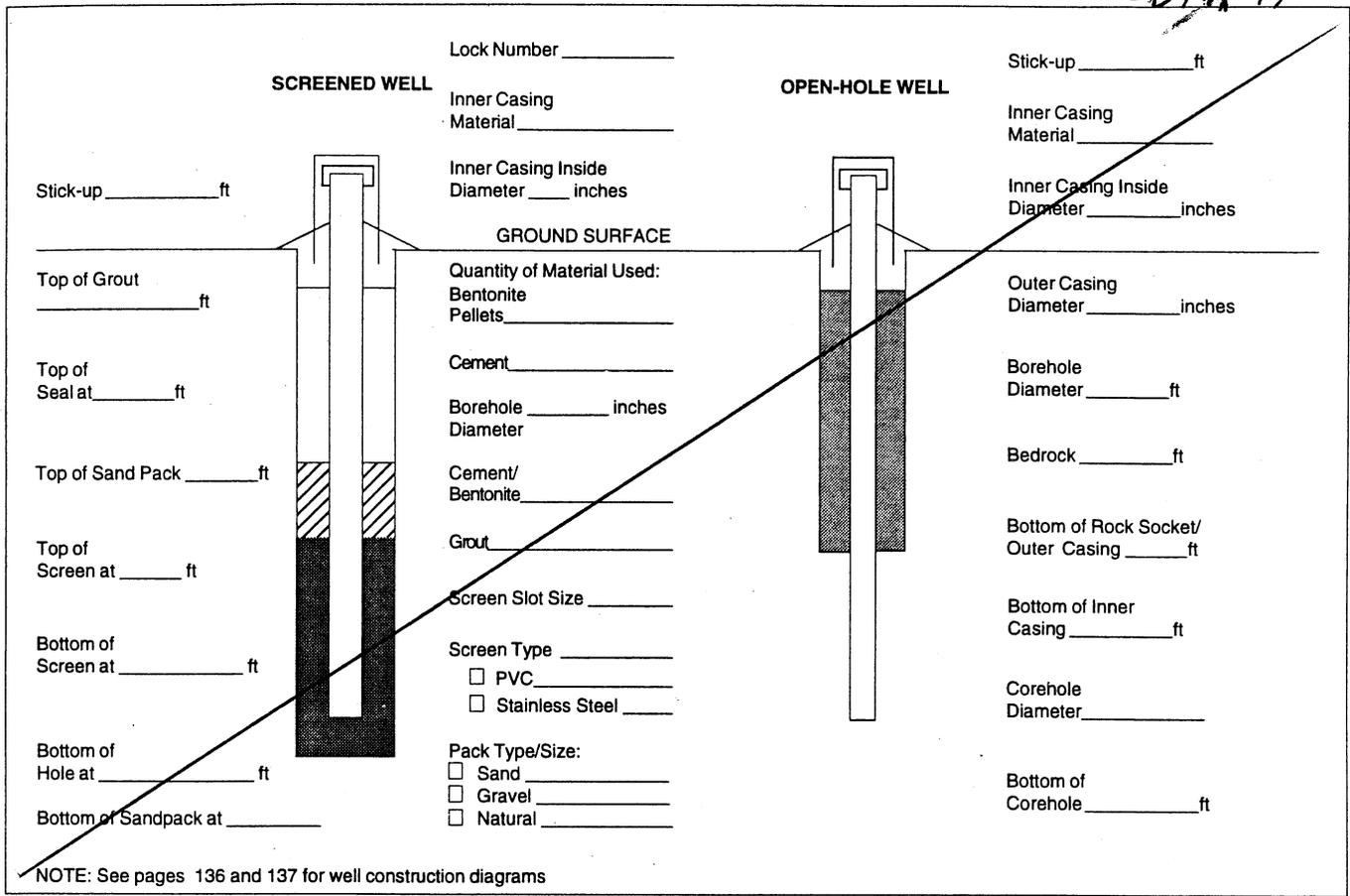
Water Level (TOIC)		
Date	Time	Level (Feet)



Depth (Feet)	Sample Number	Blows on Sampler		Soil Components Rock Profile CL SL S GR	Penetration Times	Run Number	255 Core Recovery	RQD	Fracture Sketch	Pb HNUOVA (ppm)	Comments
1	1	6	4	CL			15'			0	
2		4	3								
3	2	6	5	S			18'			0	0313-0420 1' 10" 2.16-2.19' 100% silty
4		5	6								
5	3	3	0	SL/S			1'			0	0336 SIM 202 5.11-6.0 100% silty
6		4	6								
7	4	6	5	S						35	7.07-7.4 100% silty
8		5	5								
9	5	5	5							0	
10		5	6								
11	6	2	2				14'			0	
12		3	3								
13	7	3	5				17'			07	
14		5	6								
15		3	3								



CBH-17



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0-2 Tight, dense BROWN CLAY. FROZEN AT TOP. DAMP	○	○	○
2	med. PLASTICITY. HIGHLY COHESIVE	○	○	○
3	2.0-3.5 WELL SORTED, TAN SAND; mg - Fg (Sample 1)	○	○	○
4	3.5-6 BLACK STONY SILT. (SANDS). SILT w/ med. grains	○	○	○
5	(BLACK). DAMP	○	○	○
6	C-3 F-M GRAY SAND; TRACE SILT. (Sample 2)	○	○	○
7	3-10	○	○	○
8	3-10 CONTINUED GRAY/BUFF SAND w/ TRACE SILT. WOOD	○	○	○
9	FRAGMENTS. TRACE BLACK SAND FRAGMENTS w/ (M. DAMP)	○	○	○
10	10'-12" SAND TO 3'-10'	○	○	○
11		○	○	○
12	13'-14' Sand AS 13.2' Rk. 1000-2000 1/2" 1/4" 2mm	○	○	○
13	CLAY? 3mm. TRK. ANGULAR/SUBANGULAR	○	○	○
14	BLACK SILT	○	○	○
15		○	○	○

BOREHOLE NO. (R/S)      BOREHOLE NO. CBH-12



CBA-11

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
16	14-16: @ 17 15.4', Sand gray/brown silty	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17	Sand. rounded clasts to 1/8" (rare).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18	16-17.6: same thin AB-UBI? clay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19	TIGHT BLK <sup>clay</sup> SILT to 17.0'. Sand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20	Silt to 18.4', then grayish green to Tan clay; <sup>brown silt</sup> clay to 20'	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
24		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
26		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
27		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
28		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
29		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
30		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
31		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
32		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
33		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
34		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
35		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
36		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
37		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
38		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
39		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
40		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
41		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
42		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
43		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
44		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
45		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BOREHOLE NO. CBA-11

BOREHOLE NO. CBA-12

# Borehole Record for CBH-12

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet



# DRILLING LOG FOR CBH-12

Project Name DOCO 212

Site Location Fort Edwards, NY

Date Started/Finished 2/23/06

Drilling Company N27715, Inc.

Driller's Name DAVE WYSE

Geologist's Name STEVE NICHOLS

Geologist's Signature [Signature]

Rig Type (s) CME-45

Drilling Method (s) AS9

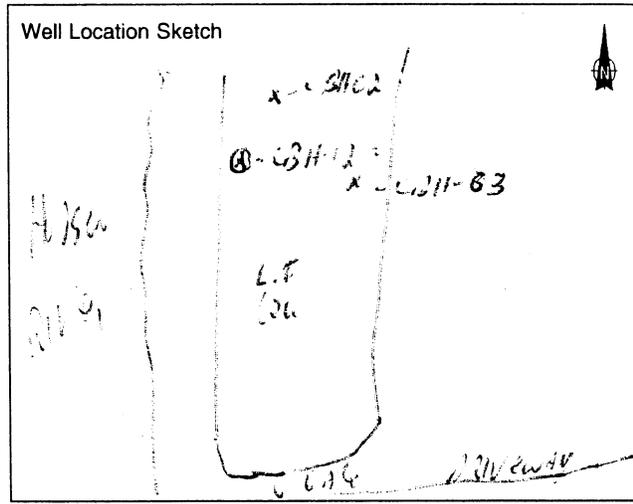
Bit Size (s) N/A Auger Size (s) 4 1/2"

Auger/Split Spoon Refusal N/A

Total Depth of Borehole Is 16'

Total Depth of Corehole Is 18'

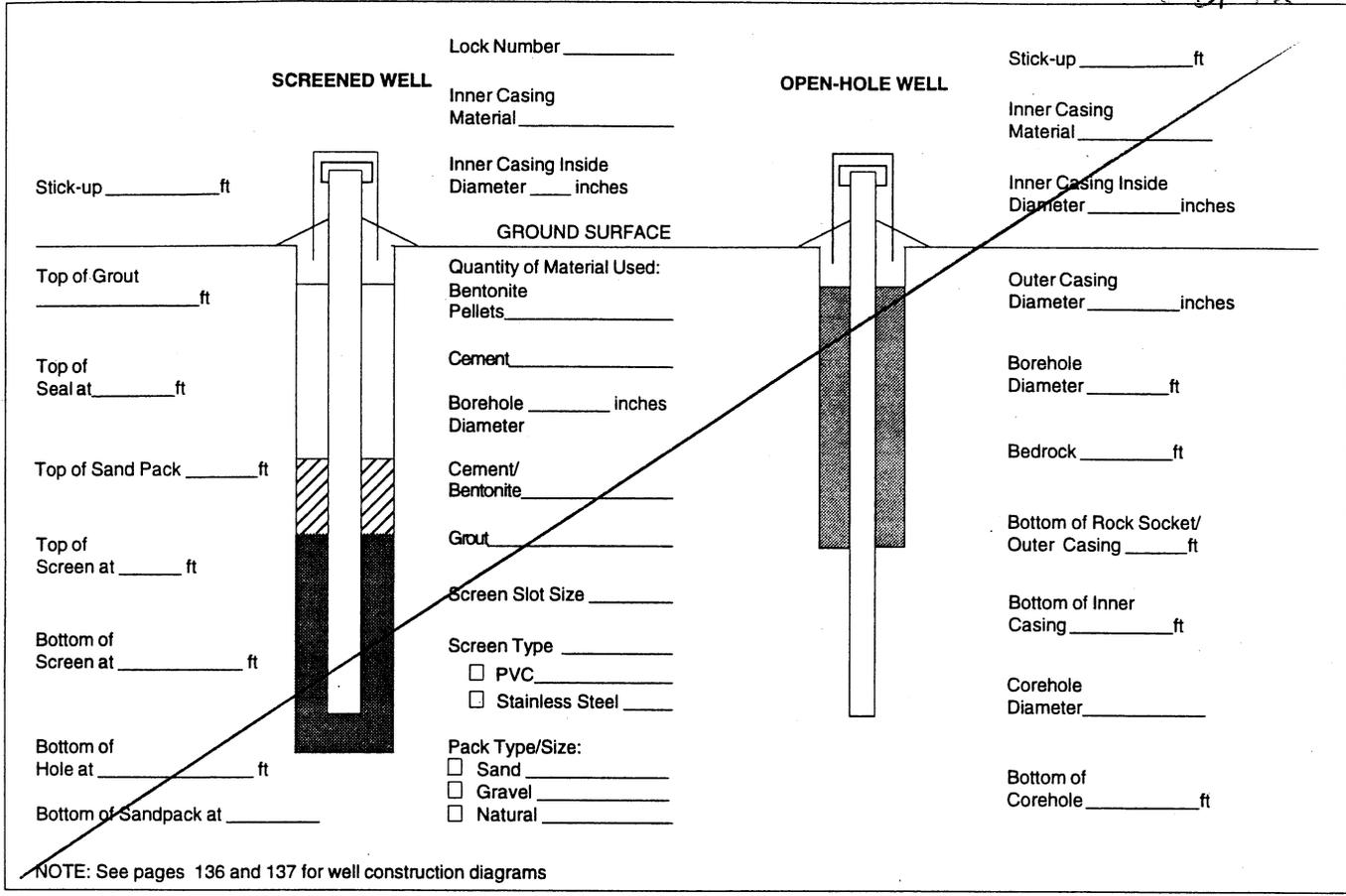
Water Level (TOIC)		
Date	Time	Level (Feet)



Depth (Feet)	Sample Number	Blows on Sampler	Soil Components Rock Profile			Penetration Times	Run Number	SS Core Recovery	RQD	Fracture Sketch	P 10 H <sub>2</sub> O/NO <sub>3</sub> (ppm)	Comments
			CL	SL	S							
1	1	4 3			CL		1.5			0		
2		3 3										
3	2	3 5			S		1.7			0.5	3.5-4 14:27 Sample 1	
4		6 7										
5	3	3 8			S/GR		1.7			0	5.5-6.2 14:31 Total 13, Sec. Sample 2	
6		7 6										
7	4	3 3					1.8			0		
8		3 3									7.5-8.0 14:41 Sample 3	
9	5	1 1					1.7			0		
10		2 3			S							
11	6	2 2					2.0			0	11.5-12 14:50 Sample 4	
12		3 4										
13	7	4 5					1.7					
14		4 5										
15		3 3										

Vertical text on the right edge of the page, possibly a page number or reference code.

CH-12



NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0-2.5 - Brown tight clay, 0 Amp	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	2.5-4 Brown sand well sorted F-med gr. (Sample 2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	4-6.2 GLYSS coarse sand w/ gravel (5.9) 0 Amp (Sample 1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	6.2 - 8.8 coarse gravel w/ coarse sand; much quartz sand; light in color, overall. Round (clay)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	to 5 mm. 0 Amp some altered shale fragments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	to 3 mm; angular (Sample 3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	8.8-11 Light med sand shale clay, angular	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	10-11 same sand (Sample 4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	12-14	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12	Some light sand some wood chips. Fine gravel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13	then angular beach shale fragments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BOREHOLE NO. C-123

CBH-12

C-12

Depth(feet)	Sample Number	Blows on Sampler		Soil Components CL SL S GR				Rock Profile	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	HNU/OVA (ppm)	Comments
16	8	2	3							2					15.2-15.4
17	9	3	2							2				0	
18		2	3												
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
32															
33															
34															
35															
36															
37															
38															
39															
40															
41															
42															
43															
44															
45															

B.C.H. = 13'

15.2-15.4



C3H-12

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
16	Light Beige sandy w/wood to 15.2, then brown clay silt to 18'	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
17		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
24		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
26		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
27		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
28		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
29		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
30		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
31		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
32		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
33		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
34		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
35		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
36		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
37		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
38		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
39		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
40		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
41		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
42		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
43		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
44		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
45		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BOREHOLE NO. C3H-12

## APPENDIX D – EXCAVATION WORK PLAN (EWP)

### D-1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination or breach or alter the site’s cover system, the site owner or their representative will notify the NYSDEC contacts listed in Table D-1 below. The information on this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in Appendix B.

**Table D-1: Notifications\***

Elyse DuBois, NYSDEC Project Manager	518-402-9683 elyse.dubois@dec.ny.gov
Benjamin Rung, NYSDEC Section Chief	518-402-9826 benjamin.rung@dec.ny.gov

\* Note: Notifications are subject to change and will be updated as necessary.

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent of excavation, plans/drawings for site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated, any modifications of truck routes, and any work that may impact an EC;
- A summary of environmental conditions anticipated to be encountered in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work;
- A summary of the applicable components of this EWP;
- A statement that the work will be performed in compliance with this EWP and 29 Code of Federal Regulation (CFR) 1910.120;

- A copy of the contractor's HASP, in electronic format;
- Identification of disposal facilities for potential waste streams; and
- Identification of sources of any anticipated backfill, along with the required request to import form and all supporting documentation including, but not limited to, chemical testing results.

## **D-2 SOIL SCREENING METHODS**

Visual, olfactory and instrument-based (e.g. photoionization detector) soil screening will be performed during all excavations into known or potentially contaminated material (remaining contamination) or a breach of the cover system. A QEP as defined in 6 NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State will perform the screening. Soil screening will be performed when invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal and material that requires testing to determine if the material can be reused on-site as soil beneath a cover or if the material can be used as cover soil. Further discussion of off-site disposal of materials and on-site reuse is provided in Section D-6 and Section D-7 of this Appendix.

## **D-3 SOIL STAGING METHODS**

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by the NYSDEC.

#### **D-4 MATERIALS EXCAVATION AND LOAD-OUT**

A QEP as defined in 6 NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State will oversee all invasive work and the excavation and load-out of all excavated material.

The owner of the property and remedial party (if applicable) and its contractors are responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the site will be investigated by the QEP. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the site. A site utility stakeout will be completed for all utilities prior to any ground intrusive activities at the site.

Loaded vehicles leaving the site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

A truck wash will be operated on-site, as appropriate. The QEP will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the site until the activities performed under this section are complete. Truck wash waters will be collected and disposed of off-site in an appropriate manner.

Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking.

The QEP will be responsible for ensuring that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials. Material accumulated from the street cleaning and egress cleaning activities will be disposed off-site at a permitted landfill facility in accordance with all applicable local, State, and Federal regulations.

#### **D-5 MATERIALS TRANSPORT OFF-SITE**

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks loaded with site materials will exit the vicinity of the site using only the approved truck route that takes into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; (f) overall safety in transport; and (g) community input.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project site.

Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development.

Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

#### **D-6 MATERIALS DISPOSAL OFF-SITE**

All material excavated and removed from the site will be treated as contaminated and regulated material and will be transported and disposed off-site in a permitted facility in accordance with all local, State and Federal regulations. If disposal of material from this site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC project manager. Unregulated off-site management of materials from this site will not occur without formal NYSDEC project manager approval.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, (e.g. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C&D debris recovery facility) Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include, but will not be limited to: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill and contaminated soils taken off-site will be handled consistent with 6 NYCRR Parts 360, 361, 362, 363, 364 and 365. Material that does not meet Unrestricted SCOs is prohibited from being taken to a New York State C&D debris recovery facility (6 NYCRR Subpart 360-15 registered or permitted facility).

#### **D-7 MATERIALS REUSE ON-SITE**

The QEP as defined in 6 NYCRR part 375 will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material (i.e. contaminated) does not remain on-site. Contaminated on-site material, including historic fill and

contaminated soil, that is acceptable for reuse on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

Proposed materials for reuse on-site must be sampled for full suite analytical parameters including per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane. The sampling frequency will be in accordance with DER-10 Table 5.4(e)10 unless prior approval is obtained from the NYSDEC project manager for modification of the sampling frequency. The analytical results of soil/fill material testing must meet the site use criteria presented in NYSDEC DER-10 Appendix 5 – Allowable Constituent Levels for Imported Fill or Soil for all constituents listed, and the NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (October 2020 or date of current version, whichever is later) guidance values. Approvals for modifications to the analytical parameters must be obtained from the NYSDEC project manager prior to the sampling event.

Soil/fill material for reuse on-site will be segregated and staged as described in Sections D-2 and D-3 of this EWP. The anticipated size and location of stockpiles will be provided in the 15-day notification to the NYSDEC project manager. Stockpile locations will be based on the location of site excavation activities and proximity to nearby site features. Material reuse on-site will comply with requirements of NYSDEC DER-10 Section 5.4(e)4. Any modifications to the requirements of DER-10 Section 5.4(e)4 must be approved by the NYSDEC project manager.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the site will not be reused on-site.

## **D-8 FLUIDS MANAGEMENT**

All liquids to be removed from the site, including but not limited to, excavation dewatering, decontamination waters and groundwater monitoring well purge and development waters, will be handled, transported and disposed off-site at a permitted facility in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the site, and will be managed off-site, unless prior approval is obtained from NYSDEC.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a State Pollutant Discharge Elimination System (SPDES) permit.

## **D-9 COVER SYSTEM RESTORATION**

After the completion of soil removal and any other invasive activities the cover system will be restored in a manner that complies with TSCA regulations, the 1994 Consent Decree, and the ROD. The existing cover system is comprised of a minimum of 12 inches of sand covered by up to five feet of clay. Cover restoration should include a minimum one-foot of clay over a demarcation layer. A demarcation layer will be placed to provide a visual reference to the top of the remaining contamination zone, the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this SMP. If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the remaining contamination. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in an updated SMP.

## **D-10 BACKFILL FROM OFF-SITE SOURCES**

All materials proposed for import onto the site will be approved by the QEP, as defined in 6 NYCRR Part 375, and will be in compliance with provisions in this SMP prior to receipt at the site. A Request to Import/Reuse Fill or Soil form, which can be found at <http://www.dec.ny.gov/regulations/67386.html>, will be prepared and submitted to the NYSDEC project manager allowing a minimum of 5 business days for review. A copy of the form is presented in Appendix J.

Material from industrial sites, spill sites, other environmental remediation sites, or potentially contaminated sites will not be imported to the site.

All imported soils will meet the backfill and cover soil quality standards established in 6 NYCRR 375-6.7(d) and DER-10 Appendix 5 for commercial use. Soils that meet 'general' fill requirements under 6 NYCRR Part 360.13, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC project manager. Soil material will be sampled for the full suite of analytical parameters, including PFAS and 1,4-dioxane. Solid waste will not be imported onto the site.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

## **D-11 STORMWATER POLLUTION PREVENTION**

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by the NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

Silt fencing or hay bales will be installed around the entire perimeter of the construction area.

## **D-12 EXCAVATION CONTINGENCY PLAN**

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition. The NYSDEC project manager will be promptly notified of the discovery.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for a full list of analytes [target analyte list (TAL) metals, target compound list (TCL) volatiles and semi-volatiles (including 1,4-dioxane), TCL pesticides and PCBs, and PFAS], unless the site history and previous sampling results provide sufficient justification to limit the list of analytes. In this case, a reduced list of analytes

will be proposed to the NYSDEC project manager for approval prior to sampling. Any tanks will be closed as per NYSDEC regulations and guidance.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone within two hours to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the Periodic Review Report.

### **D-13 COMMUNITY AIR MONITORING PLAN**

A work plan for any intrusive activities must include a CAMP to address community health and safety which identifies measures and/or actions to ensure that the public living and working near the site as well as employees or visitors to any facility located on the site are protected from exposure to site contaminants during intrusive activities, remedial actions or on-site treatment actions undertaken during the investigation and/or remediation of the site, including site management. At a minimum, a CAMP must include the appropriate requirements identified by the NYSDOH for a site, which are included in DER-10, Appendix 1A.

A fugitive dust/particulate monitoring program is a component of the NYSDOH CAMP described and is necessary for all sites where intrusive activities are planned during the investigation and remediation of the site. Guidance for developing a fugitive dust/particulate monitoring program is included in DER-10, Appendix 1B.

If a sensitive receptor, such as a school, day care or residential area is adjacent to the site, a fixed monitoring station should be located at that site perimeter, regardless of wind direction.

Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

#### **D-14 ODOR CONTROL PLAN**

This odor control plan is capable of controlling emissions of nuisance odors off-site. If nuisance odors are identified at the site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the remedial party's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

#### **D-15 DUST CONTROL PLAN**

Particulate monitoring must be conducted according to the CAMP provided in Appendix E. If particulate levels at the site exceed the thresholds listed in the CAMP or if airborne dust is observed on the site or leaving the site, the dust suppression techniques

listed below will be employed. The remedial party will also take measures listed below to prevent dust production on the site.

A dust suppression plan that addresses dust management during invasive on-site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved using a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

## **D-16 OTHER NUISANCES**

A plan for rodent control will be developed and utilized by the contractor prior to and during site clearing and site grubbing, and during all remedial work.

A plan will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances.

## **APPENDIX E – HEALTH AND SAFETY PLAN**

A HASP and associated CAMP will be prepared by a qualified person in accordance with the most recently adopted and applicable general industry (29 CFR 1910) and construction (29 CFR 1926) standards of Occupational Safety and Health Administration (OSHA), the U.S. Department of Labor, as well as any other federal, state or local applicable statutes or regulations. The CAMP must include the appropriate requirements identified by the NYSDOH. Both documents shall be prepared in accordance with NYSDEC's DER-10. At a minimum, the HASP will include a description of the health and safety procedures associated with both performance monitoring of the remedial system(s) and effectiveness monitoring. A copy of the HASP will be available at the site during the conduct of all activities to which it is applicable.

## APPENDIX F – QUALITY ASSURANCE PROJECT PLAN

All sampling and analyses will be performed in accordance with the requirements of the Quality Assurance Project Plan (QAPP) prepared for the site. Main Components of the QAPP include:

- QA/QC Objectives for Data Measurement;
- Sampling Program:
  - Sample containers will be properly washed, decontaminated, and appropriate preservative will be added (if applicable) prior to their use by the analytical laboratory. Containers with preservative will be tagged as such.
  - Sample holding times will be in accordance with the NYSDEC Analytical Services Protocol (ASP) requirements.
  - Field QC samples (e.g., trip blanks, coded field duplicates, and matrix spike/matrix spike duplicates) will be collected as necessary.
- Sample Tracking and Custody;
- Calibration Procedures:
  - All field analytical equipment will be calibrated immediately prior to each day's use. Calibration procedures will conform to manufacturer's standard instructions.
  - The laboratory will follow all calibration procedures and schedules as specified in USEPA SW-846 and subsequent updates that apply to the instruments used for the analytical methods.
- Analytical Procedures;
- Preparation of a Data Usability Summary Report (DUSR), which will present the results of data validation, including a summary assessment of laboratory data packages, sample preservation and chain of custody procedures, and a summary assessment of precision, accuracy, representativeness, comparability, and completeness for each analytical method.
- Internal QC and Checks;
- QA Performance and System Audits;
- Preventative Maintenance Procedures and Schedules;
- Corrective Action Measures.
- Assessing achievement of the remedial performance criteria.
- Preparing the necessary reports for the various monitoring activities.
- Reporting requirements;
- Quality Assurance/Quality Control (QA/QC) requirements;

## **APPENDIX G – SITE MANAGEMENT FORMS**

**Summary of Green Remediation Metrics for Site Management**

Site Name: \_\_\_\_\_ Site Code: \_\_\_\_\_  
 Address: \_\_\_\_\_ City: \_\_\_\_\_  
 State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ County: \_\_\_\_\_

**Initial Report Period (Start Date of period covered by the Initial Report submittal)**  
 Start Date: \_\_\_\_\_

**Current Reporting Period**  
 Reporting Period From: \_\_\_\_\_ To: \_\_\_\_\_

**Contact Information**  
 Preparer’s Name: \_\_\_\_\_ Phone No.: \_\_\_\_\_  
 Preparer’s Affiliation: \_\_\_\_\_

**I. Energy Usage:** Quantify the amount of energy used directly on-site and the portion of that derived from renewable energy sources.

	<b>Current Reporting Period</b>	<b>Total to Date</b>
Fuel Type 1 (e.g. natural gas (cf))		
Fuel Type 2 (e.g. fuel oil, propane (gals))		
Electricity (kWh)		
<b>Of that Electric usage, provide quantity:</b>		
Derived from renewable sources (e.g. solar, wind)		
<b>Other energy sources</b> (e.g. geothermal, solar thermal (Btu))		

*Provide a description of all energy usage reduction programs for the site in the space provided on Page 3.*

**II. Solid Waste Generation:** Quantify the management of solid waste generated on-site.

	<b>Current Reporting Period (tons)</b>	<b>Total to Date (tons)</b>
<b>Total waste generated on-site</b>		
Operation, Maintenance and Monitoring (OM&M) generated waste		
<b>Of that total amount, provide quantity:</b>		
Transported off-site to landfills		
Transported off-site to other disposal facilities		
Transported off-site for recycling/reuse		
Reused on-site		

Provide a description of any implemented waste reduction programs for the site in the space provided on Page 3.

**III. Transportation/Shipping:** Quantify the distances travelled for delivery of supplies, shipping of laboratory samples, and the removal of waste.

	<b>Current Reporting Period (miles)</b>	<b>Total to Date (miles)</b>
Standby Engineer/Contractor		
Laboratory Courier/Delivery Service		
Waste Removal/Hauling		

Provide a description of all mileage reduction programs for the site in the space provided on Page 3. Include specifically any local vendor/services utilized that are within 50 miles of the site.

**IV. Water Usage:** Quantify the volume of water used on-site from various sources.

	<b>Current Reporting Period (gallons)</b>	<b>Total to Date (gallons)</b>
Total quantity of water used on-site		
<b>Of that total amount, provide quantity:</b>		
Public potable water supply usage		
Surface water usage		
On-site groundwater usage		
Collected or diverted storm water usage		

Provide a description of any implemented water consumption reduction programs for the site in the space provided on Page 3.

**V. Land Use and Ecosystems:** Quantify the amount of land and/or ecosystems disturbed and the area of land and/or ecosystems restored to a pre-development condition (i.e. Green Infrastructure).

	<b>Current Reporting Period (acres)</b>	<b>Total to Date (acres)</b>
Land disturbed		
Land restored		

Provide a description of any implemented land restoration/green infrastructure programs for the site in the space provided on Page 3.

<b>Description of green remediation programs reported above</b> (Attach additional sheets if needed)
Energy Usage:
Waste Generation:
Transportation/Shipping:
Water usage:
Land Use and Ecosystems:
Other:

<b>CERTIFICATION BY CONTRACTOR</b>
I, _____ (Name) do hereby certify that I am _____ (Title) of the Company/Corporation herein referenced and contractor for the work described in the foregoing application for payment. According to my knowledge and belief, all items and amounts shown on the face of this application for payment are correct, all work has been performed and/or materials supplied, the foregoing is a true and correct statement of the contract account up to and including that last day of the period covered by this application.
_____
<b>Date</b> <span style="float: right;"><b>Contractor</b></span>



## **APPENDIX H – FIELD ACTIVITIES PLAN**

The Field Activities Plan should be consistent with the protocols developed during the investigation phase of the project, and should include a description of:

- Well gauging;
- Well purging;
- Sampling methodology (soil, groundwater, sediment, soil vapor, system sampling, etc.);
- Analytical methodology:
  - Lab certification;
  - Analytical methods;
  - Analytes.

## **APPENDIX I – MONITORING WELL CONSTRUCTION LOGS**

# Borehole Record for MW-5

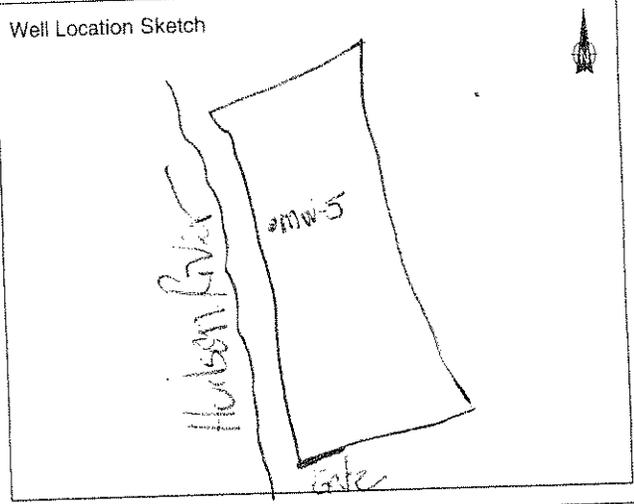
- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet



DRILLING LOG FOR MW-5

Project Name Billy 212  
 Site Location FT Edward, NY  
 Date Started/Finished 2/22/06  
 Drilling Company Northstar  
 Driller's Name Dave Lyons  
 Geologist's Name S. Reynolds Smith  
 Geologist's Signature [Signature]  
 Rig Type (s) CME 453  
 Drilling Method (s) HSA  
 Bit Size (s) MH Auger Size (s) 4 1/4"  
 Auger/Split Spoon Refusal MH  
 Total Depth of Borehole Is 241' bgs  
 Total Depth of Corehole Is 24'

Water Level (TOIC)		
Date	Time	Level (Feet)



Depth (Feet)	Sample Number	Blows on Sampler	Soil Components Rock Profile CL SL S GR	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	HNU/OVA (ppm)	Comments
1		3 1	CL S	0844	1	1.4			0	Dstr Sample 0.4-0.5 B212-MW-05-01 PCB Screen
2		1 2	spills							
3		1 2		0845	2	1.4			0	
4		2 4	spills							
5		3 3	spills	0850	3	1.7			0	557 Sample 4.4-5.7 B212-MW-05-02 PCB Screen + TCC PCBs MMSD for TCC PCBs
6		3 4	spills							
7		3 3	spills	0903	4	1.7			0	0905 Sample 6.6-6.9 PCB Screen B212-MW-05-03
8		4 5	S							
9		2 1	S	0917	5	1.1			0.5	
10		2 1	S							
11		WH WH	S	0926	6	1.8			0	0925 Sample 10.6-11.1 B212-MW-05-04 rd up PCB Screen
12		1 2								
13		WR WR	S	0936	7	1.2			0	
14		WH WH								
15		WH WH	S	0947	8	1.6			0	



B212 - MW05

Lock Number \_\_\_\_\_

SCREENED WELL

Inner Casing Material PVC

Inner Casing Inside Diameter 2 inches

Stick-up 2.5 ft

Top of Grout 0 ft

Top of Seal at 9 ft

Top of Sand Pack 11 ft

Top of Screen at 13 ft

Bottom of Screen at 23 ft

Bottom of Hole at 24.23.3

Bottom of Sandpack at 23.3

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter 8 inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size 0.010

Screen Type \_\_\_\_\_

PVC

Stainless Steel \_\_\_\_\_

Pack Type/Size:

Sand more #10

Gravel \_\_\_\_\_

Natural \_\_\_\_\_

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0-0.4 Brown clay light, organic rich top 0.2 dry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	0.4-0.8 Yellowish brown fine sand, dry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	0.8-1.4 Black fine sand dry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	2-3.4 Black fine sand/silt (spots), dry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	4-5.7 Black fine sand/silt (spots) dry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	6-6.5 Black fine sand/silt (spots), dry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	6.5-7.7 Brown silty <sup>fine</sup> sand, dry trace clay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	8-9.1 Brown silty clayey fine sand, dry-moist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	10-12 Brown silty clayey fine sand, moist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10	12-13.2 Brown silty clayey fine sand, moist + becoming	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11	moist-wet at 12.9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12	14-15.6 Brown silty clayey fine sand, moist + becoming	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13	wet at 14.6, decreased clay depth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

23.5

BOREHOLE NO. MW-6  
BOREHOLE NO. MW-7



B212-MWD

Depth(feet)	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
16	16-18 Brown silty <sup>fine</sup> sand w/ trace clay grading to yellowish brown fine silty sand wet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18	18-19.2 yellowish brown fine silty sand wet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19	20-21.4 Gray w/ yellowish orange mottling silty fine sand, wet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21	22.0- <del>22.2</del> 23.3 sand, as above	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
24		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
26		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
27		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
28		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
29		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
30		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
31		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
32		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
33		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
34		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
35		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
36		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
37		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
38		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
39		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
40		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
41		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
42		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
43		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
44		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
45		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BOREHOLE NO. MW-2

# Borehole Record for MW-6

---

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet



# DRILLING LOG FOR MW-6

Project Name Budy 212

Site Location Ft Edward, NY

Date Started/Finished 2/22/06 - 2/23/06

Drilling Company North Star

Driller's Name Dave Lyons

Geologist's Name S. Reynolds SM7M

Geologist's Signature [Signature]

Rig Type (s) CME 45B

Drilling Method (s) HSA

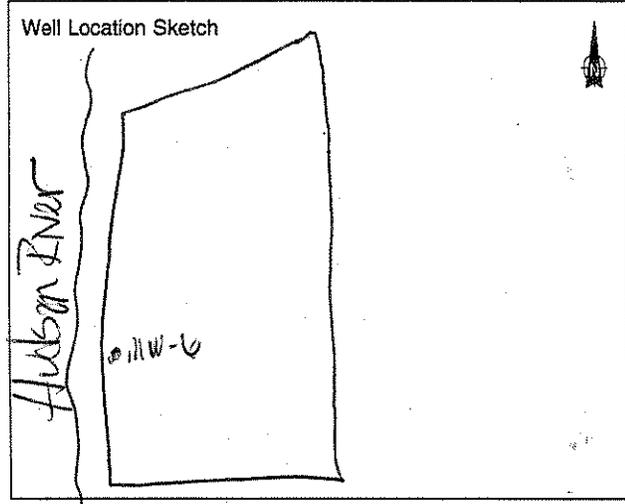
Bit Size (s) N/A Auger Size (s) 4 1/4"

Auger/Split Spoon Refusal N/A

Total Depth of Borehole Is 23

Total Depth of Corehole Is 2

Water Level (TOIC)		
Date	Time	Level (Feet)



Depth (Feet)	Sample Number	Blows on Sampler	Soil Components Rock Profile CL SL S GR	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	P10 MnO <sub>2</sub> OVA (ppm)	Comments
1		2 3	CL	1632	1	1.6			0	1635 Sample 0.3-0.9 B212-MW-06-01 for PCB Sci + TCL PCBs
2		3 2								
3		3 4	spoils	1637	2	1.6			0	
4		4 3								
5		2 2	spoils	1651	3	1.8			0	1652 sample 4-4.3 B212-MW-06-02 for SEM P/B
6		2 4	sand							1653 sample 4.9-5.1
7		1 1	S	1659	4	1.6			0	B212-MW-06-03 for SEM
8		1 1								1659 sample 6-6.3 PCB SEM
9		1 1	S	1709	5	1.6			0	B212-MW-06-04
10		1 1								
11		1 1	S	1716	6	1.7			0	
12		1 1								
13		WT 1	S	1723	7	1.3			0	
14		WT WT								
15		WT WT	S	1731	8	2			0	

MW-06

Lock Number \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

**SCREENED WELL**

Inner Casing Material PVC

Inner Casing Inside Diameter 2 inches

Quantity of Material Used:  
 Bentonite Pellets \_\_\_\_\_  
 Cement \_\_\_\_\_  
 Borehole Diameter 8 inches  
 Cement/Bentonite \_\_\_\_\_  
 Grout \_\_\_\_\_  
 Screen Slot Size 0.00  
 Screen Type PVC  
 PVC  
 Stainless Steel  
 Pack Type/Size:  
 Sand 1/2" #0  
 Gravel \_\_\_\_\_  
 Natural \_\_\_\_\_

**OPEN-HOLE WELL**

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

GROUND SURFACE

Stick-up 2.5 ft

Top of Grout 0 ft

Top of Seal at 8 ft

Top of Sand Pack 10 ft

Top of Screen at 12 ft

Bottom of Screen at 22 ft

Bottom of Hole at 23 ft

Bottom of Sandpack at 23 ft

NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0-1 Brown light clay, dry	○	○	○
2	1-1.4 yellowish brown fine sand dry	○	○	○
3	1.4 - 1.6 Black to black brown fine sand, dry (spoils)	○	○	○
4	2-3.6 medium gray w/ some black fine sand, dry, trace shale (black w/ orange oxidation) (spoils)	○	○	○
5	4-4.8 medium gray w/ some black fine sand/silt, dry, trace shale (spoils)	○	○	○
6	4.8-5.8 Brown silty fine sand trace clay, dry	○	○	○
7	6-7.6 yellowish brown fine, silty sand, trace clay, dry	○	○	○
8	8-9.6 sand, as above	○	○	○
9	10-11.1 sand as above	○	○	○
10	11.1-11.7 Grayish brown fine sand/silt w/ fine clay, moist	○	○	○
11	12-13.3 Grayish greenish brown silt/fine sand, moist becoming moist-wet at 12.7	○	○	○
12		○	○	○
13		○	○	○
14		○	○	○
15		○	○	○

BOREHOLE NO. MW-7



MW-06

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
16	14-16 Grayish brown fine silty sand, trace clay, wet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	16-17.5 Sand as above	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	17.5-18 yellowish brown mottling in gray silt, trace clay, wet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	18-18.8 silt as above	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	18.8-20 Gray fine sand/silt, trace clay, wet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
44		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
45		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Borehole Record for MW-7

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

BOREHOLE NO. CBH-1

BOREHOLE NO. CBH-2

BOREHOLE NO. CBH-3

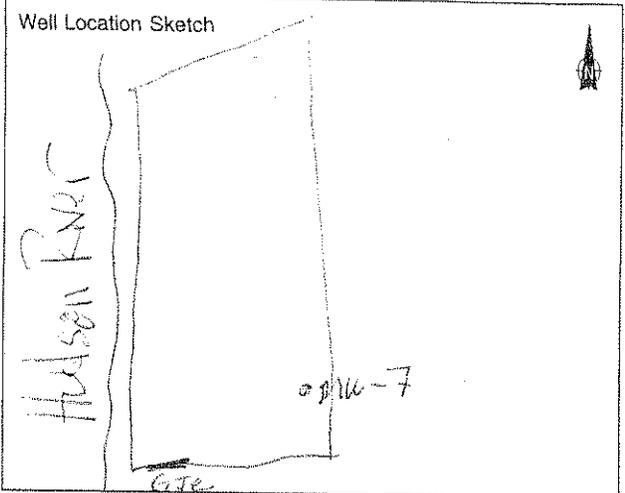
BOREHOLE NO. CBH-4



# DRILLING LOG FOR MW-7

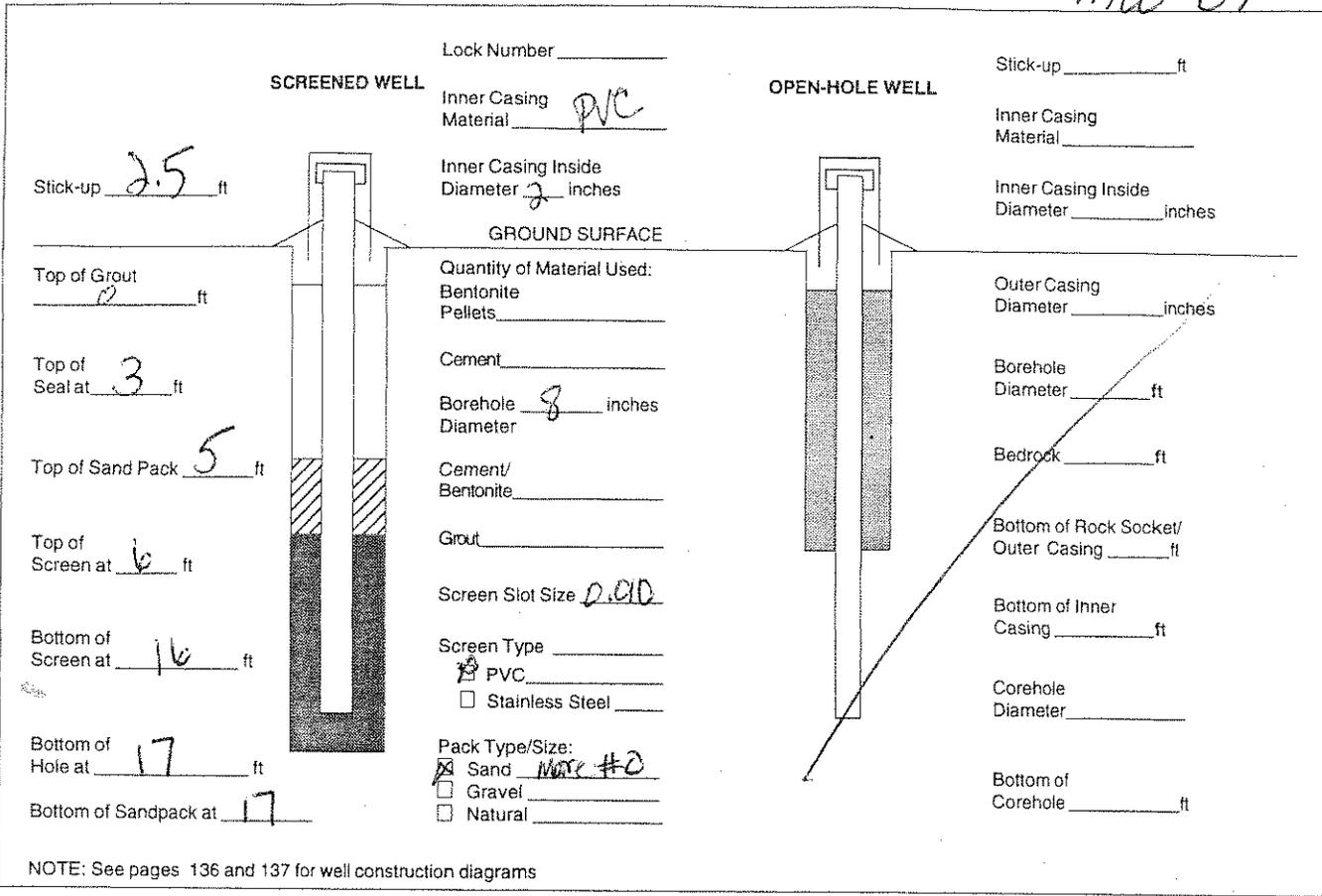
Project Name B212  
 Site Location Ft Edward, NY  
 Date Started/Finished 2/23/06  
 Drilling Company Nash Star  
 Driller's Name DAVID LYONS  
 Geologist's Name S. Reynolds Smith  
 Geologist's Signature [Signature]  
 Rig Type (s) CME 45B  
 Drilling Method (s) HSA  
 Bit Size (s) N/A Auger Size (s) 4 1/4"  
 Auger/Split Spoon Refusal N/A  
 Total Depth of Borehole Is 17' bgs  
 Total Depth of Corehole Is N/A

Water Level (TOIC)		
Date	Time	Level (Feet)



Depth (Feet)	Sample Number	Blows on Sampler	Soil Components Rock Profile CL SL S GR	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	Pb H <sub>2</sub> O VA (ppm)	Comments
1		4 3	CL	1058	1	1.8			0	1100 Sample at 1.4-1.6 B212-MW-07-01 (PbSCM)
2		3 3								
3		2 3	CL							
4		3 4	S	1102	2	1.5			0	
5		1 1	spoils							
6		1 wt	S	1113	3	1.6			0.8	1115 Sample 4-4.4 B212-MW-07-02 PbSCM
7		wt 1	S	1120	4	1.6			0	1116 Sample 4.8-5.2 B212-MW-07-03 PbSCM (MSMSD)
8		wt 1								
9		wt wt								
10		wt 1	S	1131	5	1.5			0	
11		1 wt	S	1134	6	2			0	1140 Sample at 11.6-12 B212-MW-07-04 (PbSCM & CLPbS)
12		1 wt								
13		1 1	S	1141	7	1.1			0	
14		1 1								
15		2 3 3 4	S	1245	8	1.6				

MW-07



Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
1	0-1.8 Brown light clay, dry-moist	○	○	○
2	2-3.2 Clay as above	○	○	○
3	3.2-3.5 yellowish brown fine sand, dry-moist	○	○	○
4	4-4.4 Black fine sand, void (spoils)	○	○	○
5	4.4-4.8 yellowish brown fine silty sand, moist	○	○	○
6	4.8-5.6 Greenish gray fine sand, moist-wet;	○	○	○
7	trace clay	○	○	○
8	<del>6-6.6</del> 6-6.6 sand, as above	○	○	○
9	6.6-7.6 yellowish brown silty fine sand - med	○	○	○
10	silty sand, trace clay, moist-wet	○	○	○
11	8-8.5 Greenish gray of orange mottling	○	○	○
12	moist-wet silty fine sand trace clay	○	○	○
13	10-12 sand as above grading to med	○	○	○
14	silty fine sand trace clay wet	○	○	○
15	12-12.5 Sand as above	○	○	○
	12.5-13.1 Dark gray F-M sand, wet	○	○	○
	medium to			

BOREHOLE NO. 021-1  
BOREHOLE NO. 021-2  
BOREHOLE NO. 021-3

MW-07

Depth(feet)	Sample Number	Blows on Sampler	Soil Components				Rock Profile	Penetration Times	Run Number	Core Recovery	RQD	Fracture Sketch	HNU/OVA (ppm)	Comments
			CL	SL	S	GR								
16												0	1252 sample 14.6 - 14.8	
17						BON = 16	'BGS						for PCB screen +TAL Metals	
18													B212-MW07-05	
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
32														
33														
34														
35														
36														
37														
38														
39														
40														
41														
42														
43														
44														
45														

17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45

MW-07

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
16	14 - 14.7 sand, as above	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17	14.7 - 15.7 Dark gray to black fine to coarse sand w/ little fine gravel, wet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
24		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
26		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
27		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
28		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
29		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
30		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
31		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
32		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
33		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
34		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
35		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
36		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
37		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
38		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
39		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
40		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
41		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
42		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
43		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
44		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
45		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BOREHOLE NO. 02A-1  
BOREHOLE NO. 02A-2  
BOREHOLE NO. 02A-3  
BOREHOLE NO. 02A-4  
BOREHOLE NO. 02A-5  
BOREHOLE NO. 02A-6  
BOREHOLE NO. 02A-7  
BOREHOLE NO. 02A-8  
BOREHOLE NO. 02A-9  
BOREHOLE NO. 02A-10  
BOREHOLE NO. 02A-11  
BOREHOLE NO. 02A-12  
BOREHOLE NO. 02A-13  
BOREHOLE NO. 02A-14  
BOREHOLE NO. 02A-15  
BOREHOLE NO. 02A-16  
BOREHOLE NO. 02A-17  
BOREHOLE NO. 02A-18  
BOREHOLE NO. 02A-19  
BOREHOLE NO. 02A-20  
BOREHOLE NO. 02A-21  
BOREHOLE NO. 02A-22  
BOREHOLE NO. 02A-23  
BOREHOLE NO. 02A-24  
BOREHOLE NO. 02A-25  
BOREHOLE NO. 02A-26  
BOREHOLE NO. 02A-27  
BOREHOLE NO. 02A-28  
BOREHOLE NO. 02A-29  
BOREHOLE NO. 02A-30  
BOREHOLE NO. 02A-31  
BOREHOLE NO. 02A-32  
BOREHOLE NO. 02A-33  
BOREHOLE NO. 02A-34  
BOREHOLE NO. 02A-35  
BOREHOLE NO. 02A-36  
BOREHOLE NO. 02A-37  
BOREHOLE NO. 02A-38  
BOREHOLE NO. 02A-39  
BOREHOLE NO. 02A-40  
BOREHOLE NO. 02A-41  
BOREHOLE NO. 02A-42  
BOREHOLE NO. 02A-43  
BOREHOLE NO. 02A-44  
BOREHOLE NO. 02A-45

**APPENDIX J – REQUEST TO IMPORT/REUSE FILL MATERIAL FORM**



**NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



**Request to Import/Reuse Fill or Soil**

\*This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.\*

**SECTION 1 – SITE BACKGROUND**

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

**SECTION 2 – MATERIAL OTHER THAN SOIL**

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

**SECTION 3 - SAMPLING**

Provide a brief description of the number and type of samples collected in the space below:

-----  
*Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.*

*If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.*

**SECTION 3 CONT'D - SAMPLING**

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

-----  
*Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.*

*If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.*

**SECTION 4 – SOURCE OF FILL**

Name of person providing fill and relationship to the source:

Location where fill was obtained:

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

The information provided on this form is accurate and complete.

---

Signature

---

Date

---

Print Name

---

Firm

## **APPENDIX K – RESPONSIBILITIES OF OWNER**

### **Responsibilities**

The owner is responsible for implementing the SMP for the Buoy 212 Dredge Spoil Disposal Area site (the “site”), number Site No. 558018. The owner is currently listed as:

Bruce Feldman  
New York State Department of Transportation  
50 Wolf Road  
Albany NY 12233

Brian U. Stratton  
New York State Canal Corporation  
200 Southern Blvd. P.O. Box 189  
Albany NY 12201-0189

Nothing on this page shall supersede the provisions of an Environmental Notice, Consent Order, Consent Decree, agreement, or other legally binding document that affects rights and obligations relating to the site.

### **Site Owner’s Responsibilities:**

- 1) The owner shall follow the provisions of the SMP as they relate to future construction and excavation at the site.
- 2) In accordance with a periodic time frame determined by the NYSDEC, the owner shall periodically certify, in writing, that all ICs set forth in an Environmental Notice remain in place and continue to be complied with.
- 3) In the event the site is delisted, the owner remains bound by the Environmental Notice and shall submit, upon request by the NYSDEC, a written certification that the Environmental Notice is still in place and has been complied with.

- 4) The owner shall grant access to the site to the NYSDEC and its agents for the purposes of performing activities required under the SMP and assuring compliance with the SMP.
- 5) The owner is responsible for assuring the security of the remedial components located on its property to the best of its ability. If damage to the remedial components or vandalism is evident, the owner shall notify the NYSDEC in accordance with the timeframes indicated in Section 1.3 - Notifications.
- 6) If some action or inaction by the owner adversely impacts the site, the owner must notify the NYSDEC in accordance with the time frame indicated in Section 1.3 - Notifications and coordinate the performance of necessary corrective actions with NYSDEC.
- 7) The owner must notify the NYSDEC of any change in ownership of the site property (identifying the tax map numbers in any correspondence) and provide contact information for the new owner of the site property. 6 NYCRR Part contains notification requirements applicable to any construction or activity changes and changes in ownership. Among the notification requirements is the following: Sixty days prior written notification must be made to the NYSDEC. Notification is to be submitted to the NYSDEC Division of Environmental Remediation's Site Control Section. Notification requirements for a change in use are detailed in Section 1.3 of the SMP. A change of use includes, but is not limited to, any activity that may increase direct human or environmental exposure (e.g., day care, school or park). A 60-Day Advance Notification Form and Instructions are found at <http://www.dec.ny.gov/chemical/76250.html>.
- 8) The owner will maintain fences, conduct mowing, etc.
- 9) In accordance with the tenant notification law, within 15 days of receipt, the owner must supply a copy of any vapor intrusion data, that is produced with respect to structures and that exceeds NYSDOH or OSHA guidelines on the site. The owner must otherwise comply with the tenant and occupant notification provisions of Environmental Conservation Law Article 27, Title 24.

Future site owners and their successors and assigns are required to carry out the activities set forth above.