



engineering and constructing a better tomorrow

September 7, 2012

Mr. David J. Chiusano

New York State Department of Environmental Conservation

Division of Environmental Remediation

625 Broadway, 12th Floor

Albany, New York 12233-7013

Subject: **3456 Oneida Street, Site No. 633049**
 Remedial Design Pre-Design Investigation Report (Phase III) - Draft
 Work Assignment # D007619-12
 MACTEC Engineering and Consulting, P.C., Project No. 3612122232

Dear Mr. Chiusano:

MACTEC Engineering and Consulting, P.C. (MACTEC), under contract to the New York State Department of Environmental Conservation (NYSDEC), is submitting this supplemental Pre-Design Investigation (PDI) Report (Report) summarizing investigation activities conducted during the third phase of PDI at the 3456 Oneida Street site (Site); formerly the Madden Property Site, in New Hartford, Oneida County, New York (Figure 1). The Site is listed as a Class 2 Inactive hazardous waste site; Site No. 633049 in the Registry of Hazardous Waste Sites in New York State (NYS). This Report has been prepared in accordance with the NYSDEC requirements in work assignment (WA) No. D007619-12, and with the April 2011 Superfund Standby Contract between MACTEC and the NYSDEC.

BACKGROUND

The objective of the PDI was to further evaluate the extent of polychlorinated biphenyl (PCB) contamination in surface and subsurface soils, and sediments at the Site, and abutting properties to the north, east, and south of the Site following recent (2011) storm events, namely Hurricanes Irene and Lee. The information and data collected during the PDI will be used in support of the Remedial Design.

PREVIOUS/RECENT INVESTIGATIONS

Previous investigations completed at the Site include the Remedial Investigation (Phases I and II), the 2007 Interim Remedial Measure, and the 2008 Supplemental Investigation. In addition, recent Site investigation activities to evaluate PCB levels in soils and sediment were conducted in late 2011 and early 2012 as part of Phases I and II of the PDI. Analytical results from samples collected during these investigations indicate that concentrations of PCBs in surface soil, subsurface soil, and sediment at the Site are above applicable NYS Standards, Criteria and Guidance.

PRE-DESIGN INVESTIGATION ACTIVITIES – PHASE III

The field work described in this report completes those conducted as part of Phase III of the PDI under Task 3 – Environmental Sampling and Implementation, and consistent with WA No. D007619-12 and MACTEC's Field Activities Plans (FAPs) (MACTEC, 2012a,b) submitted to the NYSDEC in April and July 2012. The field program for this phase of the PDI included completion of the following subtasks:

- surface and subsurface soil sampling at 27 off-Site direct push boring locations
- soil sampling at three (3) non-direct push locations from debris pile located off-Site to the north
- soil sampling at five (5) on-Site geotechnical soil boring locations to evaluate the engineering properties and stability of on-Site soils.

Surface and Subsurface Soil Sampling – Off-Site Locations

Direct Push Sample Locations: A total of 27 direct push exploration locations were completed during Phase III of the PDI at off-Site locations shown on Figure 2 and Figure 3. GeoLogic NY, Inc., under contract to MACTEC, provided direct push and drilling services conducted on abutting properties to the north (19 locations) from June 12, 2012 to June 15, 2012, as well as direct push services on the abutting railroad property to the east (8 locations) on July 25, 2012. Direct push soil borings were

advanced to depths ranging from two feet to eight feet below ground surface (bgs). MACTEC personnel provided oversight during subsurface investigation activities and sample collection in accordance with the FAPs (MACTEC, 2012a,b).

Locations were each sampled continuously to characterize overburden materials prior to sampling. Photoionization detector headspace readings were used to screen soil samples for the presence of volatile organic compounds (VOCs) as each soil sample was removed from the sampler. Soil samples were described consistent with the Unified Soil Classification System. Following description, surface and subsurface soil samples were submitted to TestAmerica Laboratories, Inc. (which conducted its work through direct contract with the NYSDEC) under separate chain of custody for analysis. Soil sample description and classification, VOC headspace readings, and relevant observations were recorded on field data records provided in Attachment 1.

Debris Pile Sample Locations: In addition to the off-Site direct push soil borings, three (3) non-direct push soil samples (FP-014 to FP-016) were collected from within a debris pile located north of the Site, just west of the train tracks (see Figure 2). The pile, identified during preliminary remedial action activities conducted at the Site in early 2012, reportedly contains varying amounts of construction and demolition debris and is approximately 18 cubic yards in size. Samples from the debris pile were collected using hand tools, and were also submitted to TestAmerica Laboratories, Inc. for analysis in order to characterize PCB concentrations for disposal purposes.

Geotechnical Soil Borings

To evaluate the engineering properties and stability of soils along the eastern banks of the Sauquoit Creek, five (5) geotechnical soil borings (GT-001 to GT-005) were advanced along the east side of the creek, spaced roughly 85 feet from one another as shown on Figure 4. The objective of these borings was to establish the fill-to-native soil transition depth and to identify shallow fine-grained or organic layers, if present.

Soil samples were collected continuously from the ground surface to 12 feet bgs, and then sampled at standard 5-foot intervals until the borings were terminated at 27 feet bgs or refusal surface, whichever was encountered first. Based on information collected during previous investigations,

the fill-to-native soil transition depth is estimated to be between 5 and 15 feet bgs. . Photoionization detector headspace readings were used to screen extracted soil samples for the presence of VOCs. Soil samples were visually described consistent with the Unified Soil Classification System. Following description, three (3) gradation samples, including two (2) hydrometer samples were submitted to SJB Services, Inc. (under contract with MACTEC) to determine the particle size distribution within the fill and native materials present in this area of the creek. Soil sample description and classification, VOC headspace readings, and relevant observations were recorded on field data records provided in Attachment 1.

PRE-DESIGN INVESTIGATION RESULTS

Surface and Subsurface Soil Sampling

Unconsolidated overburden encountered during soil sampling at direct push exploration locations, consisting of placed fill materials overlying native soils observed at depths of generally between from four to eight feet bgs, are consistent with those described during previous investigations,. The fill material includes soils ranging from silts and clays to sands and gravels, which have been mixed with demolition debris comprised of bricks, concrete, metal, machinery parts, ash, and wood. This mixed fill material overlies a typically very dense glacial till which appears to be continuous throughout the Site.

Concentrations of PCBs in samples collected during Phase III of the PDI are consistent with those reported during previous investigations. Sample locations with corresponding analytical data are also shown on Figure 2 and Figure 3; analytical results from samples collected are summarized in Table 1 and Table 2. A chemistry review report and complete analytical results are included in Attachment 2.

Geotechnical Soil Borings

Unconsolidated overburden encountered during advancement of geotechnical soil borings GT-001 to GT-005 consisted of placed fill materials overlying native soils observed at depths between five to 14 feet bgs, consistent with previous investigations. Table 3 summarizes general boring characteristics and observations encountered during advancement, including approximate fill

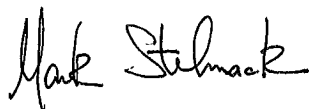
September 2012

thickness (e.g. fill-to-native soil transition depth), various soil types encountered, and total boring depths. Results from gradation and hydrometer analyses for samples collected from soil borings GT-002 (at two depth intervals) and GT-004 (one depth interval) indicate overburden soils are classified as silty sand (GT-002 4'-6'), where underlying native materials are reported as silt with sand (GT-002 10'-12') and silt (GT-004 9.5'-10'). Particle size distribution reports are included in Attachment 3.

We appreciate the opportunity to present this report. If you have any questions or concerns please call Mark Stelmack at 207-828-3592 or Lucas Benedict at 207-828-3599.

Sincerely,

MACTEC Engineering and Consulting, P.C.



Mark J. Stelmack, PE
Project Manager



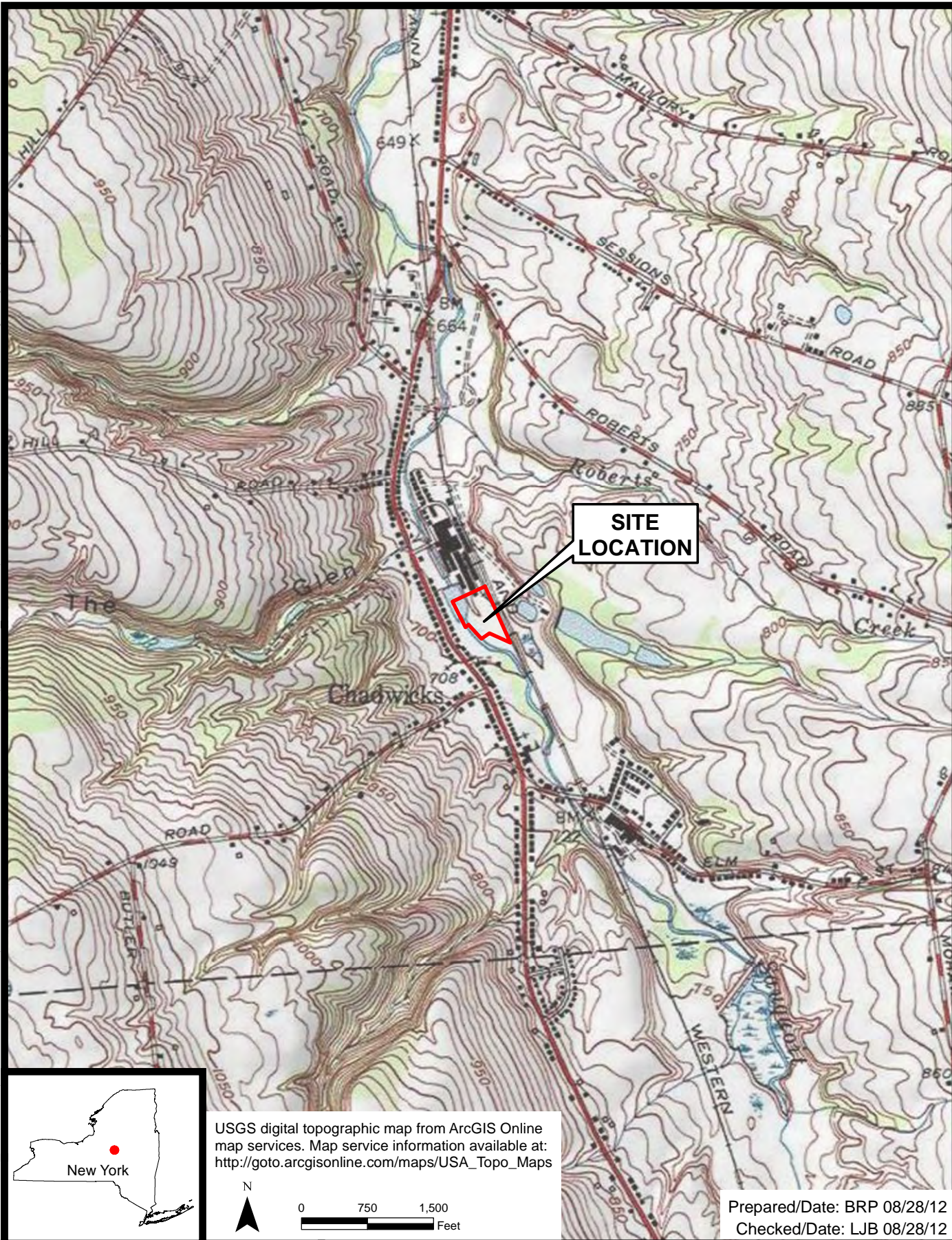
Lucas J. Benedict
Project Scientist

Enclosures (3)

REFERENCES

MACTEC Engineering and Consulting, P.C. (MACTEC), 2012a. Field Activities Plan: Pre-Design Investigation – Phase III, 3456 Oneida Street Site (NYSDEC Site 633049). April 2012.

MACTEC Engineering and Consulting, P.C. (MACTEC), 2012b. Field Activities Plan: Pre-Design Investigation – Phase III (Rev. 1), 3456 Oneida Street Site (NYSDEC Site 633049). July 2012.



PRE-DESIGN INVESTIGATION REPORT
3456 ONEIDA STREET
NEW HARTFORD, NEW YORK



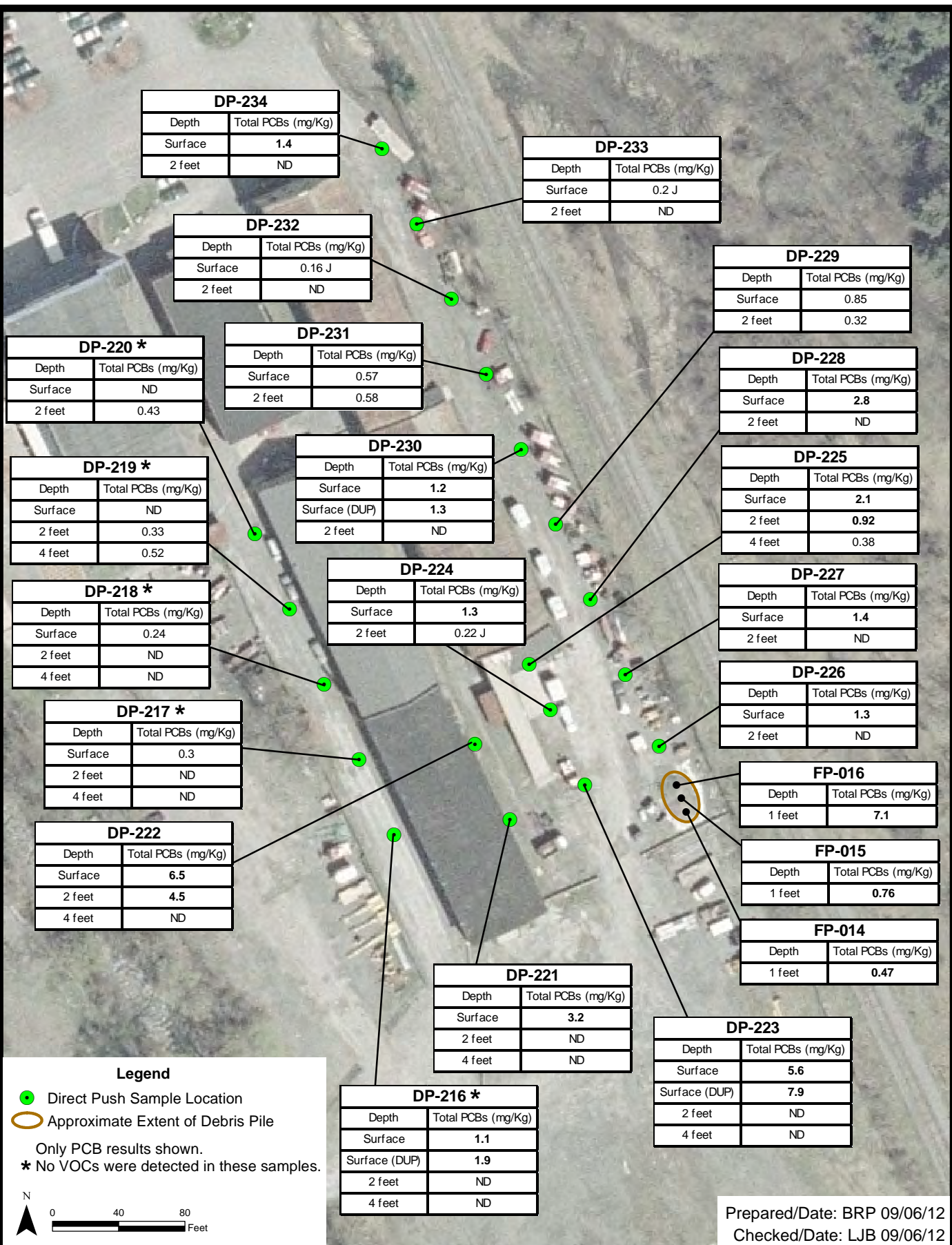
Prepared/Date: BRP 08/28/12
Checked/Date: LJB 08/28/12

SITE LOCATION

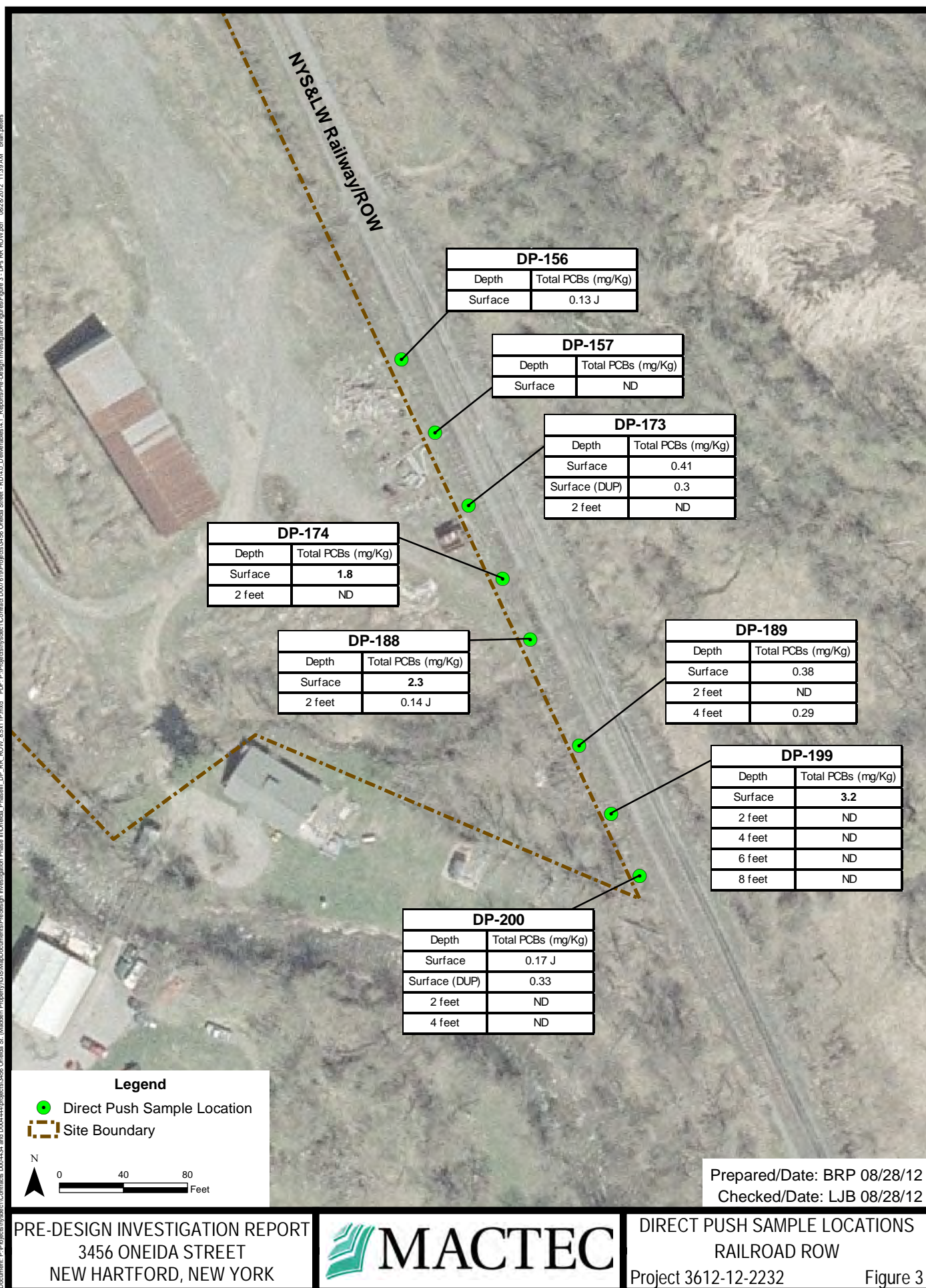
Project 3612-12-2232

Figure 1

Document: P:\Projects\Invest\Contract 0004434 and 0004434\Project\3456 Oneida Street - RPA's Deliverable\1. Report\Pre-Design Investigation\Figure 2 - DP Sample Locations (North).pdf 09/06/2012 8:28 AM jlan.peters



Document: P:\Projects\Invest\Contract 0004434 and 0004444\Project\3456 Oneida Street - RD43.5 Deliverables\4.1 Report\Pre-Design Investigation\Figure 3 - DP's BR ROW.pdf 08/28/2012 11:39 AM bna paters





**Table 1: Analytical Results Summary - Northern Properties
 (22 Sample Locations)**

Location ID	Sample ID	QC Code	Sample Date	Depth (bgs)	Parameter	Result (mg/Kg)	Qualifier
Direct Push Soil Borings							
DP-216	MPDP21600012XX	FS	12-Jun-12	0-0.2 ft	PCBs, Total	1.1	
DP-216	MPDP21600012XX	FS	12-Jun-12	0-0.2 ft	VOCs, All Target Compounds	ND	
DP-216	MPDP21600012XD	FD	12-Jun-12	0-0.2 ft	PCBs, Total	1.9	
DP-216	MPDP21600012XD	FD	12-Jun-12	0-0.2 ft	VOCs, All Target Compounds	ND	
DP-216	MPDP21600212XX	FS	12-Jun-12	1.8-2.3 ft	PCBs, Total	0.24	U
DP-216	MPDP21600212XX	FS	12-Jun-12	1.8-2.3 ft	VOCs, All Target Compounds	ND	
DP-216	MPDP21600412XX	FS	12-Jun-12	3.8-4.3 ft	PCBs, Total	0.27	U
DP-217	MPDP21700012XX	FS	12-Jun-12	0-0.2 ft	PCBs, Total	0.3	
DP-217	MPDP21700012XX	FS	12-Jun-12	0-0.2 ft	VOCs, All Target Compounds	ND	
DP-217	MPDP21700212XX	FS	12-Jun-12	1.8-2.3 ft	PCBs, Total	0.25	U
DP-217	MPDP21700212XX	FS	12-Jun-12	1.8-2.3 ft	VOCs, All Target Compounds	ND	
DP-217	MPDP21700412XX	FS	12-Jun-12	3.8-4.3 ft	PCBs, Total	0.31	U
DP-218	MPDP21800012XX	FS	12-Jun-12	0-0.2 ft	PCBs, Total	0.24	
DP-218	MPDP21800012XX	FS	12-Jun-12	0-0.2 ft	VOCs, All Target Compounds	ND	
DP-218	MPDP21800212XX	FS	12-Jun-12	1.8-2.3 ft	PCBs, Total	0.22	U
DP-218	MPDP21800212XX	FS	12-Jun-12	1.8-2.3 ft	VOCs, All Target Compounds	ND	
DP-218	MPDP21800412XX	FS	12-Jun-12	3.8-4.3 ft	PCBs, Total	0.18	U
DP-219	MPDP21900012XX	FS	12-Jun-12	0-0.2 ft	PCBs, Total	0.21	U
DP-219	MPDP21900012XX	FS	12-Jun-12	0-0.2 ft	VOCs, All Target Compounds	ND	
DP-219	MPDP21900212XX	FS	12-Jun-12	1.8-2.3 ft	PCBs, Total	0.33	
DP-219	MPDP21900212XX	FS	12-Jun-12	1.8-2.3 ft	VOCs, All Target Compounds	ND	
DP-219	MPDP21900412XX	FS	12-Jun-12	3.8-4.3 ft	PCBs, Total	0.52	
DP-220	MPDP22000012XX	FS	12-Jun-12	0-0.2 ft	PCBs, Total	0.2	U
DP-220	MPDP22000012XX	FS	12-Jun-12	0-0.2 ft	VOCs, All Target Compounds	ND	
DP-220	MPDP22000212XX	FS	12-Jun-12	1.8-2.3 ft	PCBs, Total	0.43	
DP-220	MPDP22000212XX	FS	12-Jun-12	1.8-2.3 ft	VOCs, All Target Compounds	ND	
DP-221	MPDP22100012XX	FS	12-Jun-12	0-0.2 ft	PCBs, Total	3.2	
DP-221	MPDP22100212XX	FS	12-Jun-12	1.8-2.3 ft	PCBs, Total	0.3	U
DP-221	MPDP22100412XX	FS	12-Jun-12	3.8-4.3 ft	PCBs, Total	0.26	U
DP-222	MPDP22200012XX	FS	12-Jun-12	0-0.2 ft	PCBs, Total	6.5	
DP-222	MPDP22200212XX	FS	12-Jun-12	1.8-2.3 ft	PCBs, Total	4.5	
DP-222	MPDP22200412XX	FS	12-Jun-12	3.8-4.3 ft	PCBs, Total	0.29	U
DP-223	MPDP22300012XX	FS	12-Jun-12	0-0.2 ft	PCBs, Total	5.6	
DP-223	MPDP22300012XD	FD	12-Jun-12	0-0.2 ft	PCBs, Total	7.9	
DP-223	MPDP22300212XX	FS	12-Jun-12	1.8-2.3 ft	PCBs, Total	0.24	U
DP-223	MPDP22300412XX	FS	12-Jun-12	3.8-4.3 ft	PCBs, Total	0.25	U
DP-224	MPDP22400012XX	FS	12-Jun-12	0-0.2 ft	PCBs, Total	1.3	
DP-224	MPDP22400212XX	FS	12-Jun-12	1.8-2.3 ft	PCBs, Total	0.22	J
DP-225	MPDP22500012XX	FS	12-Jun-12	0-0.2 ft	PCBs, Total	2.1	
DP-225	MPDP22500212XX	FS	12-Jun-12	1.8-2.3 ft	PCBs, Total	0.92	
DP-225	MPDP22500412XX	FS	12-Jun-12	3.8-4.3 ft	PCBs, Total	0.38	
DP-226	MPDP22600012XX	FS	12-Jun-12	0-0.2 ft	PCBs, Total	1.3	
DP-226	MPDP22600212XX	FS	12-Jun-12	1.8-2.3 ft	PCBs, Total	0.3	U
DP-227	MPDP22700012XX	FS	12-Jun-12	0-0.2 ft	PCBs, Total	1.4	
DP-227	MPDP22700212XX	FS	12-Jun-12	1.8-2.3 ft	PCBs, Total	0.26	U
DP-228	MPDP22800012XX	FS	12-Jun-12	0-0.2 ft	PCBs, Total	2.8	
DP-228	MPDP22800212XX	FS	12-Jun-12	1.8-2.3 ft	PCBs, Total	0.24	U
DP-229	MPDP22900012XX	FS	12-Jun-12	0-0.2 ft	PCBs, Total	0.85	

**Table 1: Analytical Results Summary - Northern Properties
 (22 Sample Locations)**

Location ID	Sample ID	QC Code	Sample Date	Depth (bgs)	Parameter	Result (mg/Kg)	Qualifier
DP-229	MPDP22900212XX	FS	12-Jun-12	1.8-2.3 ft	PCBs, Total	0.32	
DP-230	MPDP23000012XX	FS	13-Jun-12	0-0.2 ft	PCBs, Total	1.2	
DP-230	MPDP23000012XD	FD	13-Jun-12	0-0.2 ft	PCBs, Total	1.3	
DP-230	MPDP23000212XX	FS	13-Jun-12	1.8-2.3 ft	PCBs, Total	0.24	U
DP-231	MPDP23100012XX	FS	13-Jun-12	0-0.2 ft	PCBs, Total	0.57	
DP-231	MPDP23100212XX	FS	13-Jun-12	1.8-2.3 ft	PCBs, Total	0.58	
DP-232	MPDP23200012XX	FS	13-Jun-12	0-0.2 ft	PCBs, Total	0.16	J
DP-232	MPDP23200212XX	FS	13-Jun-12	1.8-2.3 ft	PCBs, Total	0.27	U
DP-233	MPDP23300012XX	FS	13-Jun-12	0-0.2 ft	PCBs, Total	0.2	J
DP-233	MPDP23300212XX	FS	13-Jun-12	1.8-2.3 ft	PCBs, Total	0.26	U
DP-234	MPDP23400012XX	FS	13-Jun-12	0-0.2 ft	PCBs, Total	1.4	
DP-234	MPDP23400212XX	FS	13-Jun-12	1.8-2.3 ft	PCBs, Total	0.24	U
Fill Pile Soil Samples							
FP-014	MPFP01400112XX	FS	13-Jun-12	1.0-2.0 ft	PCBs, Total	0.47	
FP-015	MPFP01500112XX	FS	13-Jun-12	1.0-2.0 ft	PCBs, Total	0.76	
FP-016	MPFP01600112XX	FS	13-Jun-12	1.0-2.0 ft	PCBs, Total	7.1	

Notes:

Results reported in milligrams per kilogram (mg/Kg)

Sample Depth in feet below ground surface (bgs)

QC Code:

FS = Field Sample; FD = Field Duplicate

Bold = Compound detected in sample

Highlighted results ≥ 1.0 ppm Site Cleanup Goal (SCG)

ND = Not detected

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

**Table 2: Analytical Results Summary - Railroad ROW Sample Locations
(8 Sample Locations)**

Location ID	Sample ID	QC Code	Sample Date	Depth (bgs)	Parameter	Result (mg/Kg)	Qualifier
DP-156	MPDP15600012XX	FS	7/25/2012	0-0.2 ft	PCBs, Total	0.13	J
DP-157	MPDP15700012XX	FS	7/25/2012	0-0.2 ft	PCBs, Total	0.22	U
DP-173	MPDP17300012XX	FS	7/25/2012	0-0.2 ft	PCBs, Total	0.41	
DP-173	MPDP17300012XD	FD	7/25/2012	0-0.2 ft	PCBs, Total	0.3	
DP-173	MPDP17300212XX	FS	7/25/2012	1.8-2.3 ft	PCBs, Total	0.27	U
DP-174	MPDP17400012XX	FS	7/25/2012	0-0.2 ft	PCBs, Total	1.8	
DP-174	MPDP17400212XX	FS	7/25/2012	1.8-2.3 ft	PCBs, Total	0.24	U
DP-188	MPDP18800012XX	FS	7/25/2012	0-0.2 ft	PCBs, Total	2.3	
DP-188	MPDP18800212XX	FS	7/25/2012	1.8-2.3 ft	PCBs, Total	0.14	J
DP-189	MPDP18900012XX	FS	7/25/2012	0-0.2 ft	PCBs, Total	0.38	
DP-189	MPDP18900212XX	FS	7/25/2012	1.8-2.3 ft	PCBs, Total	0.200	U
DP-189	MPDP18900412XX	FS	7/25/2012	3.8-4.3 ft	PCBs, Total	0.29	
DP-199	MPDP19900012XX	FS	7/25/2012	0-0.2 ft	PCBs, Total	3.2	
DP-199	MPDP19900212XX	FS	7/25/2012	1.8-2.3 ft	PCBs, Total	0.22	U
DP-199	MPDP19900412XX	FS	7/25/2012	3.8-4.3 ft	PCBs, Total	0.24	U
DP-199	MPDP19900612XX	FS	7/25/2012	5.8-6.3 ft	PCBs, Total	0.24	U
DP-199	MPDP19900812XX	FS	7/25/2012	7.8-8.3 ft	PCBs, Total	0.190	U
DP-200	MPDP20000012XX	FS	7/25/2012	0-0.2 ft	PCBs, Total	0.17	J
DP-200	MPDP20000012XD	FD	7/25/2012	0-0.2 ft	PCBs, Total	0.33	
DP-200	MPDP20000212XX	FS	7/25/2012	1.8-2.3 ft	PCBs, Total	0.25	U

Notes:

Results reported in milligrams per kilogram (mg/Kg)

Sample Depth in feet below ground surface (bgs)

QC Code:

FS = Field Sample; FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

Bold = Compound detected in sample**Highlighted results ≥ 0.1 ppm Site Cleanup Goal (SCG)**

Table 3: Geotechnical Boring Summary Table

Location ID	Total Depth (ft BGS)	Approximate Fill Thickness (ft)	Overburden Soils Encountered*	Refusal Surface (Y/N)
GT-001	22	13.5	Fill; Till (SM)	N
GT-002	16.3	10	Fill; Silt/Till (ML)	Y
GT-003	27	6.3	Fill; Sand (SW,SP-SM); Silt/Alluvium (ML)	N
GT-004	11.5	7.5	Fill, Silt/Alluvium (ML)	Y
GT-005	12.3	4.7	Fill; Till (SM)	Y

Notes:

ft = feet

BGS = below ground surface

* = Unified Soil Classification System (USCS) designation(s) applied, where appropriate.

ATTACHMENT 1

FIELD DATA RECORDS

SURFACE SOIL SAMPLING RECORD



PROJECT NAME 3456 Onelda Street Site - PDI Phase III	
PROJECT NUMBER 3612122232/03	
SAMPLE ID MPDP 21600012XX	SAMPLE TIME 10:20

SAMPLE LOCATION DP-216	DATE 6-12-12 JDL
START TIME 10:30	END TIME 10:20
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

☒ DISCRETE
☐ COMPOSITE

QC SAMPLES

☒ DUPLICATE
☐ EQ BLK

MS/MSD:

☒ YES
☐ NO

SAMPLE INTERVAL:

TOP Surface (0")
BOTTOM 2"

TYPE OF MATERIAL:

☐ ORGANIC
☒ SAND
☐ GRAVEL
☐ CLAY
☒ FILL
☐ OTHER

COLLECTION EQUIPMENT

☐ HAND AUGER/CORER
☐ S.S. SPLIT BARREL
☐ ALUMINIUM PAN
☒ S.S. SHOVEL
☒ HAND SPOON/SPATULA
☐ S.S. BUCKET
☐ OTHER

DECON FLUIDS USED

☐ ALL USED
☒ LIQUINOX/DI H₂O SOLUTION
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ 25% METHANOL/75% ASTM TYPE II H₂O
☐ ETHYL ALCOHOL

SAMPLE OBSERVATIONS

ODOR
COLOR DK. GR.
OTHER
PID

FIELD SKETCH SHOWN/ATTACHED

☒ YES
☐ NO

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/>	PCB/Percent Solids	8082A	4°C	(1) 4oz Amber Jar	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	BTEX	5035A/8260C	MeOH/HClO	3x40 mL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7/11/12
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

NOTES

Collect sample MPDP21600012XX 4
Dup MPDP21600012XD 4
MS MPDP21600012MS 4
MSD MPDP21600012MSD 4

SKETCH

Sampler Signature

Thomas D. Longley

Print Name:

Thomas D. Longley

Checked By:

Date:

7/11/12

FIGURE 4.12
SURFACE SOIL SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

SURFACE SOIL SAMPLING RECORD



PROJECT NAME 3456 Onelda Street Site - PDI Phase III	
PROJECT NUMBER 3612122232/03	
SAMPLE ID MPDP 217 000 12 XX	SAMPLE TIME 11:20

SAMPLE LOCATION DP-217	DATE 6-12-12
START TIME 11:15	END TIME 11:20
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

<input checked="" type="checkbox"/>	DISCRETE
<input type="checkbox"/>	COMPOSITE

QC SAMPLES

<input type="checkbox"/>	DUPLICATE	<u> </u>
<input type="checkbox"/>	EQ BLK	<u> </u>

MS/MSD:

<input type="checkbox"/>	YES
<input checked="" type="checkbox"/>	NO

SAMPLE INTERVAL:

TOP	<u>Surface (0")</u>
BOTTOM	<u>2"</u>

TYPE OF MATERIAL:

<input type="checkbox"/>	ORGANIC
<input checked="" type="checkbox"/>	SAND
<input checked="" type="checkbox"/>	GRAVEL
<input type="checkbox"/>	CLAY
<input type="checkbox"/>	FILL
<input type="checkbox"/>	OTHER <u> </u>

COLLECTION EQUIPMENT

<input type="checkbox"/>	HAND AUGER/CORER
<input type="checkbox"/>	S.S. SPLIT BARREL
<input type="checkbox"/>	ALUMINIUM PAN
<input checked="" type="checkbox"/>	S.S. SHOVEL
<input checked="" type="checkbox"/>	HAND SPOON/SPATULA
<input type="checkbox"/>	S.S. BUCKET
<input type="checkbox"/>	OTHER <u> </u>

SAMPLE OBSERVATIONS

ODOR	<u> </u>
COLOR	<u> </u>
OTHER	<u> </u>
PID	<u> </u>

DECON FLUIDS USED

<input type="checkbox"/>	ALL USED
<input checked="" type="checkbox"/>	LIQUINOX/DI H ₂ O SOLUTION
<input checked="" type="checkbox"/>	DEIONIZED WATER
<input type="checkbox"/>	POTABLE WATER
<input type="checkbox"/>	NITRIC ACID
<input type="checkbox"/>	HEXANE
<input type="checkbox"/>	25% METHANOL/75% ASTM TYPE II H ₂ O
<input type="checkbox"/>	ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

<input type="checkbox"/>	YES
<input checked="" type="checkbox"/>	NO

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/>	PCB/Percent Solids	8082A	4°C	(1) 4oz Amber Jar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u> </u>
<input checked="" type="checkbox"/>	BTEX	5035A/8260 C	MeOH, H₂O	3x40mL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u> </u> @ 7/11/12
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

NOTES

SKETCH

Sampler Signature:

Thomas D. Longley

Print Name:

Thomas D. Longley

Checked By:

[Signature]

Date:

7/11/12

FIGURE 4.12
SURFACE SOIL SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN



MACTEC
511 Congress Street, Portland Maine 0410

511 Congress Street, Portland Maine 04101

PROJECT NAME	
3456 Onelda Street Site - PDI Phase III	
PROJECT NUMBER	
3612122232/03	
SAMPLE ID	SAMPLE TIME
MPD 218 000/2XX	11:48

SAMPLE LOCATION DP-318	DATE 6-12-10
START TIME 11:40	END TIME 11:48
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

X	DISCRETE
	COMPOSITE

QC SAMPLES

DPLICATE _____
 EQ BLK _____

MS/MSD:

YES
NO ☒

SAMPLE INTERVAL:

TOP	Surface (0")
BOTTOM	2"

TYPE OF MATERIAL:

	ORGANIC
✓	SAND
✓	GRAVEL
	CLAY
✓	FILL
	OTHER

COLLECTION EQUIPMENT

	HAND AUGER/CORER
	S.S. SPLIT BARREL
	ALUMINIUM PAN
✓	S.S. SHOVEL
✓	HAND SPOON/SPATULA
	S.S. BUCKET
	OTHER

SAMPLE OBSERVATIONS

ODOR, Black color
COLOR ✓ no odor
OTHER —
PID —

DECON FLUIDS USED

	ALL USED
○	LIQUINOX/DI H ₂ O SOLUTION
✓	DEIONIZED WATER
	POTABLE WATER
	NITRIC ACID
	HEXANE
	25% METHANOL/75% ASTM TYPE II H ₂ O
	ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

	YES
<input checked="" type="checkbox"/>	NO

ANALYTICAL PARAMETERS

[illegible]

NOTES

SKETCH

Sampler Signature _____

Print Name:

Date:

FIGURE 4.12
SURFACE SOIL SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

SURFACE SOIL SAMPLING RECORD



PROJECT NAME 3456 Oneida Street Site - PDI Phase III	
PROJECT NUMBER 3612122232/03	
SAMPLE ID MPDP 219 000 12 XX	SAMPLE TIME 12:20

SAMPLE LOCATION DP-219	DATE 6-12-12
START TIME 12:15	END TIME 12:25
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

<input checked="" type="checkbox"/>	DISCRETE
<input type="checkbox"/>	COMPOSITE

QC SAMPLES

<input type="checkbox"/>	DUPLICATE	_____
<input type="checkbox"/>	EQ BLK	_____

MS/MSD:

<input checked="" type="checkbox"/>	YES
<input type="checkbox"/>	NO

SAMPLE INTERVAL:

TOP	Surface (0")
BOTTOM	2"

TYPE OF MATERIAL:

<input type="checkbox"/>	ORGANIC
<input checked="" type="checkbox"/>	SAND
<input checked="" type="checkbox"/>	GRAVEL
<input type="checkbox"/>	CLAY
<input checked="" type="checkbox"/>	FILL
<input type="checkbox"/>	OTHER _____

COLLECTION EQUIPMENT

<input type="checkbox"/>	HAND AUGER/CORER
<input type="checkbox"/>	S.S. SPLIT BARREL
<input type="checkbox"/>	ALUMINIUM PAN
<input checked="" type="checkbox"/>	S.S. SHOVEL
<input checked="" type="checkbox"/>	HAND SPOON/SPATULA
<input type="checkbox"/>	S.S. BUCKET
<input type="checkbox"/>	OTHER _____

SAMPLE OBSERVATIONS

ODOR	No
COLOR	DK. Bwn.
OTHER	_____
PID	_____

DECON FLUIDS USED

<input checked="" type="checkbox"/>	ALL USED
<input checked="" type="checkbox"/>	LIQUINOX/DI H ₂ O SOLUTION
<input type="checkbox"/>	DEIONIZED WATER
<input type="checkbox"/>	POTABLE WATER
<input type="checkbox"/>	NITRIC ACID
<input type="checkbox"/>	HEXANE
<input type="checkbox"/>	25% METHANOL/75% ASTM TYPE II H ₂ O
<input type="checkbox"/>	ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

<input checked="" type="checkbox"/>	YES
<input type="checkbox"/>	NO

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/>	PCB/Percent Solids	8082A	4°C	(1) 4oz Amber Jar	Yes	—	—
<input checked="" type="checkbox"/>	BTEX	5035A / 8260C	MeOH	3 x 40mL	Y	—	—
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

NOTES

SKETCH

Sampler Signature:

Print Name:

Checked By:

Date:

FIGURE 4.12
SURFACE SOIL SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

SURFACE SOIL SAMPLING RECORD



PROJECT NAME 3456 Oneida Street Site - PDI Phase III	
PROJECT NUMBER 3612122232/03	
SAMPLE ID MPDP 22000012XX	SAMPLE TIME 12:35

SAMPLE LOCATION DP-220	DATE 6-12-12
START TIME 12:05	END TIME 12:35
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

<input checked="" type="checkbox"/>	DISCRETE
<input type="checkbox"/>	COMPOSITE

QC SAMPLES

<input type="checkbox"/>	DUPLICATE	<u> </u>
<input type="checkbox"/>	EQ BLK	<u> </u>

MS/MSD:

<input checked="" type="checkbox"/>	YES
<input type="checkbox"/>	NO

SAMPLE INTERVAL:

TOP	<u>Surface (0")</u>
BOTTOM	<u>2"</u>

TYPE OF MATERIAL:

<input type="checkbox"/>	ORGANIC
<input checked="" type="checkbox"/>	SAND
<input checked="" type="checkbox"/>	GRAVEL
<input type="checkbox"/>	CLAY
<input checked="" type="checkbox"/>	FILL
<input type="checkbox"/>	OTHER <u> </u>

COLLECTION EQUIPMENT

<input type="checkbox"/>	HAND AUGER/CORER
<input type="checkbox"/>	S.S. SPLIT BARREL
<input type="checkbox"/>	ALUMINIUM PAN
<input type="checkbox"/>	S.S. SHOVEL
<input checked="" type="checkbox"/>	HAND SPOON/SPATULA
<input type="checkbox"/>	S.S. BUCKET
<input type="checkbox"/>	OTHER <u> </u>

SAMPLE OBSERVATIONS

ODOR	<u>NONE</u>
COLOR	<u> </u>
OTHER	<u> </u>
PID	<u> </u>

DECON FLUIDS USED

<input type="checkbox"/>	ALL USED
<input checked="" type="checkbox"/>	LIQUINOX/DI H ₂ O SOLUTION
<input checked="" type="checkbox"/>	DEIONIZED WATER
<input type="checkbox"/>	POTABLE WATER
<input type="checkbox"/>	NITRIC ACID
<input type="checkbox"/>	HEXANE
<input type="checkbox"/>	25% METHANOL/75% ASTM TYPE II H ₂ O
<input type="checkbox"/>	ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

<input checked="" type="checkbox"/>	YES
<input type="checkbox"/>	NO

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/>	PCB/Percent Solids	8082A	4°C	(1) 4oz Amber Jar	<u>yes</u>	<u> </u>	<u> </u>
<input checked="" type="checkbox"/>	<u>BTEX</u>	<u>5035 + 8260C</u>	<u>MeOH</u>	<u>3 x 40 mL</u>	<u> </u>	<u> </u>	<u> </u>
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

NOTES

SKETCH

Sampler Signature:

Thomas D. Longley

Print Name:

Thomas D. Longley

Checked By:

Date: 7/11/12

FIGURE 4.12
SURFACE SOIL SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

SURFACE SOIL SAMPLING RECORD



PROJECT NAME 3456 Oneida Street Site - PDI Phase III	
PROJECT NUMBER 3612122232/03	
SAMPLE ID MPDP 222 00012XX	SAMPLE TIME 13:50

SAMPLE LOCATION DP-221	DATE 6-12-12
START TIME 13:45	END TIME 13:50
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

☒ DISCRETE
☐ COMPOSITE

QC SAMPLES

☐ DUPLICATE _____
☐ EQ BLK _____

MS/MSD:

☐ YES
☒ NO

SAMPLE INTERVAL:

TOP Surface (0")
 BOTTOM 2"

TYPE OF MATERIAL:

☐ ORGANIC
☒ SAND
☐ GRAVEL
☒ CLAY
☐ FILL
☐ OTHER _____

COLLECTION EQUIPMENT

☐ HAND AUGER/CORER
☐ S.S. SPLIT BARREL
☐ ALUMINIUM PAN
☐ S.S. SHOVEL
☒ HAND SPOON/SPATULA
☐ S.S. BUCKET
☐ OTHER _____

SAMPLE OBSERVATIONS

ODOR **NONE**
 COLOR _____
 OTHER _____
 PID _____

DECON FLUIDS USED

☐ ALL USED
☒ LIQUINOX/DI H₂O SOLUTION
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ 25% METHANOL/75% ASTM TYPE II H₂O
☐ ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

☐ YES
☒ NO

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> PCB/Percent Solids	8082A	4°C	(1) 4oz Amber Jar	yes	—	—

NOTES

SKETCH

Sampler Signature:

[Signature]

Print Name:

Thomas D. Longley

Checked By:

[Signature]

Date:

8/11/12

FIGURE 4.12
SURFACE SOIL SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN



MACTEC
511 Congress Street, Portland Maine 04101

511 Congress Street, Portland Maine 04101

PROJECT NAME	
3456 Onelda Street Site - PDI Phase III	
PROJECT NUMBER	
3612122232/03	
SAMPLE ID	SAMPLE TIME
M PDP 222 00012 XX	14:04


SAMPLE LOCATION DP-222	DATE 6-12-12
START TIME 1355	END TIME 14:04
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

X	DISCRETE
	COMPOSITE

QC SAMPLES

	DUPLICATE	
	EQ BLK	

MS/MSD:

YES
NO

SAMPLE INTERVAL:

TOP Surface (0")
BOTTOM 2"

TYPE OF MATERIAL:

<input checked="" type="checkbox"/>	ORGANIC
<input checked="" type="checkbox"/>	SAND
<input checked="" type="checkbox"/>	GRAVEL
<input type="checkbox"/>	CLAY
<input checked="" type="checkbox"/>	FILL
<input type="checkbox"/>	OTHER _____

COLLECTION EQUIPMENT

<input type="checkbox"/>	HAND AUGER/CORER
<input type="checkbox"/>	S.S. SPLIT BARREL
<input type="checkbox"/>	ALUMINIUM PAN
<input checked="" type="checkbox"/>	S.S. SHOVEL
<input type="checkbox"/>	HAND SPOON/SPATULA
<input type="checkbox"/>	S.S. BUCKET
<input type="checkbox"/>	OTHER

SAMPLE OBSERVATIONS

ODOR
COLOR Dr. Brown
OTHER
PID

DECON FLUIDS USED

	ALL USED
<input checked="" type="checkbox"/>	M/QUINOX/DI H ₂ O SOLUTION
<input checked="" type="checkbox"/>	DEIONIZED WATER
	POTABLE WATER
	NITRIC ACID
	HEXANE
	25% METHANOL/75% ASTM TYPE II H ₂ O
	ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

	YES
NO	NO

ANALYTICAL PARAMETERS

[illegible]

NOTES

SKETCH

Sampler Signature:

Print Name:

Checked By:

Date:

FIGURE 4.12

SURFACE SOIL SAMPLING RECORD

NYSDEC QUALITY ASSURANCE PROJECT PLAN

SURFACE SOIL SAMPLING RECORD



PROJECT NAME 3456 Oneida Street Site - PDI Phase III	
PROJECT NUMBER 3612122232/03	
SAMPLE ID MPDP 223 00012XX	SAMPLE TIME 1435

SAMPLE LOCATION DP-223	DATE 6-12-12
START TIME 14:25	END TIME 14:35
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

☒ DISCRETE
☐ COMPOSITE

QC SAMPLES

☒ DUPLICATE
☐ EQ BLK

M&MSD:
☒ YES
☒ NO

SAMPLE INTERVAL:

TOP Surface (0")
 BOTTOM 2"

TYPE OF MATERIAL:

☐ ORGANIC
☒ SAND
☐ GRAVEL
☐ CLAY
☒ FILL
☐ OTHER

COLLECTION EQUIPMENT

☐ HAND AUGER/CORER
☐ S.S. SPLIT BARREL
☐ ALUMINIUM PAN
☒ S.S. SHOVEL
☒ HAND SPOON/SPATULA
☐ S.S. BUCKET
☐ OTHER

DECON FLUIDS USED

☐ ALL USED
☒ LIQUINOX/DI H₂O SOLUTION
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ 25% METHANOL/75% ASTM TYPE II H₂O
☐ ETHYL ALCOHOL

SAMPLE OBSERVATIONS

ODOR None
 COLOR _____
 OTHER _____
 PID _____

FIELD SKETCH SHOWN/ATTACHED

☒ YES
☐ NO

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/>	PCB/Percent Solids	8082A	4°C	(1) 4oz Amber Jar	<u>yes</u>	<u>yes</u>	-
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

NOTES

Area is underlain by Tar

SKETCH

Sampler Signature

[Signature]

Print Name:

Thomas D. Longley

Checked By:

Date:

7/11/12

FIGURE 4.12
 SURFACE SOIL SAMPLING RECORD
 NYSDEC QUALITY ASSURANCE PROJECT PLAN



MACTEC
511 Congress Street, Portland Maine 04101

511 Congress Street, Portland Maine 04101

PROJECT NAME	
3456 Onelda Street Site - PDI Phase III	
PROJECT NUMBER	
3612122232/03	
SAMPLE ID	SAMPLE TIME
MPDP22400012XX	14:55

SAMPLE LOCATION DP-224	DATE 6-12-12
START TIME 14:40	END TIME 14:55
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

X	DISCRETE
	COMPOSITE

QC SAMPLES

[] DUPLICATE
 [] EQ BLK

MS/MSD;

☒ YES
☐ NO

SAMPLE INTERVAL:

TOP Surface (0")
BOTTOM 2"

TYPE OF MATERIAL:

<input checked="" type="checkbox"/>	ORGANIC
<input checked="" type="checkbox"/>	SAND
<input checked="" type="checkbox"/>	GRAVEL
<input type="checkbox"/>	CLAY
<input checked="" type="checkbox"/>	FILL
<input type="checkbox"/>	OTHER _____

COLLECTION EQUIPMENT

<input type="checkbox"/>	HAND AUGER/CORER
<input type="checkbox"/>	S.S. SPLIT BARREL
<input type="checkbox"/>	ALUMINIUM PAN
<input type="checkbox"/>	S.S. SHOVEL
<input checked="" type="checkbox"/>	HAND SPOON/SPATULA
<input type="checkbox"/>	S.S. BUCKET
<input type="checkbox"/>	OTHER

SAMPLE OBSERVATIONS

ODOR None
COLOR /
OTHER /
PID /

DECON FLUIDS USED

	ALL USED
✓	LIQUINOX/DI H ₂ O SOLUTION
✓	DEIONIZED WATER
	POTABLE WATER
	NITRIC ACID
	HEXANE
	25% METHANOL/75% ASTM TYPE II H ₂ O
	ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

YES
NO

ANALYTICAL PARAMETERS

[illegible]

NOTES

SKETCH

Sampler Signature:

Print Name: _____

Date: _____

FIGURE 4.12
SURFACE SOIL SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

SURFACE SOIL SAMPLING RECORD



511 Congress Street, Portland Maine 04101

PROJECT NAME 3456 Onelda Street Site - PDI Phase III	
PROJECT NUMBER 3612122232/03	
SAMPLE ID M PDP 22500012XX	SAMPLE TIME 15:05

SAMPLE LOCATION DP-225	DATE 6-12-12
START TIME 14:40	END TIME 15:05
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

☒ DISCRETE
☐ COMPOSITE

QC SAMPLES

☐ DUPLICATE **→**
☐ EQ BLK **→**

MS/MSD:

☐ YES
☒ NO **Q**

SAMPLE INTERVAL:

TOP Surface (0")
BOTTOM 2"

TYPE OF MATERIAL:

☒ ORGANIC
☒ SAND
☒ GRAVEL
☐ CLAY
☒ FILL
☐ OTHER _____

COLLECTION EQUIPMENT

☐ HAND AUGER/CORER
☐ S.S. SPLIT BARREL
☐ ALUMINIUM PAN
☐ S.S. SHOVEL
☒ HAND SPOON/SPATULA
☐ S.S. BUCKET
☐ OTHER _____

SAMPLE OBSERVATIONS

ODOR NONE
COLOR —
OTHER —
PID —

DECON FLUIDS USED

☐ ALL USED
☒ LIQUINOX/DI H₂O SOLUTION
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ 25% METHANOL/75% ASTM TYPE II H₂O
☐ ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

☐ YES
☒ NO **Q**

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/>	PCB/Percent Solids	8082A	4°C	(1) 4oz Amber Jar	yes	—	—
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

NOTES

Took sample off of
Concrete pad, ~ 3' EAST
OF BORING

SKETCH

Sampler Signature:

Thomas D. Longley

Print Name:

Thomas D. Longley

Checked By:

Date:

7/11/12

FIGURE 4.12
SURFACE SOIL SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN



MACTEC
511 Congress Street, Portland Maine 04101

511 Congress Street, Portland Maine 04101

PROJECT NAME	
3456 Onelda Street Site - PDI Phase III	
PROJECT NUMBER	
3612122232/03	
SAMPLE ID	SAMPLE TIME
MPDP22600012XX	15:26

SAMPLE LOCATION MP DP-226	DATE 6-12-12
START TIME 15:15	END TIME 15:26
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

TYPE OF SAMPLE

X	DISCRETE
	COMPOSITE

QC SAMPLES

☐ DUPLICATE
☐ EQ BLK

MS/MSD:

☒ YES ☐ NO (14)

SAMPLE INTERVAL:

TOP	Surface (0")
BOTTOM	2"

TYPE OF MATERIAL:

	ORGANIC
✓	SAND
✓	GRAVEL
	CLAY
✓	FILL
	OTHER

COLLECTION EQUIPMENT

	HAND AUGER/CORER
	S.S. SPLIT BARREL
	ALUMINIUM PAN
	S.S. SHOVEL
<input checked="" type="checkbox"/>	HAND SPOON/SPATULA
	S.S. BUCKET
	OTHER

SAMPLE OBSERVATIONS

ODOR NONE
COLOR /
OTHER /
PID

DECON FLUIDS USED

	ALL USED
	LIQUINOX/DI H ₂ O SOLUTION
✓	DEIONIZED WATER
✓	POTABLE WATER
	NITRIC ACID
	HEXANE
	25% METHANOL/75% ASTM TYPE II H ₂ O
	ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

(b) ☒ YES ☐ NO

ANALYTICAL PARAMETERS

[illegible]

NOTES

washed sediment on top of asphalt
drive/parking area

SKETCH

Sampler Signature

Print Name: _____

Date:

Date: 7/11/12

FIGURE 4.12

SURFACE SOIL SAMPLING RECORD

NYSDEC QUALITY ASSURANCE PROJECT PLAN

SURFACE SOIL SAMPLING RECORD



511 Congress Street, Portland Maine 04101

PROJECT NAME 3456 Onelda Street Site - PDI Phase III	
PROJECT NUMBER 3612122232/03	
SAMPLE ID MP DP 227 00012XX	SAMPLE TIME 15:45

SAMPLE LOCATION DP-227	DATE 6-12-12
START TIME 15:35	END TIME 15:45
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

<input checked="" type="checkbox"/>	DISCRETE
<input type="checkbox"/>	COMPOSITE

QC SAMPLES

<input type="checkbox"/>	DUPLICATE	→
<input type="checkbox"/>	EQ BLK	→

MS/MSD:

<input type="checkbox"/>	YES
<input checked="" type="checkbox"/>	NO

SAMPLE INTERVAL:

TOP	<u>Surface (0")</u>
BOTTOM	<u>2"</u>

TYPE OF MATERIAL:

<input type="checkbox"/>	ORGANIC
<input checked="" type="checkbox"/>	SAND
<input type="checkbox"/>	GRAVEL
<input type="checkbox"/>	CLAY
<input checked="" type="checkbox"/>	FILL
<input checked="" type="checkbox"/>	OTHER <u>SILT</u>

COLLECTION EQUIPMENT

<input type="checkbox"/>	HAND AUGER/CORER
<input type="checkbox"/>	S.S. SPLIT BARREL
<input type="checkbox"/>	ALUMINIUM PAN
<input type="checkbox"/>	S.S. SHOVEL
<input checked="" type="checkbox"/>	HAND SPOON/SPATULA
<input type="checkbox"/>	S.S. BUCKET
<input type="checkbox"/>	OTHER

SAMPLE OBSERVATIONS

ODOR	_____
COLOR	_____
OTHER	_____
PID	_____

DECON FLUIDS USED

<input type="checkbox"/>	ALL USED
<input checked="" type="checkbox"/>	LIQUINOX/DI H ₂ O SOLUTION
<input checked="" type="checkbox"/>	DEIONIZED WATER
<input type="checkbox"/>	POTABLE WATER
<input type="checkbox"/>	NITRIC ACID
<input type="checkbox"/>	HEXANE
<input type="checkbox"/>	25% METHANOL/75% ASTM TYPE II H ₂ O
<input type="checkbox"/>	ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

<input checked="" type="checkbox"/>	YES
<input type="checkbox"/>	NO

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/>	PCB/Percent Solids	8082A	4°C	(1) 4oz Amber Jar	yes	No	_____
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

NOTES

Washed material on top of paved surface

SKETCH

Sampler Signature: *[Signature]*

Print Name: *Thomas D. Langley*

Checked By: *[Signature]*

Date: *7/11/12*

FIGURE 4.12
SURFACE SOIL SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

511 Congress Street, Portland Maine 04101

SAMPLE LOCATION DP-228	DATE 6-15-12
START TIME 15:50	END TIME 16:02
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

TYPE OF SAMPLE

OC SAMPLES

MS/MSD:

SAMPLE INTERVAL:

TYPE OF MATERIAL:

COLLECTION EQUIPMENT

SAMPLE OBSERVATIONS

DECON FLUIDS USED

FIELD SKETCH SHOWN/ATTACHED

☐ YES
☒ NO

[illegible]

deposited soil on top of turned surface

SKETCH

Sampler Signature

Print Name: _____

Print Name: Thomas D. Longley

Date: 7/11/2012

FIGURE 4.12
SURFACE SOIL SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

SURFACE SOIL SAMPLING RECORD



PROJECT NAME 3456 Oneida Street Site - PDI Phase III	
PROJECT NUMBER 3612122232/03	
SAMPLE ID MPDP22900012 XX	SAMPLE TIME 16:18

SAMPLE LOCATION DP-229	DATE 6-13-12
START TIME 16:05	END TIME 16:18
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

☒ DISCRETE
☐ COMPOSITE

QC SAMPLES

☐ DUPLICATE
☐ EQ BLK

MS/MSD:
☐ YES
☒ NO

SAMPLE INTERVAL:

TOP Surface (0")
 BOTTOM 2"

TYPE OF MATERIAL:

☐ ORGANIC
☒ SAND
☒ GRAVEL
☒ CLAY
☐ FILL
☐ OTHER

COLLECTION EQUIPMENT

☐ HAND AUGER/CORER
☐ S.S. SPLIT BARREL
☐ ALUMINIUM PAN
☐ S.S. SHOVEL
☒ HAND SPOON/SPATULA
☐ S.S. BUCKET
☐ OTHER

SAMPLE OBSERVATIONS

ODOR NONE
 COLOR /
 OTHER /
 PID /

DECON FLUIDS USED

☐ ALL USED
☒ LIQUINOX/DI H₂O SOLUTION
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ 25% METHANOL/75% ASTM TYPE II H₂O
☐ ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

☒ YES
☐ NO

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> PCB/Percent Solids	8082A	4°C	(1) 4oz Amber Jar	<u>Yes</u>	<u>No</u>	<u>/</u>

NOTES

Sample from sediment from a
top of tarred Area

SKETCH

Sampler Signature

[Signature]

Print Name:

Thomas D. Longley

Checked By:

Date:

7/11/12

FIGURE 4.12
 SURFACE SOIL SAMPLING RECORD
 NYSDEC QUALITY ASSURANCE PROJECT PLAN

SURFACE SOIL SAMPLING RECORD



PROJECT NAME 3456 Onelda Street Site - PDI Phase III	
PROJECT NUMBER 3612122232/03	
SAMPLE ID MPDP 23000012 XX	SAMPLE TIME 08:45

SAMPLE LOCATION BP-230	DATE 6-13-12
START TIME 0830	END TIME 0845
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

☒ DISCRETE
☐ COMPOSITE

QC SAMPLES

☒ DUPLICATE
☐ EQ BLK

MS/MSD:

☒ YES
☒ NO

SAMPLE INTERVAL:

TOP Surface (0")
 BOTTOM 2"

TYPE OF MATERIAL:

☐ ORGANIC
☒ SAND
☒ GRAVEL
☐ CLAY
☒ FILL
☐ OTHER

COLLECTION EQUIPMENT

☐ HAND AUGER/CORER
☐ S.S. SPLIT BARREL
☐ ALUMINIUM PAN
☐ S.S. SHOVEL
☒ HAND SPOON/SPATULA
☐ S.S. BUCKET
☐ OTHER

DECON FLUIDS USED

☐ ALL USED
☒ LIQUINOX/DI H₂O SOLUTION
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ 25% METHANOL/75% ASTM TYPE II H₂O
☐ ETHYL ALCOHOL

SAMPLE OBSERVATIONS

ODOR None
 COLOR
 OTHER
 PID

FIELD SKETCH SHOWN/ATTACHED

☒ YES
☐ NO

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> PCB/Percent Solids	8082A	4°C	(1) 4oz Amber Jar	<u>yes</u>	<u>yes</u>	<u> </u>
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						

NOTES

Sample w/ Deep
 MS
 MSD
 collected
 4-Jars

No turned surface here

SKETCH

Sampler Signature:

Thomas D. Longley

Print Name:

Thomas D. Longley

Checked By:

Date: 8/11/12

FIGURE 4.12
 SURFACE SOIL SAMPLING RECORD
 NYSDEC QUALITY ASSURANCE PROJECT PLAN

SURFACE SOIL SAMPLING RECORD



PROJECT NAME 3456 Onelda Street Site - PDI Phase III	
PROJECT NUMBER 3612122232/03	
SAMPLE ID MPDP23100012XX	SAMPLE TIME 0910

SAMPLE LOCATION DP-231	DATE 6-13-12
START TIME 0900	END TIME 0910
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

<input checked="" type="checkbox"/>	DISCRETE
<input type="checkbox"/>	COMPOSITE

QC SAMPLES

<input type="checkbox"/>	DUPLICATE	<u> </u>
<input type="checkbox"/>	EQ BLK	<u> </u>

MS/MSD:

<input type="checkbox"/>	YES
<input checked="" type="checkbox"/>	NO

SAMPLE INTERVAL:

TOP	<u>Surface (0")</u>
BOTTOM	<u>2"</u>

TYPE OF MATERIAL:

<input type="checkbox"/>	ORGANIC
<input checked="" type="checkbox"/>	SAND
<input checked="" type="checkbox"/>	GRAVEL
<input type="checkbox"/>	CLAY
<input checked="" type="checkbox"/>	FILL
<input type="checkbox"/>	OTHER <u> </u>

COLLECTION EQUIPMENT

<input type="checkbox"/>	HAND AUGER/CORER
<input type="checkbox"/>	S.S. SPLIT BARREL
<input type="checkbox"/>	ALUMINIUM PAN
<input type="checkbox"/>	S.S. SHOVEL
<input checked="" type="checkbox"/>	HAND SPOON/SPATULA
<input type="checkbox"/>	S.S. BUCKET
<input type="checkbox"/>	OTHER <u> </u>

SAMPLE OBSERVATIONS

ODOR	<u>OLD Fuel odor</u>
COLOR	<u>black</u>
OTHER	<u> </u>
PID	<u>0.0</u>

DECON FLUIDS USED

<input type="checkbox"/>	ALL USED
<input checked="" type="checkbox"/>	LIQUINOX/DI H ₂ O SOLUTION
<input checked="" type="checkbox"/>	DEIONIZED WATER
<input type="checkbox"/>	POTABLE WATER
<input type="checkbox"/>	NITRIC ACID
<input type="checkbox"/>	HEXANE
<input type="checkbox"/>	25% METHANOL/75% ASTM TYPE II H ₂ O
<input type="checkbox"/>	ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

<input type="checkbox"/>	YES
<input checked="" type="checkbox"/>	NO

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/>	PCB/Percent Solids	8082A	4°C	(1) 4oz Amber Jar	<u>yes</u>	<u>no</u>	<u> </u>
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

NOTES

No Asphalt

SKETCH

Sampler Signature

Thomas D. Longley

Print Name:

Thomas D. Longley

Checked By:

[Signature]

Date:

7/11/12

SURFACE SOIL SAMPLING RECORD



PROJECT NAME 3456 Onelda Street Site - PDI Phase III	
PROJECT NUMBER 3612122232/03	
SAMPLE ID MPDP 232 00017 XX	SAMPLE TIME 0925

SAMPLE LOCATION DP-232	DATE 6-13-12
START TIME 09 15	END TIME 0925
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

<input checked="" type="checkbox"/>	DISCRETE
<input type="checkbox"/>	COMPOSITE

QC SAMPLES

<input type="checkbox"/>	DUPLICATE	<u> </u>
<input type="checkbox"/>	EQ BLK	<u> </u>

MS/MSD:

<input type="checkbox"/>	YES
<input checked="" type="checkbox"/>	NO

SAMPLE INTERVAL:

TOP	Surface (0")
BOTTOM	2"

TYPE OF MATERIAL:

<input type="checkbox"/>	ORGANIC
<input checked="" type="checkbox"/>	SAND
<input type="checkbox"/>	GRAVEL
<input type="checkbox"/>	CLAY
<input checked="" type="checkbox"/>	FILL
<input type="checkbox"/>	OTHER

COLLECTION EQUIPMENT

<input type="checkbox"/>	HAND AUGER/CORER
<input type="checkbox"/>	S.S. SPLIT BARREL
<input type="checkbox"/>	ALUMINIUM PAN
<input type="checkbox"/>	S.S. SHOVEL
<input checked="" type="checkbox"/>	HAND SPOON/SPATULA
<input type="checkbox"/>	S.S. BUCKET
<input type="checkbox"/>	OTHER

DECON FLUIDS USED

<input type="checkbox"/>	ALL USED
<input checked="" type="checkbox"/>	LIQUINOX/DI H ₂ O SOLUTION
<input checked="" type="checkbox"/>	DEIONIZED WATER
<input type="checkbox"/>	POTABLE WATER
<input type="checkbox"/>	NITRIC ACID
<input type="checkbox"/>	HEXANE
<input type="checkbox"/>	25% METHANOL/75% ASTM TYPE II H ₂ O
<input type="checkbox"/>	ETHYL ALCOHOL

SAMPLE OBSERVATIONS

ODOR	OLD FUEL ODOR
COLOR	Black - dk grey
OTHER	
PID	5.6

FIELD SKETCH SHOWN/ATTACHED

<input checked="" type="checkbox"/>	YES
<input type="checkbox"/>	NO

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/>	PCB/Percent Solids	8082A	4°C	(1) 4oz Amber Jar	yes	—	—
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

NOTES

SKETCH

Sampler Signature

Print Name:

Checked By:

Date:

FIGURE 4.12
SURFACE SOIL SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

511 Congress Street, Portland Maine 04101

SAMPLE LOCATION DP-233	DATE 6-13-72
START TIME 0935	END TIME 0940
SITE NAME/NUMBER Mullen Property/633049	PAGE (OF 1

TYPE OF SAMPLE

X	DISCRETE
	COMPOSITE

QC SAMPLES

☐ DUPLICATE
☐ EQ BLK

MS/MSD;

☒ YES ☐ NO

SAMPLE INTERVAL:

TOP	Surface (0")
BOTTOM	2"

TYPE OF MATERIAL:

	ORGANIC
✓	SAND
✓	GRAVEL
	CLAY
✓	FILL
	OTHER

COLLECTION EQUIPMENT

<input type="checkbox"/>	HAND AUGER/CORER
<input type="checkbox"/>	S.S. SPLIT BARREL
<input type="checkbox"/>	ALUMINIUM PAN
<input type="checkbox"/>	S.S. SHOVEL
<input checked="" type="checkbox"/>	HAND SPOON/SPATULA
<input type="checkbox"/>	S.S. BUCKET
<input type="checkbox"/>	OTHER

SAMPLE OBSERVATIONS

ODOR NONE
COLOR AK. BAN.
OTHER —
PID 0.0

DECON FLUIDS USED

<input type="checkbox"/>	ALL USED
<input checked="" type="checkbox"/>	LIQUINOX/DI H ₂ O SOLUTION
<input checked="" type="checkbox"/>	DEIONIZED WATER
<input type="checkbox"/>	POTABLE WATER
<input type="checkbox"/>	NITRIC ACID
<input type="checkbox"/>	HEXANE
<input type="checkbox"/>	25% METHANOL/75% ASTM TYPE II H ₂ O
<input type="checkbox"/>	ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

☐ YES
☒ NO

ANALYTICAL PARAMETERS

[illegible]

NOTES

SKETCH

Sampler Signature

Print Name: _____

Print Name: Thomas D. Longley

Checked By:

Date:

7/16/202

FIGURE 4.12
SURFACE SOIL SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

SURFACE SOIL SAMPLING RECORD



PROJECT NAME 3456 Onelda Street Site - PDI Phase III	
PROJECT NUMBER 3612122232/03	
SAMPLE ID MPDP 23400012XX	SAMPLE TIME 0955

SAMPLE LOCATION DP-234	DATE 6-13-12
START TIME 0950	END TIME 0955
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

☒ DISCRETE
☐ COMPOSITE

QC SAMPLES

☐ DUPLICATE
☐ EQ BLK

MS/MSD:

☒ YES
☐ NO **(n)**

SAMPLE INTERVAL:

TOP Surface (0")
BOTTOM 2"

TYPE OF MATERIAL:

☐ ORGANIC
☒ SAND
☒ GRAVEL
☐ CLAY
☒ FILL
☐ OTHER

COLLECTION EQUIPMENT

☐ HAND AUGER/CORER
☐ S.S. SPLIT BARREL
☐ ALUMINIUM PAN
☒ S.S. SHOVEL
☐ HAND SPOON/SPATULA
☐ S.S. BUCKET
☐ OTHER

SAMPLE OBSERVATIONS

ODOR None
COLOR Brown
OTHER
PID 0.4

DECON FLUIDS USED

☐ ALL USED
☒ LIQUINOX/DI H₂O SOLUTION
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ 25% METHANOL/75% ASTM TYPE II H₂O
☐ ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

☒ YES
☐ NO

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
PCB/Percent Solids	8082A	4°C	(1) 4oz Amber Jar	yes	no	<u> </u>

NOTES

No Asphalt in this area

SKETCH

Sampler Signature:

[Signature]

Print Name:

Thomas D. Longley

Checked By:

Date:

7/10/2012

FIGURE 4.12
SURFACE SOIL SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

 **MACTEC**
511 Congress Street, Portland Maine 04101

SAMPLE LOCATION FP-014	DATE 6-13-12
START TIME 10:40	END TIME 10:40
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

☒ YES ☐ NO

See FP-016

Date: 7/16/2012

FIGURE 4.12
SURFACE SOIL SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

SURFACE SOIL SAMPLING RECORD



PROJECT NAME 3456 Oneida Street Site - PDI Phase III	
PROJECT NUMBER 3612122232/03	
SAMPLE ID MPFP016 001 12XX	SAMPLE TIME 10:50

SAMPLE LOCATION FP-016	DATE 6-13-12
START TIME 10:50	END TIME 10:50
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

<input checked="" type="checkbox"/>	DISCRETE
<input type="checkbox"/>	COMPOSITE

QC SAMPLES

<input type="checkbox"/>	DUPLICATE
<input type="checkbox"/>	EQ BLK

MS/MSD:

<input checked="" type="checkbox"/>	YES
<input type="checkbox"/>	NO

SAMPLE INTERVAL:

TOP	Surface (0")
BOTTOM	2"

TYPE OF MATERIAL:

<input type="checkbox"/>	ORGANIC
<input checked="" type="checkbox"/>	SAND
<input checked="" type="checkbox"/>	GRAVEL
<input type="checkbox"/>	CLAY
<input type="checkbox"/>	FILL
<input type="checkbox"/>	OTHER

COLLECTION EQUIPMENT

<input type="checkbox"/>	HAND AUGER/CORER
<input type="checkbox"/>	S.S. SPLIT BARREL
<input type="checkbox"/>	ALUMINIUM PAN
<input type="checkbox"/>	S.S. SHOVEL
<input checked="" type="checkbox"/>	HAND SPOON/SPATULA
<input type="checkbox"/>	S.S. BUCKET
<input type="checkbox"/>	OTHER

SAMPLE OBSERVATIONS

ODOR	None
COLOR	Blk. to yellow brn.
OTHER	
PID	Blk.

DECON FLUIDS USED

<input type="checkbox"/>	ALL USED
<input checked="" type="checkbox"/>	LIQUINOX/DI H ₂ O SOLUTION
<input checked="" type="checkbox"/>	DEIONIZED WATER
<input type="checkbox"/>	POTABLE WATER
<input type="checkbox"/>	NITRIC ACID
<input type="checkbox"/>	HEXANE
<input type="checkbox"/>	25% METHANOL/75% ASTM TYPE II H ₂ O
<input type="checkbox"/>	ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

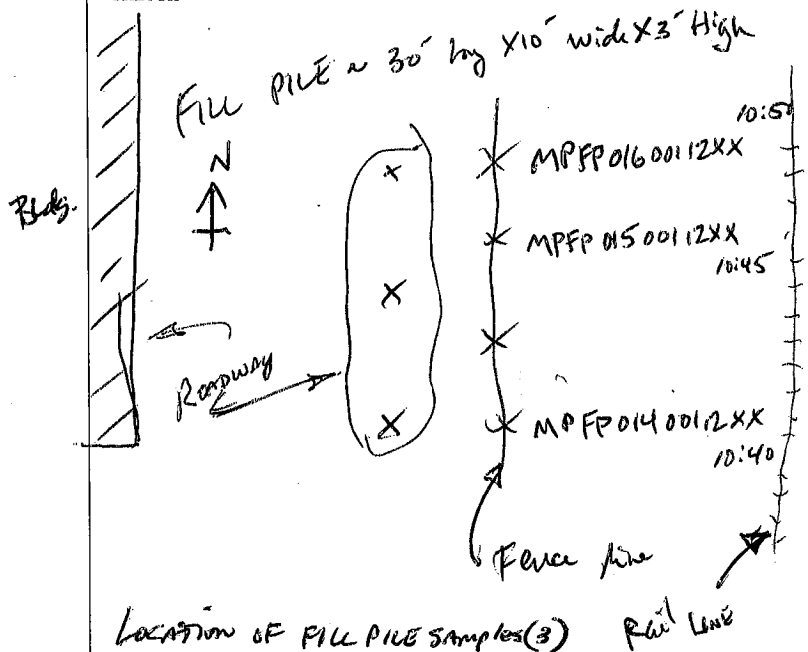
<input checked="" type="checkbox"/>	YES
<input type="checkbox"/>	NO

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> PCB/Percent Solids	8082A	4°C	(1) 4oz Amber Jar	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

NOTES

SKETCH



Sampler Signature:

Thomas D. Longley

Print Name:

Thomas D. Longley

Checked By:

Date:

7/16/2011

FIGURE 4.12
SURFACE SOIL SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN



MACTEC

Boring ID: DP-216

Page No. /

of:)

Bore Hole ID/OD: 4"

Casing Size: 4"

Sampler:	Macrocore
----------	-----------

Sampler ID/OD: 2"/4"

Hammer Wt/Fall:	NA
-----------------	----

Hammer Type:	Percussion
--------------	------------

NOTES: ☒ INDICATEU INTERVAL SUBMITTED TO LAB FOR POTENTIAL ANALYSIS

FIGURE 4.4
SOIL BORING LOG
CE PROGRAM PLAN

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name:	3456 Oneida Street Site - PDI Phase III	Boring ID:	DP-217
Project Location:	New Hartford, New York	Page No.	1
Project No.:	3612122232/03	Client:	NYSDEC
		of:	1
Boring Location:	See Site Plan	Refusal Depth:	NA
Weather:	RAIN, 60'S	Total Depth:	4.3
Subcontractor:	GeoLogic NY, Inc.	Soil Drilled:	4.3
Driller:	J. MANZEL	Method:	Direct Push
Rig Type/Model:	66 JODT	P.I.D (eV):	10.6 eV
Reference Elevation:	Grade	Protection Level:	Level D
		Date Started:	6-12-12
		Date Completed:	6-12-12
		Logged By:	T.D. Langley
		Checked By:	JH 7/10/12
		Water Level:	—
		Time:	—
		Sampler:	Macrocore
		Sampler ID/OD:	2"/4"
		Hammer Wt/Fall:	NA
		Hammer Type:	Percussion

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1								
1.8								
2.3		2.3/1.9	NA	✓	MPDP 217-003 12 XX	DK. brn. to black Fill: ^Q stony, moist silt & sand, tr. to little gravel		11:00
3								
3.8								
4.3		2.0/1.6	NA	✓	MPDP 217-004 12 XX	FILL to ~ 3.5'; then olive brn. SILT & V.F. SAND, poorly graded, ^Q clayey, SL-plastic fine till	ML	
5						BOE @ 4.3' NOT REFUSAL ^Q 7/16/12		

NOTES: ☒ INDICATES INTERVAL SUBMITTED TO LAB FOR POTENTIAL ANALYSIS

NOTES:

FIGURE 4.4



SOIL BORING LOG

NYSDEC QUALITY ASSURANCE PROGRAM PLAN



MACTEC

Project Name:	3456 Oneida Street Site - PDI Phase III	Boring ID:	DP-219
Project Location:	New Hartford, New York	Page No.	1
Project No.: 3612122232/03	Client: NYSDEC	of:	1
Refusal Depth: —	Total Depth: 4.3'	Bore Hole ID/OD:	4"
Soil Drilled: 4.3	Method: Direct Push	Casing Size:	4"
P.I.D (eV): 10.6 eV	Protection Level: Level D	Sampler:	Macrocore
Date Started: 6-12-12	Date Completed: 6-12-12	Sampler ID/OD:	2"/4"
Logged By: T.D. Bradley	Checked By: [Signature]	Hammer Wt/Fall:	NA
Water Level: —	Time: —	Hammer Type:	Percussion

NOTES:  SAMPLED INTERVAL  7/16/12

NYSDEC QUALITY ASSURANCE PROGRAM PLAN



MACTEC

FIGURE 4.4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG




511 Congress Street, Portland Maine 04101

Project Name:	3456 Oneida Street Site - PD1 Phase III	Boring ID:	DP-221
Project Location:	New Hartford, New York	Page No.	1
Project No.:	3612122232/03	Client:	NYSDEC
		of:	1
Boring Location:	See Site Plan	Refusal Depth:	NA
Weather:	RAIN, 60's - 70's	Total Depth:	4.3
Subcontractor:	GeoLogic NY, Inc.	Soil Drilled:	4.3
Driller:	J. MANUEL	Method:	Direct Push
Rig Type/Model:	6620 DT	P.I.D (eV):	10.6 eV
Reference Elevation:	Grade	Protection Level:	Level D
		Date Started:	6-12-12
		Date Completed:	7-12-12
		Logged By:	TD Longley
		Checked By:	J. P. 7/16/12
		Water Level:	
		Time:	
		Sampler:	Macrocore
		Sampler ID/OD:	2"/4"
		Hammer Wt/Fall:	NA
		Hammer Type:	Percussion

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1								
1.8		2.3 2.3	NA	yes	MPDP22100312XX	13:40 0'-1.6': Fill - black GRAVEL & SAND w/ brick pieces, dense, damp 1.6'-2.3': yellow brn. SILT, tr black organic stringers, v. well sorted, dense, moist, firm: Alluvium	ML	
2.3								
3								
3.8		2.0 1.5	NA	yes	MPDP22100412XX	13:45 yellow brn. GRAVEL & SAND & SILT, well graded, dense to loose, ^{VET} sandier, TILL	SM	
4.3								
6						BOE @ 4.3'; NOT REFUSAL @ 7/16/12		

NOTES: ☒ SAMPLED INTERVAL @ 7/16/12

SOIL BORING LOG

 MACTEC 511 Congress Street, Portland Maine 04101			Project Name: 3456 Oneida Street Site - PDI Phase III		Boring ID: DP-222
			Project Location: New Hartford, New York		Page No. 1
Boring Location: See Site Plan			Refusal Depth: NA	Total Depth: 4.3	Bore Hole ID/OD: 4"
Weather: Rain			Soil Drilled: 4.3	Method: Direct Push	Casing Size: 4"
Subcontractor: GeoLogic NY, Inc.			P.I.D (eV): 10.6 eV	Protection Level: Level D	Sampler: Macrocore
Driller: J. MENZEL			Date Started: 6-12-12	Date Completed: 6-12-12	Sampler ID/OD: 2"/4"
Rig Type/Model: 6200T			Logged By: T.D. Longley	Checked By: [Signature] 7/16/12	Hammer Wt/Fall: NA
Reference Elevation: Grade			Water Level:	Time:	Hammer Type: Percussion

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1	5-1	2.3 / 1.0	NA	yes	MPDR2200013 XX	13:55 dk. gray to black, Fill		
2	1.8							
3	5-2	2.0 / 1.7	NA	yes	MPDR22000412 XX	14:00 Olive brn. SILT, firm, v. well sorted, Moist, Alluvium: very tip of spoon in Till	ML SM	
4	3.8							
5	4.3					Box @ 4.3'; NOT REFUSAL @ 9/16/12		

NOTES:

☒ SAMPLED INTERVAL @ 7/16/12

FIGURE 4.4
SOIL BORING LOG

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name: 3456 Oneida Street Site - PDI Phase III		Boring ID: DP-223
Project Location: New Hartford, New York		Page No. 1
Project No.: 3612122232/03	Client: NYSDEC	of: 1
Boring Location: See Site Plan	Refusal Depth: NA	Total Depth: 4.3
Weather: RAIN	Soil Drilled: 4.3	Method: Direct Push
Subcontractor: GeoLogic NY, Inc.	P.I.D (eV): 10.6 eV	Protection Level: Level D
Driller: J. MANZEL	Date Started: 6-12-12	Date Completed: 6-12-12
Rig Type/Model: 6620 DT	Logged By: T.D. Longley	Checked By: [Signature] 7/16/12
Reference Elevation: Grade	Water Level: —	Time: —
		Bore Hole ID/OD: 4"
		Casing Size: 4"
		Sampler: Macrocore
		Sampler ID/OD: 2"/4"
		Hammer Wt/Fall: NA
		Hammer Type: Percussion

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1	S-1							
1.8		2.3 / 2.3	NA	yes	MPDP 22300312-XX	dk. grayish brown TILL; fine grained, SILT & F. SAND, tr. gravel & c. sand, damp, dense, poorly graded, massive (TILL) (2)	ML	
3	S-2							
3.8		2.0 / 1.1	NA	yes	MPDP 22300412-XX	14:22 light yellow brn. TILL, well graded, loose, WET (2) to slightly dense, saturated, gravelly (2)	GC	
4.3								
5						B.O.E. AT 4.3"; NOT REFUSAL (2) 7/16/12		


NOTES:

☒ SAMPLED INTERVAL @ 7/16/12

FIGURE 4.4
SOIL BORING LOG


NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG

 511 Congress Street, Portland Maine 04101			Project Name: 3456 Oneida Street Site - PDI Phase III		Boring ID: DP-224
			Project Location: New Hartford, New York		Page No. 1
Boring Location: See Site Plan			Refusal Depth: NA	Total Depth: 4.3	Bore Hole ID/OD: 4"
Weather: RAIN			Soil Drilled: 4.3	Method: Direct Push	Casing Size: 4"
Subcontractor: GeoLogic NY, Inc.			P.I.D (eV): 10.6 eV	Protection Level: Level D	Sampler: Macrocore
Driller: J. MANUEL			Date Started: 6-12-12	Date Completed: 6-12-12	Sampler ID/OD: 2"/4"
Rig Type/Model: 66 30 D.T			Logged By: T.D. Longley	Checked By: [Signature] 7/16/12	Hammer Wt/Fall: NA
Reference Elevation: Grade			Water Level:	Time:	Hammer Type: Percussion

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1	S1					14:45		
1.8		2.3	NA	yes	MPDR224 00312.XX	Gravel & SAND, well graded, dry, denser; FILL (concrete pieces)		
2.3		1.3						
3	S2					14:48		
3.8		2.0	NA	yes	MPDR224 00412.XX	Yellow brn. GRAVEL & SAND, WET, loose; TILL	GM	
4.3		0.9						
5						BOE @ 4.3'; NOT REFUSAL @ 7/16/12		

NOTES:

 SAMPLED INTERVAL @ 7/16/12

511 Congress Street, Portland Maine 04101

DP-225

1

of:

Bore Hole ID/OD: 4"

Casing Size: 4"

Sampler:	Macrocore
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Sampler ID/OD:	2"/4"
----------------	-------

Hammer Wt/Fall: NA

Hammer Type:	Percussion
--------------	------------

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG

 511 Congress Street, Portland Maine 04101			Project Name: 3456 Oneida Street Site - PDI Phase III		Boring ID: DP-226
			Project Location: New Hartford, New York		Page No. 1
			Project No.: 3612122232/03	Client: NYSDEC	of: 1
Boring Location: See Site Plan			Refusal Depth: NA	Total Depth: 4.3	Bore Hole ID/OD: 4"
Weather: RAIN			Soil Drilled: 4.3	Method: Direct Push	Casing Size: 4"
Subcontractor: GeoLogic NY, Inc.			P.I.D (eV): 10.6 eV	Protection Level: Level D	Sampler: Macrocore
Driller: J. MANZEL			Date Started: 6-12-12	Date Completed: 6-12-12	Sampler ID/OD: 2"/4"
Rig Type/Model: 66 30 DT			Logged By: T.D. Longley	Checked By: [Signature]	Hammer Wt/Fall: NA
Reference Elevation: Grade			Water Level:	Time:	Hammer Type: Percussion

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1.8	S-1	2.3 / 1.9	NA	yes	MPDR 22600212 XX	15:18 Fill to 1.6', then dk. gray SILT, w/ little black organics, well sorted, firm, damp, massive, SL. plastic, Alluvium	ML	
3.8	S-2	2.0 / 0.9	NA	yes	MPDR 22600412 XX	15:22 yellow brn. fine SAND & SILT, v. well sorted, firm, wet, SL. plastic, Alluvium	SM	
4.3						B.O.E. @ 4.3'; NOT REFUSAL 7/16/12		

NOTES:

☒ SAMPLED INTERVAL ① 7/16/12

FIGURE 4.4

SOIL BORING LOG

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name:	3456 Oneida Street Site - PDI Phase III	Boring ID:	DP-227
Project Location:	New Hartford, New York	Page No.	1
Project No.:	3612122232/03	Client:	NYSDEC
		of:	1
Boring Location:	See Site Plan	Refusal Depth:	NA
Weather:	RAIN	Total Depth:	4.3
Subcontractor:	GeoLogic NY, Inc.	Soil Drilled:	4.3
Driller:	J. MANZEL	Method:	Direct Push
Rig Type/Model:	6020 DT	P.I.D (eV):	10.6 eV
Reference Elevation:	Grade	Protection Level:	Level D
		Date Started:	6-12-12
		Date Completed:	6-12-12
		Logged By:	T.D. Longley
		Checked By:	[Signature] 7/16/12
		Water Level:	
		Time:	
		Bore Hole ID/OD:	4"
		Casing Size:	4"
		Sampler:	Macrocore
		Sampler ID/OD:	2 1/4"
		Hammer Wt/Fall:	NA
		Hammer Type:	Percussion

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1	S-1	2.3 / 1.8	NA	yes	MPDP 227 00212XX	15:35 Fill to 0.9'; then dk. gray SILT, tr. fine to c. SAND, v. well sorted, v. firm, damp, non-plastic; Alluvium	ML	
3	S-2	2.0 / 1.0	NA	yes	MPDP 227 00412XX	15:40 gray to gray brn. TILL: SILT, little sand, tr. gravel, dense, SL. plastic	ML	
5						B.O.E. @ 4.3'; NOT REFUSAL ① 7/16/12		

NOTES: SAMPLED INTERVAL @ 7/16/12



MACTEC

511 Congress Street, Portland Maine 04101

Boring ID: DP-228

Page No. 1

of:

Bore Hole ID/OD:	4"
------------------	----

Casing Size: 4"

Sampler:	Macrocore
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Sampler ID/OD:	2"/4"
----------------	-------

Hammer Wt/Fall:	NA
-----------------	----

Hammer Type:	Percussion
--------------	------------

NOTES: ☒ SAMPLED INTERVAL @ 7/16/12

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name: 3456 Oneida Street Site - PDI Phase III		Boring ID: DP-229
Project Location: New Hartford, New York		Page No. 1
Project No.: 3612122232/03	Client: NYSDEC	of: 1
Boring Location: See Site Plan	Refusal Depth: NA	Total Depth: 4.3
Weather: RAIN	Soil Drilled: 4.3	Method: Direct Push
Subcontractor: GeoLogic NY, Inc.	P.I.D (eV): 10.6 eV	Protection Level: Level D
Driller: J. MARRA	Date Started: 6-12-12	Date Completed: 6-12-12
Rig Type/Model: 6.30 DT	Logged By: T.D. Bradley	Checked By: [Signature] 7/16/12
Reference Elevation: Grade	Water Level:	Time:
		Hammer Wt/Fall: NA
		Hammer Type: Percussion

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1.6	1.6							
1.8	1.8	2.3 / 0.2						
2.3	2.3		NA	yes	MPDR 22900621232 XX	dk. gray to black fill: gravelly sand, to silt, wet loose @		
3	3							
3.8	3.8	2.0 / 0.1						
4.3	4.3		NA	yes	MPDR 22900621232 XX	AS Above: v. little recovery		
5						BOEC 4.3'; NOT REFUSAL @ 7/16/12		


NOTES:

☒ SAMPLED INTERVAL @ 7/16/12

FIGURE 4.4
SOIL BORING LOG

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG

 MACTEC 511 Congress Street, Portland Maine 04101			Project Name: 3456 Oneida Street Site - PDI Phase III		Boring ID: DP-230	
			Project Location: New Hartford, New York		Page No. 1	
Boring Location: See Site Plan			Refusal Depth: NA		Total Depth: 4.3	
Weather: Overcast, Breezy			Soil Drilled: 4.3		Method: Direct Push	
Subcontractor: GeoLogic NY, Inc.			P.I.D (eV): 10.6 eV		Protection Level: Level D	
Driller: J. MANZEL			Date Started: 6-13-12		Date Completed: 6-13-12	
Rig Type/Model: 6620 DT			Logged By: T.D. LONALEY		Checked By: [Signature] 7/16/12	
Reference Elevation: Grade			Water Level: —		Time: —	
Sample Information			Monitoring			
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID	USCS Group Symbol
0.0						
1	5-1	2.0 / 1.8				
2	1.8 2.3		0.0	yes	MPDP 230 00212XX	
3	5-2	2.0 / 1.9				
4	3.8 4.3		0.0	yes	MPDP 3000412XX	
5						

08:38

Black & white Fill, clinkers, brick, etc.,
Ash, con pieces
wet. firm Fill
Ⓢ

0840

As above to 1.3', then yellow brn.
SILT & F. SAND, well sorted, firm, moist,
tr. organics (black): ALLUVIUM
ML

B.O.E. @ 4.3'; NOT REFUSAL Ⓢ 7/16/12

NOTES:




SAMPLED INTERVAL @ 7/16/12


FIGURE 4.4

SOIL BORING LOG

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG

 511 Congress Street, Portland Maine 04101			Project Name: 3456 Oneida Street Site - PDI Phase III		Boring ID: DP-231	
			Project Location: New Hartford, New York		Page No. 1	
			Project No.: 3612122232/03 Client: NYSDEC		of: 1	
Boring Location: See Site Plan			Refusal Depth: NA		Total Depth: 4.3	
Weather: Overcast			Soil Drilled: 4.3'		Method: Direct Push	
Subcontractor: GeoLogic NY, Inc.			P.I.D (eV): 10.6 eV		Protection Level: Level D	
Driller: J. MANUEL			Date Started: 6-13-12		Date Completed: 6-23-12	
Rig Type/Model: WOODT			Logged By: T.D. Longley		Checked By: [Signature] 7/16/12	
Reference Elevation: Grade			Water Level:		Time:	
Sample Information			Monitoring			
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID	USCS Group Symbol
0.0						
1	S-1	2.3 / 1.8			MPDP23100212XX	
2		2.3	0.0	yes		
3	S-2	2.0 / 2.0			MPDP23100412XX	
4		3.8	0.0	yes		Sm
6		4.3				
Sample Description and Classification 0900 ALL Fill: rock, etc. SAND & GRAVEL, wet, loose 0905 Fill to 1'; then, yellow brn. f. SAND & SILT, well sorted, saturated, soft, SL. plastic: WET @ Alluvium 2 Refusals @ less than 2.3' bgs, then success B.O.E. @ 4.3' 7/16/12						

NOTES:  SAMPLED INTERVAL @ 7/16/12

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name:	3456 Oneida Street Site - PDI Phase III	Boring ID:	DP-232
Project Location:	New Hartford, New York	Page No.	1
Project No.:	361212232/03	Client:	NYSDEC
Boring Location:	See Site Plan	Refusal Depth:	NA
Weather:	Overcast, 60's	Total Depth:	4.3
Subcontractor:	GeoLogic NY, Inc.	Soil Drilled:	4.3
Driller:	J. MANUEL	Method:	Direct Push
Rig Type/Model:	6630 DT	P.I.D (eV):	10.6 eV
Reference Elevation:	Grade	Protection Level:	Level D
		Date Started:	6-13-12
		Date Completed:	6-13-12
		Logged By:	T.D. Longley
		Checked By:	JH 7/16/12
		Water Level:	
		Time:	
		Sampler ID/OD:	2"/4"
		Hammer Wt/Fall:	NA
		Hammer Type:	Percussion

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1	5-1	2.3 / 1.8	0.0	yes	MPDR 232004 12-XX	09:17 All Fill: black, congl, gravel, sand, wet, loose to dense fr. SILT. Fill		
2	5-2	2.0 / 1.2	0.0	yes	MPDR 232004 12-XX	09:20 Grading from blackish brown SILT & f. SAND, to yellow brn. SILT & F. SAND; Alluvium over TILL; sl. plastic, well sorted, wet, dense. (CR)	ML	
3								
4								
5						BOE @ 4.3'; NOT REFUSAL (CR) 7/16/12		

NOTES:

☒ SAMPLED INTERX @ 7/16/12

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name: 3456 Oneida Street Site - PDI Phase III

Boring ID: DP-233

Project Location: New Hartford, New York

Page No. 1

Project No.: 3612122232/03

Client: NYSDEC

of: 1

Boring Location: See Site Plan

Refusal Depth: NA

Total Depth: 4.3

Bore Hole ID/OD: 4"

Weather: Overcast, cool

Soil Drilled: 4.3

Method: Direct Push

Casing Size: 4"

Subcontractor: GeoLogic NY, Inc.

P.I.D (eV): 10.6 eV

Protection Level: Level D

Sampler: Macrocore

Driller: J. MANZEL

Date Started: 6-13-12

Date Completed: 6-13-12

Sampler ID/OD: 2"/4"

Rig Type/Model: 6620 DT

Logged By: T.D. Longley

Checked By: J. Manzel 7/10/12

Hammer Wt/Fall: NA

Reference Elevation: Grade

Water Level:

Time:

Hammer Type: Percussion

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1	5-1					09:35 0-0.4 = brn. GRAVEL, SAND, SILT		
2	1.8 2.3	2.3 1.7	0.0	yes	MPDP23300412XX	0.4-1.7': black coal pieces @ loose, wet, well graded, non-plastic; coal & coal dust		
3	5-2					09:38 yellow brn. f. SAND & SILT, well sorted, dense, wet, non-plastic: TILL.		
4	3.8 4.3	2.0 1.0	0.0	yes	MPDP23300412XX	fine-grained till	Sm	
5						B.O.F. @ 4.3'; NOT REFUSED @ 7/10/12		

NOTES:

☒ SAMPLED INTERVAL @ 7/10/12

FIGURE 4.4

SOIL BORING LOG

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name:	3456 Oneida Street Site - PDI Phase III	Boring ID:	DP-234
Project Location:	New Hartford, New York	Page No.	1
Project No.: 3612122232/03	Client: NYSDEC	of:	1
Boring Location:	See Site Plan	Refusal Depth:	NA
Weather:		Total Depth:	4.3
Subcontractor:	GeoLogic NY, Inc.	Soil Drilled:	4.3
Driller:	OVERCAST, COOL	Method:	Direct Push
Rig Type/Model:	6620 DT	P.I.D (eV):	10.6 eV
Reference Elevation:	Grade	Protection Level:	Level D
		Date Started:	6-13-12
		Date Completed:	6-13-12
		Logged By:	T.D. Longley
		Checked By:	[Signature] 7/16/12
		Water Level:	
		Time:	
		Sampler ID/OD:	2"/4"
		Hammer Wt/Fall:	NA
		Hammer Type:	Percussion

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1	S-1	2.3 / 1.7	0.0	yes	MPDP23400212XX	09:50 All FILL brown GRAVEL & SAND, over black coal, moist to wet, loose (2)		
2								
3	S-2	2.0 / 1.6	0.0	yes	MPDP23400412XX	09:53 top is coal bottom 0.4: yellow brn. SAND, Little SILT, in gravel, dense to loose, ^{WET @ CR} saturated, well graded sand, non-plastic; TILL	SM	
4								
5						B.O.E. @ 4.3'; NOT REFUSAL @ 7/16/12		

NOTES:

~~SM~~ @ 7/16/12
SAMPLED INTERVAL @ 7/16/12

SURFACE SOIL SAMPLING RECORD



511 Congress Street, Portland Maine 04101

PROJECT NAME 3456 Onelda Street Site - PDI Phase III	
PROJECT NUMBER 3612122232/03	
SAMPLE ID MPDP15600012XX	SAMPLE TIME 09:45

SAMPLE LOCATION DP-156	DATE 7-25-12
START TIME 09:45	END TIME 09:48
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

☒ DISCRETE
☐ COMPOSITE

QC SAMPLES

☐ DUPLICATE _____
☐ EQ BLK _____

MS/MSD:

☒ YES
☐ NO

SAMPLE INTERVAL:

TOP Surface (0")
 BOTTOM 2"

TYPE OF MATERIAL:

☐ ORGANIC
☒ SAND
☒ GRAVEL
☐ CLAY
☒ FILL
☐ OTHER _____

COLLECTION EQUIPMENT

☐ HAND AUGER/CORER
☐ S.S. SPLIT BARREL
☐ ALUMINIUM PAN
☒ S.S. SHOVEL
☐ HAND SPOON/SPATULA
☐ S.S. BUCKET
☒ OTHER Hand w/ gloves

SAMPLE OBSERVATIONS

ODOR _____
 COLOR Black
 OTHER _____
 PID 0.0

DECON FLUIDS USED

☐ ALL USED
☒ LIQUINOX/DI H₂O SOLUTION
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ 25% METHANOL/75% ASTM TYPE II H₂O
☐ ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

☐ YES
☒ NO

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/>	PCB/Percent Solids	8082A	4°C	(1) 4oz Amber Jar	<u>yes</u>	—	—
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

NOTES

black, organic rich topsoil/fill w/ roots;
 clinkers, dry, loose

SKETCH

See Site Figure

Sampler Signature:

[Signature]

Print Name:

Thomas D. Longley

Checked By:

Date:

7/31/2012

FIGURE 4.12
 SURFACE SOIL SAMPLING RECORD
 NYSDEC QUALITY ASSURANCE PROJECT PLAN

SURFACE SOIL SAMPLING RECORD



511 Congress Street, Portland Maine 04101

PROJECT NAME 3456 Oneida Street Site - PDI Phase III	
PROJECT NUMBER 3612122232/03	
SAMPLE ID MPDP 174 00012XX	SAMPLE TIME 10:30

SAMPLE LOCATION DP-174	DATE 7-25-12
START TIME 10:20	END TIME 10:30
SITE NAME/NUMBER Mullen Property/633049	PAGE 1 OF 1

SAMPLE INFORMATION

TYPE OF SAMPLE

☒ DISCRETE
☐ COMPOSITE

QC SAMPLES

☐ DUPLICATE
☐ EQ BLK

MS/MSD:

☒ YES
☐ NO

SAMPLE INTERVAL:

TOP Surface (0")
 BOTTOM 2"

TYPE OF MATERIAL:

☐ ORGANIC
☒ SAND
☒ GRAVEL
☒ CLAY
☐ FILL
☐ OTHER

COLLECTION EQUIPMENT

☐ HAND AUGER/CORER
☐ S.S. SPLIT BARREL
☐ ALUMINIUM PAN
☒ S.S. SHOVEL
☐ HAND SPOON/SPATULA
☐ S.S. BUCKET
☒ OTHER *gloved hand*

SAMPLE OBSERVATIONS

ODOR —
 COLOR *black*
 OTHER —
 PID *0.0*

DECON FLUIDS USED

☐ ALL USED
☒ LIQUINOX/DI H₂O SOLUTION
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ 25% METHANOL/75% ASTM TYPE II H₂O
☐ ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

☐ YES
☒ NO

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
PCB/Percent Solids	8082A	4°C	(1) 4oz Amber Jar	<i>yes</i>	<i>no</i>	

NOTES

*dk. brn. to black, coal, cinders, roots,
 Sand - to-silt, loose, dry, fill*

SKETCH

See Site Figure

Sampler Signature

Print Name:

Checked By:

Date:

FIGURE 4.12
 SURFACE SOIL SAMPLING RECORD
 NYSDEC QUALITY ASSURANCE PROJECT PLAN

P:\Projects\nysdec\1\Contracts D004434 and D004444\projects\3456 Oneida St. RD\3.0_Site_Data\3.2_Field_Notes\Surface Soil Sampling FDR - Phase II

P:\Projects\nysdec1\Contracts D004434 and D004444\projects\3456 Oneida St. RD\3.0_Site_Data\3.2_Field_Notes\Surface Soil Sampling FDR - Phase II

P:\Projects\nysdec1\Contracts D004434 and D004444\projects\3456 Onelda St. RD\3.0 Site Data\3.2 Field Notes\Surface Soil Sampling FDR - Phase II



MACTEC

Boring ID: DP-156

Page No. *f*

of: 1

Bore Hole ID/OD: 4"

Casing Size: 4"

Sampler:	Macrocore
----------	-----------

Sampler ID/OD: 2" / 4"

Hammer Wt/Fall: NA

Hammer Type:	Percussion
--------------	------------

NOTES:

FIGURE 4.4
SOIL BORING LOG

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name: 3456 Oneida Street Site - PDI Phase III

Boring ID: DP-157

Project Location: New Hartford, New York

Page No. 1

Project No.: 3612122232/03

Client: NYSDEC

of: 1

Boring Location: See Site Plan

Refusal Depth: —

Total Depth: 2.3

Bore Hole ID/OD: 4"

Weather: Sunny, 80's

Soil Drilled: 2.3

Method: Direct Push

Casing Size: 4"

Subcontractor: GeoLogic NY, Inc.

P.I.D (eV): 10.6 eV

Protection Level: Level D

Sampler: Macrocore

Driller: Joe Menzel

Date Started: 7-25-12

Date Completed: 7-25-12

Sampler ID/OD: 2 1/4"

Rig Type/Model: GeoProbe 6670 DT

Logged By: TD Longley

Checked By: JDT 7/31/12

Hammer Wt/Fall: NA

Reference Elevation: Grade

Water Level: —

Time: —

Hammer Type: Percussion

Sample Information

Monitoring

Sample Description and Classification

USCS Group Symbol

Remarks

Depth (feet bgs)

Sample Number

Penetration/ Recovery (feet)

PID Field Scan

Lab Tests Performed

Lab Sample ID

0.0

2 1.8
5-1
2.3

2.3
1.5

0.0

y

MPDP157002-12-KX

09:50
dk. brown SAND, fine, to silt, well
sorted, med-dense, dry, non-plastic;
w/ coal pieces, clinkers; FILL

SM

B.O.E. @ 2.3'; NOT REFUSAL @
7/31/12

NOTES:

SAMPLED INTERVAL @

FIGURE 4.4

SOIL BORING LOG

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

511 Congress Street, Portland Maine 04101

DP-173

1

of: /

Bore Hole ID/OD: 4"

Casing Size: 4"

Sampler:	Macrocore
----------	-----------

Sampler ID/OD: 2 1/4"

Hammer Wt/Fall:	NA
-----------------	----

Hammer Type:	Percussion
--------------	------------

NOTES:

NYSDEC QUALITY ASSURANCE PROGRAM PLAN



511 Congress Street, Portland Maine 04101

Boring ID: DP-174

Page No. /

of: 1

Bore Hole ID/OD: 4"

Casing Size: 4"


Sampler:	Macrocore
----------	-----------

Sampler ID/OD: 2" / 4"

Hammer Wt/Fall:	NA
-----------------	----

Hammer Type:	Percussion
--------------	------------

5



SAMPLED INTERVAL (u)

SOIL BORING LOG

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name:	3456 Oneida Street Site - PDI Phase III	Boring ID:	DP-188
Project Location:	New Hartford, New York	Page No.	1
Project No.:	3612122232/03	Client:	NYSDEC
Boring Location:	See Site Plan	Refusal Depth:	—
Weather:	Sunny, 80's	Total Depth:	4.3
Subcontractor:	GeoLogic NY, Inc.	Soil Drilled:	4.3
Driller:	JOE MENZEL	Method:	Direct Push
Rig Type/Model:	GeoProbe 6620 DT	P.I.D (eV):	10.6 eV
Reference Elevation:	Grade	Protection Level:	Level D
		Date Started:	7-25-12
		Date Completed:	7-25-12
		Logged By:	TD Longley
		Checked By:	7/31/12 gjo
		Water Level:	—
		Time:	—
		Sampler:	Macrocore
		Sampler ID/OD:	(2) 4"
		Hammer Wt/Fall:	NA
		Hammer Type:	Percussion

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1								
2	1.8 5-1 2.3	2.3 1.5	0.0	g	MPDP188 003 13 XX	10:34 dk. brown to black, COAL w/ f. sand, tr. SILT, loose , well sorted, dry: FILL	Sm	
3								
4	3.8 5-2 4.3	2.0 0.5	0.0	g	MPDP188 004 12 XX	10:38 Rock(s) prevent good recovery: dk.brn. Sand, fine, tr. gravel & SILT, dry, loose , non-plastic, FILL w/ COAL; Very tip of spoon may be native, olive brn. TILL	Sm	
5						B.O.E. @ 4.3'; NOT REFUSAL (2) 7/31/12		

NOTES:

SAMPLED INTERVAL (2)

FIGURE 4.4

SOIL BORING LOG

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG



MACTEC

511 Congress Street, Portland Maine 04101

Project Name:	3456 Oneida Street Site - PDI Phase III	Boring ID:	DP-189
Project Location:	New Hartford, New York	Page No.	1
Project No.:	3612122232/03	Client:	NYSDEC
Refusal Depth:	—	Total Depth:	8.3
Weather:	Sunny, 80's	Soil Drilled:	8.3
Subcontractor:	GeoLogic NY, Inc.	Method:	Direct Push
Driller:	JOE MENZEL	P.I.D (eV):	10.6 eV
Rig Type/Model:	6620 DT	Protection Level:	Level D
Reference Elevation:	Grade	Date Started:	7-25-12
		Date Completed:	7-25-12
		Logged By:	TD Longley
		Checked By:	JH 7/31/12
		Water Level:	—
		Time:	—
		Hammer Wt/Fall:	NA
		Hammer Type:	Percussion

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1.8	5-1	2.3 / 1.0	0.0	y	MPDP18900373XX	10:45 dk. yellow brn. SAND & SILT, tr. gravel, med-dense to dense, moist, non-plastic FILL - w/ coal pieces	SM	
3.8	5-2	2.0 / 0.7	0.0	y	MPDP00413XX	10:48 dk. brn. SAND & SILT, tr. gravel, well graded dense, moist to wet, sl. plastic, FILL	SM	
5.8	5-3	2.0 / 0.7	0.0	y	MPDP00612XX	10:50 V. poor recovery; coal & SAND, med-dense, moist to wet, FILL; non-plastic	SM	
7.8	5-4	2.0 / 1.2	0.0	y	MPDP18900813XX	10:52 dk. brn. SAND, tr. to little silt, tr. gravel, well graded, med-dense, saturated, non-plastic: FILL WET	SM	
						B.O.E. @ 8.3'; NOT REFUSAL		

NOTES:

SAMPLED INTERVAL

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name:	3456 Oneida Street Site - PDI Phase III	Boring ID:	DP-199
Project Location:	New Hartford, New York	Page No.	1
Project No.:	3612122232/03	Client:	NYSDEC
of:	1		
Boring Location:	See Site Plan	Refusal Depth:	8.3
Weather:	Sunny 80's	Total Depth:	8.3
Subcontractor:	GeoLogic NY, Inc.	Method:	Direct Push
Driller:	JOE MENZEL	P.I.D (eV):	10.6 eV
Rig Type/Model:	GeoProbe 6630 DT	Protection Level:	Level D
Reference Elevation:	Grade	Date Started:	7-25-12
		Date Completed:	7-25-12
		Logged By:	TD Langley
		Checked By:	JF 7/31/12
		Water Level:	
		Time:	
		Sampler:	Macrocore
		Sampler ID/OD:	2" / 4"
		Hammer Wt/Fall:	NA
		Hammer Type:	Percussion

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1.8	5-1	2.3 / 1.3	0.0	y	MPDP19900912XX	11:19 Black & white ("salt & pepper") cinders, coal, loose, dry; FILL	SM	
3.8	5-2	2.0 / 1.2	0.0	y	MPDP19900412XX	11:24 change from cinders & cinders @ ~4' to brown, fine SAND, & SILT; well graded, med. dense, wet, non-plastic; FILL	SM	
5.8	5-3	2.0 / 1.2	0.0	y	MPDP19900612XX	11:35 black coal & cinders to ~6': change to brown SAND, w. white specs, tr. gravel, tr. SILT, well graded, saturated loose non-plastic; FILL WET	SM	
7.8	5-4	2.0 / 2.0	0.0	y	MPDP19900812XX	11:38 change of above to dk. gray native TILL; @ ~7.5' bgs.: driller notes "hard for last bit." Very dense, moist, non-plastic; fine-grained TILL, w/ tr. fine gravel.	SM / ML	
8.3						B.O.E. @ 8.3'; NOT REFUSAL		

NOTES: SAMPLED INTERVAL @

511 Congress Street, Portland Maine 04101

Boring ID: DP-200

Page No. 1

of:	
-----	--

Bore Hole ID/OD: 4"

Casing Size: 4"

Sampler:	Macrocore.
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Sampler ID/OD: 2 1/4"

Hammer Wt/Fall:	NA
-----------------	----

Hammer Type:	Percussion
--------------	------------

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name:	3456 Oneida Street Site - PDI Phase III	Boring ID:	GT-001
Project Location:	New Hartford, New York	Page No.	1
Project No.: 3612122232/03	Client: NYSDEC	of:	2
Boring Location:	See Site Plan	Refusal Depth:	NA
Weather:	Clearing, Breezy	Total Depth:	22'
Subcontractor:	GeoLogic NY, Inc.	Soil Drilled:	22'
Driller:	S. LARAMEE	Method:	H.S.A.
Rig Type/Model:	CME-55	P.I.D (eV): 10.6 eV	Protection Level: Level D
Reference Elevation:	Grade	Date Started:	6-13-12
		Date Completed:	6-13-12
		Logged By:	T.D. LONGLEY
		Checked By:	[Signature] 7/16/12
		Water Level:	①
		Time:	
		Sampler:	Split Spoon
		Sampler ID/OD:	3" O.D.
		Hammer Wt/Fall:	140/30"
		Hammer Type:	SAFETY

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1	S-1	2.0 / 0.7	0.0	No	-	4-9-11-10 (Blows) All FILL - brown gravel & sand & silt, brick pieces, dry, dense compact ①	(U) SM	driller comment "Real hard drilling"
2								
3	S-2	2.0 / 0.6	0.0	No	-	10-10-15-15 yellow brn. SAND, tr. silt, tr. gravel, compact ①, dry FILL		
4								
5	S-3	2.0 / 0.7	0.2 TO 0.0	No	-	8-12-15-17 olive to lt. yellow brn. SAND, tr. silt, tr. gravel; sand is well graded, non-plastic, dry to damp, dense compact ① FILL		PID = 0.0 TO 0.3 for background
6								
7	S-4	2.0 / 0.6	0.0	No	-	19-25-22-19 as above; becoming moist, mottled, DENSE ① FILL		
8								
9	S-5	0.9 / 0.7	0.0	No	-	10-50/0.4' lt. yellow brn. to olive brn. SAND, tr. gravel, tr. cobble/stone, tr. to little SILT, v. dense, damp, non-plastic FILL	moist ①	
10								
11	S-6	2.0 / 0.3	0.0	No	-	1-2-5-3 lt. yellow brn. FILL, w/ wood (tree) piece; LOOSE ①		
12								
13								
14							SM	
15								

NOTES:

① WATER LEVEL ESTIMATED AT 12' BGS BASED ON WATER LEVEL WITHIN SAVANNAH CREEK ① 7/16/12

FIGURE 4.4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

511 Congress Street, Portland Maine 04101

67-001

2

of:

Bore Hole ID/OD:

Casing Size:	3 1/4"
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Sampler:	SPLIT Spoon
----------	-------------

Sampler ID/OD: 250.0

2 Hammer Wt/Fall: 140/30"

Hammer Type:	Safety
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NOTES:

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name:	3456 Oneida Street Site - PDI Phase III	Boring ID:	GT-002
Project Location:	New Hartford, New York	Page No.	1
Project No.:	3612122232/03	Client:	NYSDEC
Boring Location:	See Site Plan	Refusal Depth:	16.3'
Weather:	Sunny & Warm, 70's	Total Depth:	16.3'
Subcontractor:	GeoLogic NY, Inc.	Method:	H.S.A.
Driller:	STEVE LARAMEE	P.I.D (eV):	10.6 eV
Rig Type/Model:	CME-55	Protection Level:	Level D
Reference Elevation:	Grade	Date Started:	6-14-12
		Date Completed:	6-14-12
		Logged By:	T.D. LONLEY
		Checked By:	[Signature]
		Water Level:	
		Time:	8:17/10/12
		Bore Hole ID/OD:	5 1/2"
		Casing Size:	3 1/4"
		Sampler:	Split Spoon
		Sampler ID/OD:	2" O.D.
		Hammer Wt/Fall:	140/30"
		Hammer Type:	SFERY

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1	5-1	2.0' / 0.5'	0.0	No	-	2-5-8-11 (blows) dk. gray to dk. brn. SAND & SILT, tr. gravel, tr. shale; topsoil over fill: med. dense dry: LOOSE @	SM(1)	
2								
3	5-2	2.0' / 0.8	0.0	No	-	5-8-3-3 as above to 0.4'; then, yellow brn. f. SAND, little SILT, well sorted, damp, non-plastic: FILL moist @	SM(1)	09:45
4								
5	5-3	2.0' / 1.0	0.0	yes	GT-002 (4-6')	4-3-4-5 Gray SAND & SILT, tr. gravel, wet, sl. plastic to 0.2'; then black clinkers to 0.4'; then reddish-brn. f. to med. SAND, tr. SILT to little SILT; FILL took picture, LOOSE @	SM(1)	4'-6' sent to LAB FOR SIEVE analysis (09:53)
6								
7	5-4	2.0' / 0.8	0.0	No	-	7-7-6-8 as above; FILL w/ black clinker gone @ 0.3', saturated, non-plastic, compact WET @	SM(1)	10:04
8								
9	5-5	2.0' / 1.1	0.0	No	-	8-11-12-10 dk. brn. w/ reddish tint f. SAND & SILT, over gravel, over dk. gray SILT, tr. clay, tr. sand; bottom rocks natural below fill, gray SILT is v. stiff, sl. plastic	SM(1)	took picture
10								
11	5-6	N.R.	N.R.	yes	GT-002 (10-12')	10-6-9-9 NATIVE SOIL @ 10' dk. gray SILT, tr. clay, tr. f. sand, to gravel, WET @	ML	10'-12' sent to Lab for sieve analysis plus hydrometer
12						10-6-9-9 NATIVE SOIL @ 10' dk. gray SILT, tr. clay, tr. f. sand, to gravel, WET @		
13						fine-grained TILL FIRM @		
14								
15								

NOTES:

N.R. = NOT RECORDED

BORING IS ~ 5' EAST & 2' South of surveyed location

FIGURE 4.4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN



MACTEC

Project Name: 3456 Oneida Street Site - PDI Phase III		Boring ID: GT-002
Project Location: New Hartford, New York		Page No. 2
Project No.: 361212232/03	Client: NYSDEC	of: 2
Refusal Depth: 16.3'	Total Depth: 16.3'	Bore Hole ID/OD:
Soil Drilled: 16.3'	Method: H.S.A.	Casing Size: 3 1/4"
P.I.D (eV): 10.6 eV	Protection Level: Level D	Sampler: Split Spoon
Date Started: 6-14-12	Date Completed: 6-14-12	Sampler ID/OD: 2" O.D.
Logged By: T.D. Longley	Checked By: [Signature] 6/16/12	Hammer Wt/Fall: 140/30"
Water Level: —	Time: —	Hammer Type: Safety

[illegible]

NOTES:

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name: 3456 Oneida Street Site - PDI Phase III		Boring ID: GT-003
Project Location: New Hartford, New York		Page No. 1
Project No.: 3612122232/03	Client: NYSDEC	of: 2
Boring Location: See Site Plan	Refusal Depth: NA	Total Depth: 27
Weather: Sunny, Warm, 70's	Soil Drilled: 27'	Method: H.S.A.
Subcontractor: GeoLogic NY, Inc.	P.I.D (eV): 10.6 eV	Protection Level: Level D
Driller: S. LARAMEE	Date Started: 6-14-12	Date Completed: 6/14/12
Rig Type/Model: CME-55	Logged By: T.D. LANGELEY	Checked By: [Signature]
Reference Elevation: Grade	Water Level: -	Time: 10:07/14/12
		Bore Hole ID/OD: 5 1/2"
		Casing Size: 3 1/4"
		Sampler: Split Spear
		Sampler ID/OD: 2" O.D.
		Hammer Wt/Fall: 140/30"
		Hammer Type: Safety

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1	S-1	2.0 / 0.7	0.1	No	-	2-27-9-4 (blows) Blackish, organic rich topsoil, over olive brn. to yellow brn. SAND & GRAVEL, tr. SILT, dry, dense FILL		15:00
2								
3	S-2	2.0 / 0.5	0.0	No	-	5-2-1-1 dark rusty brn. SAND, tr. gravel/silt, well moist @ 1. loose @ 6. graded sand, damp, dense. FILL		
4								
5	S-3	2.0 / 0.4	3.2	No	-	2-3-6-4 As above, moist, non-plastic, loose @ FILL		
6								
7	S-4	2.0 / 0.8	0.0	No	-	4-6-9-10 FILL over native (last 0.5), gray to brn. gray to dk. gray SILT, tr. f. sand, to med. sand, compact @ moist @ well sorted, dense, damp, ALLUVIUM		15:29 took picture
8								
9	S-5	2.0 / 1.8	0.0	No	-	5-6-6-7 gray to dk. gray SILT & CLAY, v. well sorted, moist, stiff non-plastic, ALLUVIUM; bottom 0.2' w/ tr. sand	ML	13:47 took picture
10								
11	S-6	2.0 / 1.6	0.0	No	-	4-5-9-11 Massive, dark gray SILT & CLAY, damp, firm @ non-plastic, stiff, tr. sand @ 11'-12'; served ALLUVIUM	ML	
12								
13								
14								
15								
						Augers w/ grinding sand @ 14'-15'		

NOTES:

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name:	3456 Onelda Street Site - PDI Phase III	Boring ID:	GT-003
Project Location:	New Hartford, New York	Page No.	2
Project No.:	3612122232/03	Client:	NYSDEC
Boring Location:	See Site Plan	Refusal Depth:	NA
Weather:	Sunny Warm, 70's	Total Depth:	27'
Subcontractor:	GeoLogic NY, Inc.	Soil Drilled:	27'
Driller:	S. Laramie	Method:	H.S.A.
Rig Type/Model:	CME-55	P.I.D (eV):	10.6 eV
Reference Elevation:	Grade	Protection Level:	Level D
		Date Started:	6-14-12
		Date Completed:	6-14-12
		Logged By:	T.D. Lorauey
		Checked By:	[Signature]
		Water Level:	—
		Time:	10:19/12
		Hammer W/Fall:	140/30"
		Hammer Type:	Safety

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
15						50/0.3' Spontaneous @ 15.3'		
16	S-7	0.3/0.3	0.0	NO	—	dk. gray to black SILT, CLAY (i gravel @ v. tip) w/ broken rock, well sorted, w/ stiff, ALLUVIUM HARD @	ML	
17								
18								
19								
20								
21	S-8	0.9/0.7	0.0	NO	—	46-50/0.4' Dk. gray, well sorted f. SAND, saturated, V. DENSE @ dense, non-plastic, grading into broken rock; ALLUVIUM over TILL? over rock?	SW	16:23
22								
23						"hard till" @ 24.5' - driller comment		
24						Sand returns between 20'-25'		
25						NO auger chatter but, hard drilling		
26	S-9	1.3/1.3	0.0	NO	—	24-16-50/0.3' V. DENSE @ dark gray f.-to-med. SAND, well sorted alt. w/ gravelly sections; and @ stiff SILT & CLAY, w/ V. thin silty sand lenses @ bottom HARD @	SP/Sm	16:41 took picture @ 16:47, wrong date of 6-15-12
27						terminate @ 27'		
						NOT REFUSAL @ 27/10/12		

NOTES:

511 Congress Street, Portland Maine 04101

Hammer Type:	JAPOTH
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NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name:	3456 Oneida Street Site - PDI Phase III	Boring ID:	GT-005
Project Location:	New Hartford, New York	Page No.	1
Project No.: 3612122232/03	Client: NYSDEC	of:	1
Boring Location:	See Site Plan	Refusal Depth:	12.3'
Weather:	Clearing, Warm	Total Depth:	12.3'
Subcontractor:	GeoLogic NY, Inc.	Soil Drilled:	12.3
Driller:	S. LAMMAB	Method:	H.S.A.
Rig Type/Model:	CMB-55	P.I.D (eV):	10.6 eV
Reference Elevation:	Grade	Protection Level:	Level D
		Date Started:	6-13-12
		Date Completed:	6-13-12
		Logged By:	T.O. Longley
		Checked By:	[Signature]
		Water Level:	
		Time:	7:10/12
		Bore Hole ID/OD:	5 1/2"
		Casing Size:	3 1/4"
		Sampler:	Split Spoon
		Sampler ID/OD:	2" O.D.
		Hammer Wt/Fall:	140/30"
		Hammer Type:	Safety

Sample Information			Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	PID Field Scan	Lab Tests Performed	Lab Sample ID			
0.0								
1	S-1	2.0 / 0.5'	0.0	No	-	3-2-2-3 (Blows) dk. yellow brn. SILT, little f. sand, topsoil, v. loose @ FILL		14:34
2								
3	S-2	2.0 / 0.6	0.0	No	-	2-4-5-4 yellow brn. f. SAND, well sorted, loose to firm @ tr. to little silt, damp, non-plastic, Alluvium	SM	
4								
5	S-3	2.0 / 1.0	0.0	No	-	7-13-14-13 yellow brn. TILL, to 0.7' then dk. gray TILL, SAND, tr. gravel, tr. to little silt, dense, wet, non-plastic	SM	
6								
7	S-4	2.0 / 1.4	0.0	No	-	23-19-12-21 dark gray TILL, f. to med SAND, wellgraded, tr. gravel, little to med SILT, TILL: + dense wet, sl. plastic, compact @	SM	
8								
9	S-5	0.9 / 0.0	N.R.	No	-	10-50/0.4' No recovery due to gravel stuck in spoon	SM	
10								
11	S-6	0.9 / 0.5	0.0	No	-	27-50/0.4' Gray TILL, SAND, wellgraded, tr. gravel, tr. to little SILT, v. dense, wet, non plastic, massive	SM	
12								
13						AT 12.3', Auger refusal: broke 2 cutting teeth: need to repair this tonight		

NOTES:

N.R. = Not Recorded

FIGURE 4.4
SOIL BORING LOG

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

ATTACHMENT 2

CHEMISTRY REVIEW REPORT AND COMPLETE ANALYTICAL RESULTS

**CHEMISTRY REVIEW REPORT
2012 SOIL SAMPLING EVENT
3456 ONEIDA STREET
NEW HARTFORD, NEW YORK**

1.0 INTRODUCTION

Soil and aqueous rinse blank samples were collected at 3456 Oneida Street Site in June and July 2012 and submitted to Test America Laboratory located in Buffalo, New York for analysis. A listing of samples included in this chemistry review report is presented in Table 1. Samples were analyzed by one or more of the following methods:

- Volatile Organic Compounds (VOCs) by USEPA Method 8260B
- Polychlorinated Biphenyls (PCB) by USEPA Method 8082A
- Percent Moisture by EPA Method 160.3

Deliverables for the off-site laboratory analyses included a Category A deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

A project chemist review was completed. EPA Region 2 QC limits were used during the data evaluation unless noted otherwise. The project chemist review included evaluations of sample collection, data package completeness, holding times, QC data (blanks, duplicates, surrogate recovery, and spike recovery), electronic data reporting, and data qualification. With the exception of the items discussed below, results are interpreted to be usable as reported by the laboratory. A summary of the analytical results is presented in Table 2. The following laboratory or data validation qualifiers are used in the final data presentation.

U = target analyte is not detected at the reported detection limit

J = concentration is estimated

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

2.0 SOIL SAMPLES

2.1 Volatile Organic Compounds (VOCs)

Eleven soil samples were submitted for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl-tert-butyl-ether (MTBE) by SW-846 8260B. No quality issues were identified and results are interpreted to be usable as reported by the laboratory.

2.2 Polychlorinated Biphenyls (PCBs)

Seventy two soil samples were submitted for analysis of PCBs (aroclor) by SW-846 8082A. No quality issues were identified and results are interpreted to be usable as reported by the laboratory.

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2002. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; Draft DER-10; Division of Environmental Remediation; December 2002.

USEPA Region 2, 2006. "Validating PCB Compounds by Gas Chromatography SW-846 Method 8082A"; SOP # HW-45, Revision 1, Hazardous Waste Support Branch; October 2006.

Data Validator: Tige Cunningham, NRCC-EAC



Date: 8/29/12

Reviewed by Chris Ricardi, NRCC-EAC
Quality Assurance Officer



Date: 9/4/12

TABLE 1 - SAMPLE SUMMARY
 CHEMISTRY REVIEW REPORT
 2012 SOIL SAMPLING EVENT
 3456 ONEIDA STREET
 NEW HARTFORD, NEW YORK

SDG	Media	Location	Sample Date	Sample ID	Class Analysis Method Fraction Qc Code	VOC SW8260B T	PCBs SW8082 T	Solids E160.3 T
480-21261-1	SOIL	DP-216	6/12/2012	MPDP21600212XX	FS	7	8	2
480-21261-1	SOIL	DP-216	6/12/2012	MPDP21600012XD	FD	7	8	2
480-21261-1	SOIL	DP-216	6/12/2012	MPDP21600012XX	FS	7	8	2
480-21261-1	SOIL	DP-217	6/12/2012	MPDP21700212XX	FS	7	8	2
480-21261-1	SOIL	DP-217	6/12/2012	MPDP21700012XX	FS	7	8	2
480-21261-1	SOIL	DP-218	6/12/2012	MPDP21800212XX	FS	7	8	2
480-21261-1	SOIL	DP-218	6/12/2012	MPDP21800012XX	FS	7	8	2
480-21261-1	SOIL	DP-219	6/12/2012	MPDP21900212XX	FS	7	8	2
480-21261-1	SOIL	DP-219	6/12/2012	MPDP21900012XX	FS	7	8	2
480-21261-1	SOIL	DP-220	6/12/2012	MPDP22000212XX	FS	7	8	2
480-21261-1	SOIL	DP-220	6/12/2012	MPDP22000012XX	FS	7	8	2
480-21261-1	BW	QC	6/12/2012	Trip Blank	TB	6		
480-21261-1	BW	QC	6/12/2012	MPQS012XXX12XX	EB	6	7	
480-21261-2	SOIL	DP-216	6/12/2012	MPDP21600412XX	FS		8	2
480-21261-2	SOIL	DP-217	6/12/2012	MPDP21700412XX	FS		8	2
480-21261-2	SOIL	DP-218	6/12/2012	MPDP21800412XX	FS		8	2
480-21261-2	SOIL	DP-219	6/12/2012	MPDP21900412XX	FS		8	2
480-21267-1	SOIL	DP-221	6/12/2012	MPDP22100212XX	FS		8	2
480-21267-1	SOIL	DP-221	6/12/2012	MPDP22100012XX	FS		8	2
480-21267-1	SOIL	DP-222	6/12/2012	MPDP22200212XX	FS		8	2
480-21267-1	SOIL	DP-222	6/12/2012	MPDP22200412XX	FS		8	2
480-21267-1	SOIL	DP-222	6/12/2012	MPDP22200012XX	FS		8	2
480-21267-1	SOIL	DP-223	6/12/2012	MPDP22300212XX	FS		8	2
480-21267-1	SOIL	DP-223	6/12/2012	MPDP22300012XD	FD		8	2
480-21267-1	SOIL	DP-223	6/12/2012	MPDP22300012XX	FS		8	2
480-21267-1	SOIL	DP-224	6/12/2012	MPDP22400212XX	FS		8	2
480-21267-1	SOIL	DP-224	6/12/2012	MPDP22400012XX	FS		8	2
480-21267-1	SOIL	DP-225	6/12/2012	MPDP22500212XX	FS		8	2
480-21267-2	SOIL	DP-221	6/12/2012	MPDP22100412XX	FS		8	2
480-21267-2	SOIL	DP-223	6/12/2012	MPDP22300412XX	FS		8	2
480-21276-1	SOIL	DP-225	6/12/2012	MPDP22500412XX	FS		8	2
480-21276-1	SOIL	DP-225	6/12/2012	MPDP22500012XX	FS		8	2
480-21276-1	SOIL	DP-226	6/12/2012	MPDP22600212XX	FS		8	2
480-21276-1	SOIL	DP-226	6/12/2012	MPDP22600012XX	FS		8	2
480-21276-1	SOIL	DP-227	6/12/2012	MPDP22700212XX	FS		8	2
480-21276-1	SOIL	DP-227	6/12/2012	MPDP22700012XX	FS		8	2
480-21276-1	SOIL	DP-228	6/12/2012	MPDP22800212XX	FS		8	2
480-21276-1	SOIL	DP-228	6/12/2012	MPDP22800012XX	FS		8	2
480-21276-1	SOIL	DP-229	6/12/2012	MPDP22900212XX	FS		8	2
480-21276-1	SOIL	DP-229	6/12/2012	MPDP22900012XX	FS		8	2
480-21276-1	SOIL	DP-230	6/13/2012	MPDP23000212XX	FS		8	2
480-21276-1	SOIL	DP-230	6/13/2012	MPDP23000012XD	FD		8	2
480-21276-1	SOIL	DP-230	6/13/2012	MPDP23000012XX	FS		8	2
480-21278-1	SOIL	DP-231	6/13/2012	MPDP23100212XX	FS		8	2
480-21278-1	SOIL	DP-231	6/13/2012	MPDP23100012XX	FS		8	2
480-21278-1	SOIL	DP-232	6/13/2012	MPDP23200212XX	FS		8	2

TABLE 1 - SAMPLE SUMMARY
CHEMISTRY REVIEW REPORT
2012 SOIL SAMPLING EVENT
3456 ONEIDA STREET
NEW HARTFORD, NEW YORK

SDG	Media	Location	Sample Date	Sample ID	Class	VOC	PCBs	Solids
					Analysis Method Fraction Qc Code	SW8260B T	SW8082 T	E160.3 T
480-21278-1	SOIL	DP-232	6/13/2012	MPDP23200012XX	FS		8	2
480-21278-1	SOIL	DP-233	6/13/2012	MPDP23300212XX	FS		8	2
480-21278-1	SOIL	DP-233	6/13/2012	MPDP23300012XX	FS		8	2
480-21278-1	SOIL	DP-234	6/13/2012	MPDP23400212XX	FS		8	2
480-21278-1	SOIL	DP-234	6/13/2012	MPDP23400012XX	FS		8	2
480-21278-1	SOIL	FP-014	6/13/2012	MPFP01400112XX	FS		8	2
480-21278-1	SOIL	FP-015	6/13/2012	MPFP01500112XX	FS		8	2
480-21278-1	SOIL	FP-016	6/13/2012	MPFP01600112XX	FS		8	2
480-21278-1	BW	QC	6/13/2012	MPQS013XXX12XX	EB	6	7	
480-23191-1	SOIL	DP-156	7/25/2012	MPDP15600012XX	FS		8	2
480-23191-1	SOIL	DP-157	7/25/2012	MPDP15700012XX	FS		8	2
480-23191-1	SOIL	DP-173	7/25/2012	MPDP17300212XX	FS		8	2
480-23191-1	SOIL	DP-173	7/25/2012	MPDP17300012XD	FD		8	2
480-23191-1	SOIL	DP-173	7/25/2012	MPDP17300012XX	FS		8	2
480-23191-1	SOIL	DP-174	7/25/2012	MPDP17400212XX	FS		8	2
480-23191-1	SOIL	DP-174	7/25/2012	MPDP17400012XX	FS		8	2
480-23191-1	SOIL	DP-188	7/25/2012	MPDP18800212XX	FS		8	2
480-23191-1	SOIL	DP-188	7/25/2012	MPDP18800012XX	FS		8	2
480-23191-1	SOIL	DP-189	7/25/2012	MPDP18900212XX	FS		8	2
480-23191-1	SOIL	DP-189	7/25/2012	MPDP18900412XX	FS		8	2
480-23191-1	SOIL	DP-189	7/25/2012	MPDP18900012XX	FS		8	2
480-23191-1	SOIL	DP-199	7/25/2012	MPDP19900212XX	FS		8	2
480-23191-1	SOIL	DP-199	7/25/2012	MPDP19900412XX	FS		8	2
480-23191-1	SOIL	DP-199	7/25/2012	MPDP19900612XX	FS		8	2
480-23191-1	SOIL	DP-199	7/25/2012	MPDP19900812XX	FS		8	2
480-23191-1	SOIL	DP-199	7/25/2012	MPDP19900012XX	FS		8	2
480-23191-1	SOIL	DP-200	7/25/2012	MPDP20000212XX	FS		8	2
480-23191-1	SOIL	DP-200	7/25/2012	MPDP20000012XD	FD		8	2
480-23191-1	SOIL	DP-200	7/25/2012	MPDP20000012XX	FS		8	2
480-23191-1	BW	QC	7/25/2012	MPQS014XXX12XX	EB		7	
480-23191-1	BW	QC	7/25/2012	MPQS015XXX12XX	EB		7	

Notes:

Number listed under method indicates number of target analytes reported.

Produced by: BJS 8/9/12

Checked by: TLC 8/23/12

TABLE 2- RESULTS SUMMARY
CHEMISTRY REVIEW REPORT
2012 SOIL SAMPLING EVENT
3456 ONEIDA STREET
NEW HARTFORD, NEW YORK

Sample Delivery Group					
Location		480-21261-1	480-21261-1	480-21261-1	480-21261-1
Sample Date		DP-216	DP-216	DP-216	DP-216
Sample ID		6/12/2012	6/12/2012	6/12/2012	6/12/2012
Qc Code		MPDP21600212XX	MPDP21600012XD	MPDP21600012XX	MPDP21700212XX
FS		FS	FD	FS	FS
Units		Result	Qualifier	Result	Qualifier
Result		Qualifier	Result	Qualifier	Result
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TABLE 2- RESULTS SUMMARY
CHEMISTRY REVIEW REPORT
2012 SOIL SAMPLING EVENT
3456 ONEIDA STREET
NEW HARTFORD, NEW YORK

Sample Delivery Group			Location		Sample Date		Sample ID		Qc Code	
Analysis	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260B	Benzene	ug/kg	4.7 U		4.7 U		4.9 U		4.9 U	
SW8260B	Ethyl benzene	ug/kg	4.7 U		5.4 U		4.9 U		4.9 U	
SW8260B	Methyl Tertbutyl Ether	ug/kg	4.7 U		5.4 U		4.9 U		4.9 U	
SW8260B	Toluene	ug/kg	4.7 U		5.4 U		4.9 U		4.9 U	
SW8260B	Xylene, o	ug/kg	4.7 U		5.4 U		4.9 U		4.9 U	
SW8260B	Xylenes (m&p)	ug/kg	9.3 U		11 U		9.9 U		9.8 U	
SW8260B	Xylenes, Total	ug/kg	9.3 U		11 U		9.9 U		9.8 U	
SW8082	Arclor-1016	mg/kg	0.21 U		0.24 U		0.21 U		0.2 U	
SW8082	Arclor-1221	mg/kg	0.21 U		0.24 U		0.21 U		0.2 U	
SW8082	Arclor-1232	mg/kg	0.21 U		0.24 U		0.21 U		0.2 U	
SW8082	Arclor-1242	mg/kg	0.21 U		0.24 U		0.21 U		0.2 U	
SW8082	Arclor-1248	mg/kg	0.21 U		0.24 U		0.21 U		0.2 U	
SW8082	Arclor-1254	mg/kg	0.24 U		0.33 U		0.43 U		0.27 U	
SW8082	Arclor-1260	mg/kg	0.21 U		0.24 U		0.21 U		0.2 U	
SW8082	PCB (total)	mg/kg	0.24 U		0.33 U		0.43 U		0.27 U	
E160.3	Percent Moisture	percent	5.4		9.5		11		3.4	
E160.3	Percent Solids	percent	95		90		89		97	
Notes:										

mg/kg = milligrams per kilogram

ug/kg - micrograms per kilogram

Qualifiers:

U = not detected, value is the reporting limit

J = value is estimated

FS = Field Sample

FD = Field Duplicate Sample

TABLE 2- RESULTS SUMMARY
CHEMISTRY REVIEW REPORT
2012 SOIL SAMPLING EVENT
3456 ONEIDA STREET
NEW HARTFORD, NEW YORK

Sample Delivery Group			480-21261-2		480-21261-2		480-21261-2		480-21267-1		480-21267-1		480-21267-1		480-21267-1	
Location			DP-217		DP-218		DP-219		DP-221		DP-221		DP-221		DP-222	
Sample Date			6/12/2012		6/12/2012		6/12/2012		6/12/2012		6/12/2012		6/12/2012		6/12/2012	
Sample ID			MPDP21700412XX		MPDP21800412XX		MPDP21900412XX		MPDP22100212XX		MPDP22100012XX		MPDP22100012XX		MPDP22200212XX	
Qc Code			FS		FS		FS		FS		FS		FS		FS	
Analysis	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260B	Benzene	ug/kg	0.31	U	0.18	U	0.23	U	0.3	U	0.22	U	0.26	U	0.26	U
SW8260B	Ethyl benzene	ug/kg	0.31	U	0.18	U	0.23	U	0.3	U	0.22	U	0.26	U	0.26	U
SW8260B	Methyl Tertiary Ether	ug/kg	0.31	U	0.18	U	0.23	U	0.3	U	0.22	U	0.26	U	0.26	U
SW8260B	Toluene	ug/kg	0.31	U	0.18	U	0.23	U	0.3	U	0.22	U	0.26	U	0.26	U
SW8260B	Xylene, o	ug/kg	0.31	U	0.18	U	0.23	U	0.3	U	0.22	U	0.26	U	0.26	U
SW8260B	Xylenes (m&p)	ug/kg	0.31	U	0.18	U	0.23	U	0.3	U	0.22	U	0.26	U	0.26	U
SW8260B	Xylenes, Total	ug/kg	0.31	U	0.18	U	0.23	U	0.3	U	0.22	U	0.26	U	0.26	U
SW8082	Acroclor-1016	mg/kg	0.31	U	0.18	U	0.23	U	0.3	U	0.22	U	0.26	U	0.26	U
SW8082	Acroclor-1221	mg/kg	0.31	U	0.18	U	0.23	U	0.3	U	0.22	U	0.26	U	0.26	U
SW8082	Acroclor-1232	mg/kg	0.31	U	0.18	U	0.23	U	0.3	U	0.22	U	0.26	U	0.26	U
SW8082	Acroclor-1242	mg/kg	0.31	U	0.18	U	0.23	U	0.3	U	0.22	U	0.26	U	0.26	U
SW8082	Acroclor-1248	mg/kg	0.31	U	0.18	U	0.23	U	0.3	U	0.22	U	0.26	U	0.26	U
SW8082	Acroclor-1254	mg/kg	0.31	U	0.18	U	0.23	U	0.3	U	0.22	U	0.26	U	0.26	U
SW8082	Acroclor-1260	mg/kg	0.31	U	0.18	U	0.23	U	0.3	U	0.22	U	0.26	U	0.26	U
SW8082	PCB (total)	mg/kg	0.31	U	0.18	U	0.23	U	0.3	U	0.22	U	0.26	U	0.26	U
E160.3	Percent Moisture	percent	23		3.6		11		22		11		16		16	
E160.3	Percent Solids	percent	77		96		89		78		89		84		84	

Notes:

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ug/kg - micrograms per kilogram

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Sample Delivery Group		480-21267-1	480-21267-1	480-21267-1	480-21267-1	480-21267-1
Location		DP-222	DP-222	DP-223	DP-223	DP-224
Sample Date		6/12/2012	6/12/2012	6/12/2012	6/12/2012	6/12/2012
Sample ID		MPDP22200412XX	MPDP22200012XX	MPDP22300212XX	MPDP22300012XD	MPDP22400212XX
Analysis	Parameter	Qc Code	Result	Qualifier	Result	Qualifier
SW8260B	Benzene	ug/kg	0.29 U	0.24 U	0.19 U	0.19 U
SW8260B	Ethyl benzene	ug/kg	0.29 U	0.24 U	0.19 U	0.25 U
SW8260B	Methyl Tertiary Ether	ug/kg	0.29 U	0.24 U	0.19 U	0.25 U
SW8260B	Toluene	ug/kg	0.29 U	0.24 U	0.19 U	0.25 U
SW8260B	Xylene, o	ug/kg	0.29 U	0.24 U	0.19 U	0.25 U
SW8260B	Xylenes (m&p)	ug/kg	0.29 U	0.24 U	0.19 U	0.25 U
SW8260B	Xylenes, Total	ug/kg	0.29 U	0.24 U	0.19 U	0.25 U
SW8082	Acroclor-1016	mg/kg	0.26 U	0.24 U	0.19 U	0.25 U
SW8082	Acroclor-1221	mg/kg	0.26 U	0.24 U	0.19 U	0.25 U
SW8082	Acroclor-1232	mg/kg	0.26 U	0.24 U	0.19 U	0.25 U
SW8082	Acroclor-1242	mg/kg	0.26 U	0.24 U	0.19 U	0.25 U
SW8082	Acroclor-1248	mg/kg	0.26 U	0.24 U	0.19 U	0.25 U
SW8082	Acroclor-1254	mg/kg	0.26 U	0.24 U	0.19 U	0.25 U
SW8082	Acroclor-1260	mg/kg	0.26 U	0.24 U	0.19 U	0.25 U
SW8082	PCB (total)	mg/kg	6.5	0.24 U	5.6	0.22 J
E160.3	Percent Moisture	percent	19	16	5.6	1.9
E160.3	Percent Solids	percent	81	84	95	98

Notes:

mg/kg = milligrams per kilogram

ug/kg - micrograms per kilogram

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TABLE 2- RESULTS SUMMARY
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3456 ONEIDA STREET
NEW HARTFORD, NEW YORK

Sample Delivery Group			Location		Sample Date		Sample ID		Qc Code	
Analysis	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260B	Benzene	ug/kg	480-21267-1 DP-224		480-21267-1 DP-225		480-21267-2 DP-221		480-21267-2 DP-223	
SW8260B	Ethyl benzene	ug/kg	6/12/2012		6/12/2012		6/12/2012		6/12/2012	
SW8260B	Methyl Tertbutyl Ether	ug/kg	MPDP22400012XX	FS	MPDP22500212XX	FS	MPDP22100412XX	FS	MPDP22300412XX	FS
SW8260B	Toluene	ug/kg								
SW8260B	Xylene, o	ug/kg								
SW8260B	Xylenes (m&p)	ug/kg								
SW8260B	Xylenes, Total	ug/kg								
SW8082	Aroclor-1016	mg/kg	0.19 U		0.23 U		0.26 U		0.25 U	
SW8082	Aroclor-1221	mg/kg	0.19 U		0.23 U		0.26 U		0.24 U	
SW8082	Aroclor-1232	mg/kg	0.19 U		0.23 U		0.26 U		0.24 U	
SW8082	Aroclor-1242	mg/kg	0.19 U		0.23 U		0.26 U		0.24 U	
SW8082	Aroclor-1248	mg/kg	0.19 U		0.23 U		0.26 U		0.24 U	
SW8082	Aroclor-1254	mg/kg	1.3		0.92		0.26 U		0.25 U	
SW8082	Aroclor-1260	mg/kg	0.19 U		0.23 U		0.26 U		0.25 U	
SW8082	PCB (total)	mg/kg	1.3		0.92		0.26 U		0.25 U	
E160.3	Percent Moisture	percent	2.2		5.1		16		23	
E160.3	Percent Solids	percent	98		95		84		77	

Notes:

mg/kg = milligrams per kilogram

ug/kg - micrograms per kilogram

Qualifiers:

U = not detected, value is the reporting limit

J = value is estimated

FS = Field Sample

FD = Field Duplicate Sample

TABLE 2- RESULTS SUMMARY
CHEMISTRY REVIEW REPORT
2012 SOIL SAMPLING EVENT
3456 ONEIDA STREET
NEW HARTFORD, NEW YORK

Sample Delivery Group			480-21276-1	480-21276-1	480-21276-1	480-21276-1	480-21276-1	
Location	Sample Date	Sample ID	DP-226 6/12/2012	DP-226 6/12/2012	DP-227 6/12/2012	DP-227 6/12/2012	DP-228 6/12/2012	
Qc Code	Result	Qualifier	MPDP22600212XX FS	MPDP22600012XX FS	MPDP22700212XX FS	MPDP22700012XX FS	MPDP22800212XX FS	
Analysis	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260B	Benzene	ug/kg						
SW8260B	Ethyl benzene	ug/kg						
SW8260B	Methyl Tertbutyl Ether	ug/kg						
SW8260B	Toluene	ug/kg						
SW8260B	Xylene, o	ug/kg						
SW8260B	Xylenes (m&p)	ug/kg						
SW8260B	Xylenes, Total	ug/kg						
SW8082	Arclor-1016	mg/kg	0.3 U	0.23 U	0.26 U	0.19 U	0.24 U	0.22 U
SW8082	Arclor-1221	mg/kg	0.3 U	0.23 U	0.26 U	0.19 U	0.24 U	0.22 U
SW8082	Arclor-1232	mg/kg	0.3 U	0.23 U	0.26 U	0.19 U	0.24 U	0.22 U
SW8082	Arclor-1242	mg/kg	0.3 U	0.23 U	0.26 U	0.19 U	0.24 U	0.22 U
SW8082	Arclor-1248	mg/kg	0.3 U	0.23 U	0.26 U	0.19 U	0.24 U	0.22 U
SW8082	Arclor-1254	mg/kg	0.3 U	0.23 U	0.26 U	0.19 U	0.24 U	0.22 U
SW8082	Arclor-1260	mg/kg	0.3 U	0.23 U	0.26 U	0.19 U	0.24 U	0.22 U
SW8082	PCB (total)	mg/kg	0.3 U	1.3	0.26 U	1.4	0.24 U	2.8
E160.3	Percent Moisture	percent	25	9.9	26	9.1	19	11
E160.3	Percent Solids	percent	75	90	74	91	81	89

Notes:

mg/kg = milligrams per kilogram

µg/kg - micrograms per kilogram

Qualifiers:

|U = not detected, value is the reporting limit

J = value is estimated

FS = Field Sample

FD = Field Duplicate Sample

TABLE 2- RESULTS SUMMARY
CHEMISTRY REVIEW REPORT
2012 SOIL SAMPLING EVENT
3456 ONEIDA STREET
NEW HARTFORD, NEW YORK

Sample Delivery Group		480-21276-1	480-21276-1	480-21276-1	480-21276-1	480-21278-1
Location		DP-229	DP-229	DP-230	DP-230	DP-231
Sample Date		6/12/2012	6/12/2012	6/13/2012	6/13/2012	6/13/2012
Sample ID		MPDP22900212XX	MPDP22900012XX	MPDP23000212XX	MPDP23000012XD	MPDP23100212XX
Qc Code		FS	FS	FS	FD	FS
Analysis	Parameter	Units	Result	Qualifier	Result	Qualifier
SW8260B	Benzene	ug/kg	0.22	U	0.23	U
SW8260B	Ethyl benzene	ug/kg	0.22	U	0.23	U
SW8260B	Methyl Tertiary Ether	ug/kg	0.22	U	0.23	U
SW8260B	Toluene	ug/kg	0.22	U	0.23	U
SW8260B	Xylene, o	ug/kg	0.22	U	0.23	U
SW8260B	Xylenes (m&p)	ug/kg	0.22	U	0.23	U
SW8260B	Xylenes, Total	ug/kg	0.22	U	0.23	U
SW8082	Acroclor-1016	mg/kg	0.22	U	0.22	U
SW8082	Acroclor-1221	mg/kg	0.22	U	0.22	U
SW8082	Acroclor-1232	mg/kg	0.22	U	0.22	U
SW8082	Acroclor-1242	mg/kg	0.22	U	0.22	U
SW8082	Acroclor-1248	mg/kg	0.22	U	0.22	U
SW8082	Acroclor-1254	mg/kg	0.32	U	1.3	U
SW8082	Acroclor-1260	mg/kg	0.22	U	0.23	U
SW8082	PCB (total)	mg/kg	0.32	U	1.3	U
E160.3	Percent Moisture	percent	20		6.9	
E160.3	Percent Solids	percent	80		93	

Notes:

mg/kg = milligrams per kilogram

ug/kg - micrograms per kilogram

Qualifiers:

U = not detected, value is the reporting limit

J = value is estimated

FS = Field Sample

FD = Field Duplicate Sample

TABLE 2- RESULTS SUMMARY
CHEMISTRY REVIEW REPORT
2012 SOIL SAMPLING EVENT
3456 ONEIDA STREET
NEW HARTFORD, NEW YORK

Sample Delivery Group			480-21278-1	480-21278-1	480-21278-1	480-21278-1	480-21278-1
Location	Sample Date	Sample ID	DP-231	DP-232	DP-232	DP-233	DP-233
Sample ID	Sample ID	Qc Code	6/13/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012
Qc Code	Units	Result	FS	FS	FS	FS	FS
Parameter	Units	Qualifier	MPDP23100012XX	MPDP23200212XX	MPDP23200012XX	MPDP23300212XX	MPDP23400212XX
SW8260B	Benzene	ug/kg					
SW8260B	Ethyl benzene	ug/kg					
SW8260B	Methyl Tertiary Ether	ug/kg					
SW8260B	Toluene	ug/kg					
SW8260B	Xylene, o	ug/kg					
SW8260B	Xylenes (m&p)	ug/kg					
SW8260B	Xylenes, Total	ug/kg					
SW8082	Aroclor-1016	mg/kg	0.19 U	0.27 U	0.21 U	0.26 U	0.24 U
SW8082	Aroclor-1221	mg/kg	0.19 U	0.27 U	0.21 U	0.26 U	0.24 U
SW8082	Aroclor-1232	mg/kg	0.19 U	0.27 U	0.21 U	0.26 U	0.24 U
SW8082	Aroclor-1242	mg/kg	0.19 U	0.27 U	0.21 U	0.26 U	0.24 U
SW8082	Aroclor-1248	mg/kg	0.19 U	0.27 U	0.21 U	0.26 U	0.24 U
SW8082	Aroclor-1254	mg/kg	0.57	0.27 U	0.16 J	0.26 U	0.2 J
SW8082	Aroclor-1260	mg/kg	0.19 U	0.27 U	0.21 U	0.26 U	0.24 U
SW8082	PCB (total)	mg/kg	0.57	0.27 U	0.16 J	0.26 U	0.2 J
E160.3	Percent Moisture	percent	5.9	17	6.6	15	6.8
E160.3	Percent Solids	percent	94	83	93	85	93

Notes:

mg/kg = milligrams per kilogram

ug/kg - micrograms per kilogram

Qualifiers:

U = not detected, value is the reporting limit

J = value is estimated

FS = Field Sample

FD = Field Duplicate Sample

TABLE 2- RESULTS SUMMARY
CHEMISTRY REVIEW REPORT
2012 SOIL SAMPLING EVENT
3456 ONEIDA STREET
NEW HARTFORD, NEW YORK

Sample Delivery Group			480-21278-1			480-21278-1			480-21278-1			480-21278-1			480-23191-1			480-23191-1		
Location			DP-234			FP-014			FP-015			FP-016			DP-156			DP-157		
Sample Date			6/13/2012			6/13/2012			6/13/2012			6/13/2012			7/25/2012			7/25/2012		
Sample ID			MPDP23400012XX			MPFP01400112XX			MPFP01500112XX			MPFP01600112XX			MPDP15600012XX			MPDP15700012XX		
Qc Code			FS			FS			FS			FS			FS			FS		
Units			Result			Result			Result			Result			Result			Result		
Parameter			Qualifier			Qualifier			Qualifier			Qualifier			Qualifier			Qualifier		
SW8260B	Benzene	ug/kg	0.21	U		0.2	U		0.22	U		0.21	U		0.28	U		0.22	U	
SW8260B	Ethyl benzene	ug/kg	0.21	U		0.2	U		0.22	U		0.21	U		0.28	U		0.22	U	
SW8260B	Methyl Tertiary Ether	ug/kg	0.21	U		0.2	U		0.22	U		0.21	U		0.28	U		0.22	U	
SW8260B	Toluene	ug/kg	0.21	U		0.2	U		0.22	U		0.21	U		0.28	U		0.22	U	
SW8260B	Xylene, o	ug/kg	0.21	U		0.2	U		0.22	U		0.21	U		0.28	U		0.22	U	
SW8260B	Xylenes (m&p)	ug/kg	0.21	U		0.2	U		0.22	U		0.21	U		0.28	U		0.22	U	
SW8260B	Xylenes, Total	ug/kg	0.21	U		0.2	U		0.22	U		0.21	U		0.28	U		0.22	U	
SW8082	Aroclor-1016	mg/kg	0.21	U		0.2	U		0.22	U		0.21	U		0.28	U		0.22	U	
SW8082	Aroclor-1221	mg/kg	0.21	U		0.2	U		0.22	U		0.21	U		0.28	U		0.22	U	
SW8082	Aroclor-1232	mg/kg	0.21	U		0.2	U		0.22	U		0.21	U		0.28	U		0.22	U	
SW8082	Aroclor-1242	mg/kg	0.21	U		0.2	U		0.22	U		0.21	U		0.28	U		0.22	U	
SW8082	Aroclor-1248	mg/kg	0.21	U		0.2	U		0.22	U		0.21	U		0.28	U		0.22	U	
SW8082	Aroclor-1254	mg/kg	1.4			0.47			0.76			7.1			0.13	J		0.22	U	
SW8082	Aroclor-1260	mg/kg	0.21	U		0.2	U		0.22	U		0.21	U		0.28	U		0.22	U	
SW8082	PCB (total)	mg/kg	1.4			0.47			0.76			7.1			0.13	J		0.22	U	
SW8082	Percent Moisture	percent	5.3			6.3			8.4			7.9			14			16		
E160.3	Percent Solids	percent	95			94			92			92			86			84		

Notes:

mg/kg = milligrams per kilogram

ug/kg - micrograms per kilogram

Qualifiers:

U = not detected, value is the reporting limit

J = value is estimated

FS = Field Sample

FD = Field Duplicate Sample

TABLE 2- RESULTS SUMMARY
CHEMISTRY REVIEW REPORT
2012 SOIL SAMPLING EVENT
3456 ONEIDA STREET
NEW HARTFORD, NEW YORK

Sample Delivery Group		480-23191-1	480-23191-1	480-23191-1	480-23191-1	480-23191-1	480-23191-1
Location	Sample Date	DP-173 7/25/2012	DP-173 7/25/2012	DP-173 7/25/2012	DP-174 7/25/2012	DP-174 7/25/2012	DP-188 7/25/2012
Sample ID	Sample ID	MPDP17300212XX	MPDP17300012XD	MPDP17300012XX	MPDP17400212XX	MPDP17400012XX	MPDP18800212XX
Qc Code	Qc Code	FS	FD	FS	FS	FS	FS
Result	Result	Qualifier	Qualifier	Qualifier	Qualifier	Qualifier	Qualifier
Units	Units						
SW8260B	Benzene	ug/kg					
SW8260B	Ethyl benzene	ug/kg					
SW8260B	Methyl Tertbutyl Ether	ug/kg					
SW8260B	Toluene	ug/kg					
SW8260B	Xylene, o	ug/kg					
SW8260B	Xylenes (m&p)	ug/kg					
SW8260B	Xylenes, Total	ug/kg					
SW8082	ArcoIor-1016	mg/kg	0.27 U	0.24 U	0.24 U	0.28 U	0.25 U
SW8082	ArcoIor-1221	mg/kg	0.27 U	0.24 U	0.24 U	0.28 U	0.25 U
SW8082	ArcoIor-1232	mg/kg	0.27 U	0.24 U	0.24 U	0.28 U	0.25 U
SW8082	ArcoIor-1242	mg/kg	0.27 U	0.24 U	0.24 U	0.28 U	0.25 U
SW8082	ArcoIor-1248	mg/kg	0.27 U	0.24 U	0.24 U	0.28 U	0.25 U
SW8082	ArcoIor-1254	mg/kg	0.27 U	0.3	0.41	1.8	0.14 J
SW8082	ArcoIor-1260	mg/kg	0.27 U	0.24 U	0.24 U	0.28 U	0.25 U
SW8082	PCB (total)	mg/kg	0.27 U	0.3	0.41	1.8	0.14 J
E160.3	Percent Moisture	percent	15	17	16	12	6.7
E160.3	Percent Solids	percent	85	83	84	88	93

mg/kg = milligrams per kilogram
ug/kg - micrograms per kilogram

Qualifiers:

U = not detected, value is the reporting limit

J = value is estimated

FS = Field Sample

FD = Field Duplicate Sample

TABLE 2- RESULTS SUMMARY
CHEMISTRY REVIEW REPORT
2012 SOIL SAMPLING EVENT
3456 ONEIDA STREET
NEW HARTFORD, NEW YORK

Sample Delivery Group			480-23191-1	480-23191-1	480-23191-1	480-23191-1	480-23191-1	480-23191-1
Location			DP-188	DP-189	DP-189	DP-189	DP-199	DP-199
Sample Date			7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012
Sample ID			MPDP18800012XX	MPDP18900212XX	MPDP18900412XX	MPDP18900012XX	MPDP19900212XX	MPDP19900412XX
Qc Code			FS	FS	FS	FS	FS	FS
Analysis	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260B	Benzene	ug/kg						
SW8260B	Ethyl benzene	ug/kg						
SW8260B	Methyl Tertbutyl Ether	ug/kg						
SW8260B	Toluene	ug/kg						
SW8260B	Xylene, o	ug/kg						
SW8260B	Xylenes (m&p)	ug/kg						
SW8260B	Xylenes, Total	ug/kg						
SW8082	Aroclor-1016	mg/kg	0.28 U		0.22 U		0.23 U	0.22 U
SW8082	Aroclor-1221	mg/kg	0.28 U		0.2 U		0.23 U	0.22 U
SW8082	Aroclor-1232	mg/kg	0.28 U		0.2 U		0.23 U	0.22 U
SW8082	Aroclor-1242	mg/kg	0.28 U		0.2 U		0.23 U	0.22 U
SW8082	Aroclor-1248	mg/kg	0.28 U		0.2 U		0.38	0.22 U
SW8082	Aroclor-1254	mg/kg	2.3		0.2 U		0.23 U	0.22 U
SW8082	Aroclor-1260	mg/kg	0.28 U		0.2 U		0.38	0.22 U
SW8082	PCB (total)	mg/kg	2.3		0.29		10	0.22 U
E160.3	Percent Moisture	percent	15		9.5		6.5	
E160.3	Percent Solids	percent	85		90		93	82

Notes:

mg/kg = milligrams per kilogram

ug/kg - micrograms per kilogram

Qualifiers:

U = not detected, value is the reporting limit

J = value is estimated

FS = Field Sample

FD = Field Duplicate Sample

TABLE 2--RESULTS SUMMARY
CHEMISTRY REVIEW REPORT
2012 SOIL SAMPLING EVENT
3456 ONEIDA STREET
NEW HARTFORD, NEW YORK

Sample Delivery Group		480-23191-1	480-23191-1	480-23191-1	480-23191-1	480-23191-1
Location		DP-199	DP-199	DP-199	DP-200	DP-200
Sample Date		7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012
Sample ID		MPDP19900612XX	MPDP19900812XX	MPDP19900012XX	MPDP20000012XX	MPDP20000012XX
Qc Code		FS	FS	FS	FD	FS
Analysis	Parameter	Result	Qualifier	Result	Qualifier	Result
SW8260B	Benzene	ug/kg				
SW8260B	Ethyl benzene	ug/kg				
SW8260B	Methyl Tertiary Ether	ug/kg				
SW8260B	Toluene	ug/kg				
SW8260B	Xylene, o	ug/kg				
SW8260B	Xylenes (m&p)	ug/kg				
SW8260B	Xylenes, Total	ug/kg				
SW8082	Aroclor-1016	mg/kg	0.24 U	0.26 U	0.25 U	0.32 U
SW8082	Aroclor-1221	mg/kg	0.24 U	0.19 U	0.25 U	0.32 U
SW8082	Aroclor-1232	mg/kg	0.24 U	0.19 U	0.25 U	0.32 U
SW8082	Aroclor-1242	mg/kg	0.24 U	0.19 U	0.25 U	0.32 U
SW8082	Aroclor-1248	mg/kg	0.24 U	0.19 U	0.25 U	0.32 U
SW8082	Aroclor-1254	mg/kg	0.24 U	0.19 U	0.25 U	0.32 U
SW8082	Aroclor-1260	mg/kg	0.24 U	0.19 U	0.25 U	0.32 U
SW8082	PCB (total)	mg/kg	0.24 U	0.19 U	0.25 U	0.32 U
E160.3	Percent Moisture	percent	13	7.3	16	27
E160.3	Percent Solids	percent	87	93	84	73

Notes:

mg/kg = milligrams per kilogram

ug/kg - micrograms per kilogram

Qualifiers:

U = not detected, value is the reporting limit

J = value is estimated

FS = Field Sample

FD = Field Duplicate Sample

TABLE 2- RESULTS SUMMARY
 CHEMISTRY REVIEW REPORT
 2012 SOIL SAMPLING EVENT
 3456 ONEIDA STREET
 NEW HARTFORD, NEW YORK

Sample Delivery Group		Location	Sample Date	Sample ID	QC Code	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
480-21261-1		QC	6/12/2012	Trip Blank	TB								
480-21261-1		QC	6/12/2012	MPQS012XXX12XX	EB								
480-21278-1		QC	6/13/2012	MPQS013XXX12XX	EB								
480-23191-1		QC	7/25/2012	MPQS014XXX12XX	EB								
480-23191-1		QC	7/25/2012	MPQS015XXX12XX	EB								
Analysis	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result
SW8260B	Benzene	ug/l	1 U		1 U								
SW8260B	Ethyl benzene	ug/l	1 U		1 U								
SW8260B	Toluene	ug/l	1 U		1 U								
SW8260B	Xylene, o	ug/l	1 U		1 U								
SW8260B	Xylenes (m&p)	ug/l	2 U		2 U								
SW8260B	Xylenes, Total	ug/l	2 U		2 U								
SW8082	Aroclor-1016	ug/l	0.51 U		0.47 U								0.49 U
SW8082	Aroclor-1221	ug/l	0.51 U		0.47 U								0.49 U
SW8082	Aroclor-1232	ug/l	0.51 U		0.47 U								0.49 U
SW8082	Aroclor-1242	ug/l	0.51 U		0.47 U								0.49 U
SW8082	Aroclor-1248	ug/l	0.51 U		0.47 U								0.49 U
SW8082	Aroclor-1254	ug/l	0.51 U		0.47 U								0.49 U
SW8082	Aroclor-1260	ug/l	0.51 U		0.47 U								0.49 U

Notes:

ug/l - micograms per liter

TB = Trip Blanks EB = Rinse Blank

Qualifiers:

U = not detected, value is the reporting limit

PCBs

No Quals

NYSDEC PROJECT CHEMIST REVIEW RECORD

Project: 3456 Oneida Street

Method : SW-846 8082

Laboratory and SDG(s): Test America-Buffalo SDG: 480-21261-1

Date: 8-23-12

Reviewer: Tige Cunningham

Review Level ☒ Chemist Review

- 1.
- ☒
- Case Narrative Review and Data Package Completeness

COMMENTS

Where all the samples on the COC analyzed for the requested analyses? ☒ YES ☐ NO (circle one)

- 2.
- ☒
- Holding time and Sample Collection

Aqueous hold time is 7 days to extraction, solid is 14 days.

Hold time met for all samples? ☒ YES ☐ NO (circle one)

- 3.
- ☒
- QC Blanks

Are method blanks free of contamination? ☒ YES ☐ NO (circle one)Are Rinse blanks free of contamination? ☒ YES ☐ NO ☐ NA (circle one)

Rinse blank MPQ5012XXX12XX

- 4.
- ☒
- Surrogate Recovery (soil and water limits: 30-150%)

Were all results were within limits? ☒ YES ☐ NO (circle one)

- 5.
- ☒
- Matrix Spike (soil and water limits: 29-135% and RPD of 20, RPD is 15 for Aroclor 1016)

PCB 1016 / 1260
Were MS/MSDs submitted/analyzed? ☒ YES ☐ NO (circle one) MPDP 21000012XXWere all results were within limits? ☒ YES ☐ NO ☐ NA (circle one)

- 6.
- ☒
- Field Duplicates (RPD limits for soil=100, water = 50)

Were Field Duplicates submitted/analyzed? ☒ YES ☐ NO MPDP 21000012XXWere RPDs within the limits? ☒ YES ☐ NO ☐ NA (circle one)

- 7.
- ☒
- Laboratory Control Sample Results (soil and water percent recovery limits: 50-150%)

Were all results were within limits? ☒ YES ☐ NO (circle one)

- 8.
- ☒
- Electronic Data Review and Edits

Does the EDD match the Form I's? YES ☒ NO (circle one)

- 9.
- ☒
- DUSR Table 1 (sample Listing), Table 2 (results summary), Table 3 (Reason Codes).

Were all tables produced? ☒ YES ☐ NO (circle one)

Missing MPDP 21700212XX - OK lab submitted Rev 2 report on 8/24/12

VOCs

BTEX only

No Quals

PROJECT CHEMIST REVIEW RECORD

Project: 3456 Oneida Street

Method: SW-846 8260B

Laboratory and SDG(s): TAL-Buffalo SDG# 480-21261-1

Date: 8/23/12

Reviewer: Tige Coanish

Review Level ☒ Chemist Review1. ☒ Case Narrative Review and COC/Data Package Completeness

COMMENTS

Were problems noted? None

Were all the samples on the COC analyzed for the requested analyses? ☒ YES NO (circle one)2. ☒ Holding time and Sample CollectionAll samples were analyzed within the 14 day holding time. ☒ YES NO (circle one)3. ☒ QC BlanksAre method blanks free of contamination? ☒ YES NO (circle one)Are Trip blanks free of contamination? ☒ YES NO (circle one)Are Rinse blanks free of contamination? ☒ YES NO NA (circle one)

Rinse blank: MPQS012XXX12XX

4. ☒ Surrogate Recovery - Region II limits (water 80-120%, soil 70-130%)Were all results were within Region II limits? ☒ YES NO (circle one)5. ☒ Matrix Spike - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)Were MS/MSDs submitted/analyzed? ☒ YES NO

MPDP21600012XX

Were all results were within the Region II limits? YES ☒ NO NA (circle one)

MTBE out at 181% in MS, Benzene 135% and MTBE @ 191% in MSD

6. ☒ Duplicates/replicates - Region II Limits (water RPD 50, soil RPD 100)

NO hits NO Quals

Were Field Duplicates submitted/analyzed? ☒ YES NO

MPDP21600012XX

Were all results were within Region II Limits? ☒ YES NO NA (circle one)7. ☒ Laboratory Control Sample Results - Region II (Water and soil 70-130%)Were all results were within Region II control limits? ☒ YES NO (circle one)8. ☒ Electronic Data Review and EditsDoes the EDD match the Form I's? ☒ YES NO (circle one)9. ☒ TIC Review and DUSR Table 1 (sample Listing), Table 2 (results summary), Table 3 (Reason Codes), Table 4 (TIC's). Did lab report TICs? YES ☒ NO (circle one)

QC Sample Results

Client: New York State D.E.C.
Project/Site: Oneida St New Hartford # 633049

TestAmerica Job ID: 480-21261-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-21261-14 MSD

Matrix: Solid

Analysis Batch: 69561

Client Sample ID: MPDP21600012XX

Prep Type: Total/NA

Prep Batch: 69263

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		27.4	37.1	F	ug/Kg	⊗	135	79 - 127	5	30
Toluene	ND		27.4	29.6		ug/Kg	⊗	108	74 - 128	9	30
Ethylbenzene	ND		27.4	26.0		ug/Kg	⊗	95	80 - 120	12	30
m-Xylene & p-Xylene	ND		54.8	50.5		ug/Kg	⊗	92	70 - 130	12	30
o-Xylene	ND		27.4	26.8		ug/Kg	⊗	98	70 - 130	5	30
Methyl tert-butyl ether	ND		27.4	52.3	F	ug/Kg	⊗	191	63 - 125	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		64 - 126
Toluene-d8 (Surr)	83		71 - 125
4-Bromofluorobenzene (Surr)	86		72 - 126

NO Quals
NO hits

Lab Sample ID: MB 480-69561/6

Matrix: Solid

Analysis Batch: 69561

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	0.25	ug/Kg			06/21/12 22:37	1
Toluene	ND		5.0	0.38	ug/Kg			06/21/12 22:37	1
Ethylbenzene	ND		5.0	0.35	ug/Kg			06/21/12 22:37	1
m-Xylene & p-Xylene	ND		10	0.84	ug/Kg			06/21/12 22:37	1
o-Xylene	ND		5.0	0.65	ug/Kg			06/21/12 22:37	1
Xylenes, Total	ND		10	0.84	ug/Kg			06/21/12 22:37	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg			06/21/12 22:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		64 - 126		06/21/12 22:37	1
Toluene-d8 (Surr)	89		71 - 125		06/21/12 22:37	1
4-Bromofluorobenzene (Surr)	88		72 - 126		06/21/12 22:37	1

Lab Sample ID: LCS 480-69561/5

Matrix: Solid

Analysis Batch: 69561

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	48.7		ug/Kg		97	79 - 127
Toluene	50.0	46.4		ug/Kg		93	74 - 128
Ethylbenzene	50.0	47.4		ug/Kg		95	80 - 120
m-Xylene & p-Xylene	100	94.5		ug/Kg		95	70 - 130
o-Xylene	50.0	48.7		ug/Kg		97	70 - 130
Methyl tert-butyl ether	50.0	54.4		ug/Kg		109	63 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		64 - 126
Toluene-d8 (Surr)	90		71 - 125
4-Bromofluorobenzene (Surr)	91		72 - 126

8/23/12
TC
✓

No Quals

PCBs

NYSDEC PROJECT CHEMIST REVIEW RECORD

Project: 3456 Oneida Street

Method : SW-846 8082

Laboratory and SDG(s): Test America-Buffalo SDG: 480- 21241-2

Date: 8-24-12

Reviewer: Tige Cunningham

Review Level ☒ Chemist Review

1. ☒ Case Narrative Review and Data Package Completeness

COMMENTS

Where all the samples on the COC analyzed for the requested analyses? ☒ YES ☐ NO (circle one)

2. ☒ Holding time and Sample Collection

Aqueous hold time is 7 days to extraction, solid is 14 days.

Hold time met for all samples? ☒ YES ☐ NO (circle one)

3. ☒ QC Blanks

Are method blanks free of contamination? ☒ YES ☐ NO (circle one)

Are Rinse blanks free of contamination? YES ☐ NO ☒ NA (circle one)

4. ☒ Surrogate Recovery (soil and water limits: 30-150%)

Were all results were within limits? ☒ YES ☐ NO (circle one)

5. ☒ Matrix Spike (soil and water limits: 29-135% and RPD of 20, RPD is 15 for Aroclor 1016)

Were MS/MSDs submitted/analyzed? YES ☒ NO (circle one)

Were all results were within limits? YES ☐ NO ☒ NA (circle one)

6. ☒ Field Duplicates (RPD limits for soil=100, water = 50)

Were Field Duplicates submitted/analyzed? YES ☒ NO (circle one)

Were RPDs within the limits? YES ☐ NO ☒ NA (circle one)

7. ☒ Laboratory Control Sample Results (soil and water percent recovery limits: 50-150%)

Were all results were within limits? ☒ YES ☐ NO (circle one) PCB 1016/1260

8. ☒ Electronic Data Review and Edits

Does the EDD match the Form I's? ☒ YES ☐ NO (circle one)

9. ☒ DUSR Table 1 (sample Listing), Table 2 (results summary), Table 3 (Reason Codes).

Were all tables produced? ☒ YES ☐ NO (circle one)

No Quals

PCBs

NYSDEC PROJECT CHEMIST REVIEW RECORD

Project: 3456 Oneida Street

Method : SW-846 8082

Laboratory and SDG(s): Test America-Buffalo

SDG: 480- 21267-1

Date: 8/24/12

Reviewer: Tige Cunningham

Review Level ☒ Chemist Review

1. ☒ Case Narrative Review and Data Package Completeness

COMMENTS

Where all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

2. ☒ Holding time and Sample Collection

Aqueous hold time is 7 days to extraction, solid is 14 days.

Hold time met for all samples? YES NO (circle one)

3. ☒ QC Blanks

Are method blanks free of contamination? YES NO (circle one)

Are Rinse blanks free of contamination? YES NO NA (circle one)

4. ☒ Surrogate Recovery (soil and water limits: 30-150%)

Were all results were within limits? YES NO (circle one)

5. ☒ Matrix Spike (soil and water limits: 29-135% and RPD of 20, RPD is 15 for Aroclor 1016)

Were MS/MSDs submitted/analyzed? YES NO (circle one) MPDP 22300012XX

Were all results were within limits? YES NO NA (circle one)

6. ☒ Field Duplicates (RPD limits for soil=100, water=50) Aroclors 1260 out ↑ 182%/198% no detections in unspiked sample of Aroclor 1260, no Quals.

Were Field Duplicates submitted/analyzed? YES NO

MPDP 22300012XX: FD
Were RPDs within the limits? YES NO NA (circle one)

7. ☒ Laboratory Control Sample Results (soil and water percent recovery limits: 50-150%)

Were all results were within limits? YES NO (circle one) PCB 1260/1016 w/in limits

8. ☒ Electronic Data Review and Edits

Does the EDD match the Form I's? YES NO (circle one)

9. ☒ DUSR Table 1 (sample Listing), Table 2 (results summary), Table 3 (Reason Codes).

Were all tables produced? YES NO (circle one)

QC Sample Results

Client: New York State D.E.C.
Project/Site: Oneida St New Hartford # 633049

TestAmerica Job ID: 480-21267-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-68611/1-A

Matrix: Solid

Analysis Batch: 68874

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.18	0.036	mg/Kg		06/15/12 09:29	06/18/12 11:04	1
PCB-1221	ND		0.18	0.036	mg/Kg		06/15/12 09:29	06/18/12 11:04	1
PCB-1232	ND		0.18	0.036	mg/Kg		06/15/12 09:29	06/18/12 11:04	1
PCB-1242	ND		0.18	0.036	mg/Kg		06/15/12 09:29	06/18/12 11:04	1
PCB-1248	ND		0.18	0.036	mg/Kg		06/15/12 09:29	06/18/12 11:04	1
PCB-1254	ND		0.18	0.086	mg/Kg		06/15/12 09:29	06/18/12 11:04	1
PCB-1260	ND		0.18	0.086	mg/Kg		06/15/12 09:29	06/18/12 11:04	1
Polychlorinated biphenyls, Total	ND		0.18	0.086	mg/Kg		06/15/12 09:29	06/18/12 11:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	99		36 - 182	06/15/12 09:29	06/18/12 11:04	1
Tetrachloro-m-xylene	131		24 - 172	06/15/12 09:29	06/18/12 11:04	1

Lab Sample ID: LCS 480-68611/2-A

Matrix: Solid

Analysis Batch: 68874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.87	2.34		mg/Kg		125	51 - 185
PCB-1260	1.87	2.17		mg/Kg		116	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	115		36 - 182
Tetrachloro-m-xylene	147		24 - 172

Lab Sample ID: 480-21267-9 MS

Matrix: Solid

Analysis Batch: 68874

Client Sample ID: MPDP22300012XX

Prep Type: Total/NA

Prep Batch: 68611

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		2.10	2.87		mg/Kg	22	137	42 - 159
PCB-1260	ND		2.10	3.82	F	mg/Kg	22	182	47 - 153

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	126		36 - 182
Tetrachloro-m-xylene	152		24 - 172

PCB 1260 not detected
4 in sample ok
no Qals

Lab Sample ID: 480-21267-9 MSD

Matrix: Solid

Analysis Batch: 68874

Client Sample ID: MPDP22300012XX

Prep Type: Total/NA

Prep Batch: 68611

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1.95	2.68		mg/Kg	22	138	42 - 159	7	50
PCB-1260	ND		1.95	3.86	F	mg/Kg	22	198	47 - 153	1	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	124		36 - 182
Tetrachloro-m-xylene	150		24 - 172

8/2/12
TC

No Quals

PCBs

NYSDEC PROJECT CHEMIST REVIEW RECORD

Project: 3456 Oneida Street

Method : SW-846 8082

Laboratory and SDG(s): Test America-Buffalo

SDG: 480-

Date: 8-24-12

Reviewer: Tige Cunningham

Review Level ☒ Chemist Review

21207-2

1. ☒ Case Narrative Review and Data Package Completeness

COMMENTS

Where all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

2. ☒ Holding time and Sample Collection

Aqueous hold time is 7 days to extraction, solid is 14 days.

Hold time met for all samples? YES NO (circle one)

3. ☒ QC Blanks

Are method blanks free of contamination? YES NO (circle one)

Are Rinse blanks free of contamination? YES NO NA (circle one)

4. ☒ Surrogate Recovery (soil and water limits: 30-150%)

Were all results were within limits? YES NO (circle one)

5. ☒ Matrix Spike (soil and water limits: 29-135% and RPD of 20, RPD is 15 for Aroclor 1016)

Were MS/MSDs submitted/analyzed? YES NO (circle one)

Were all results were within limits? YES NO NA (circle one)

6. ☒ Field Duplicates (RPD limits for soil=100, water = 50)

Were Field Duplicates submitted/analyzed? YES NO (circle one)

Were RPDs within the limits? YES NO NA (circle one)

7. ☒ Laboratory Control Sample Results (soil and water percent recovery limits: 50-150%)

Were all results were within limits? YES NO (circle one) Aroclor 1016/1260 OK

8. ☒ Electronic Data Review and Edits

Does the EDD match the Form I's? YES NO (circle one)

9. ☒ DUSR Table 1 (sample Listing), Table 2 (results summary), Table 3 (Reason Codes).

Were all tables produced? YES NO (circle one)

No Quals

PCBs

NYSDEC PROJECT CHEMIST REVIEW RECORD

Project: 3456 Oneida Street

Method: SW-846 8082

Laboratory and SDG(s): Test America-Buffalo SDG: 480- 21276-1

Date: 8-24-12

Reviewer: Tige Cunningham

Review Level ☒ Chemist Review

1. ☒ Case Narrative Review and Data Package Completeness

COMMENTS

Where all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

2. ☒ Holding time and Sample Collection

Aqueous hold time is 7 days to extraction, solid is 14 days.

Hold time met for all samples? YES NO (circle one)

3. ☒ QC Blanks

Are method blanks free of contamination? YES NO (circle one)

Are Rinse blanks free of contamination? YES NO NA (circle one)

4. ☒ Surrogate Recovery (soil and water limits: 30-150%)

Were all results were within limits? YES NO (circle one)

5. ☒ Matrix Spike (soil and water limits: 29-135% and RPD of 20, RPD is 15 for Aroclor 1016)

Were MS/MSDs submitted/analyzed? YES NO (circle one)

Were all results were within limits? YES NO NA (circle one)

6. ☒ Field Duplicates (RPD limits for soil=100, water = 50)

Were Field Duplicates submitted/analyzed? YES NO

Were RPDs within the limits? YES NO NA (circle one)

7. ☒ Laboratory Control Sample Results (soil and water percent recovery limits: 50-150%)

Were all results were within limits? YES NO (circle one)

8. ☒ Electronic Data Review and Edits

Does the EDD match the Form I's? YES NO (circle one)

9. ☒ DUSR Table 1 (sample Listing), Table 2 (results summary), Table 3 (Reason Codes).

Were all tables produced? YES NO (circle one)

PCBs and VOC's

NO QVALS
VOC is only on one
Rinse blank

NYSDEC PROJECT CHEMIST REVIEW RECORD

Project: 3456 Oneida Street

Method : SW-846 8082

Laboratory and SDG(s): Test America-Buffalo

SDG: 480- 21278-1

Date: 8-24-12

Reviewer: Tige Cunningham

Review Level ☒ Chemist Review

1. ☒ Case Narrative Review and Data Package Completeness

COMMENTS

Where all the samples on the COC analyzed for the requested analyses? ☒ YES ☐ NO (circle one)

2. ☒ Holding time and Sample Collection

Aqueous hold time is 7 days to extraction, solid is 14 days.

Hold time met for all samples? ☒ YES ☐ NO (circle one)

3. ☒ QC Blanks

Are method blanks free of contamination? ☒ YES ☐ NO (circle one)

Are Rinse blanks free of contamination? ☒ YES ☐ NO ☐ NA (circle one)

4. ☒ Surrogate Recovery (soil and water limits: 30-150%)

Were all results were within limits? YES ☒ NO (circle one)

5. ☒ Matrix Spike (soil and water limits: 29-135% and RPD of 20, RPD is 15 for Aroclor 1016)

Were MS/MSDs submitted/analyzed? YES ☒ NO (circle one)

Were all results were within limits? YES NO ☒ NA (circle one)

6. ☒ Field Duplicates (RPD limits for soil=100, water = 50)

Were Field Duplicates submitted/analyzed? YES ☒ NO (circle one)

Were RPDs within the limits? YES NO ☒ NA (circle one)

7. ☒ Laboratory Control Sample Results (soil and water percent recovery limits: 50-150%)

Were all results were within limits? ☒ YES ☐ NO (circle one)

8. ☒ Electronic Data Review and Edits

Does the EDD match the Form 1's? ☒ YES ☐ NO (circle one)

9. ☒ DUSR Table 1 (sample Listing), Table 2 (results summary), Table 3 (Reason Codes).

Were all tables produced? ☒ YES ☐ NO (circle one)

PCBs

NO Quals

NYSDEC PROJECT CHEMIST REVIEW RECORD

Project: 3456 Oneida Street

Method : SW-846 8082

Laboratory and SDG(s): Test America-Buffalo SDG: 480- 23/9/-1

Date: 8-24-12

Reviewer: Tige Cunningham

Review Level ☒ Chemist Review

- 1.
- ☒
- Case Narrative Review and Data Package Completeness

COMMENTS

Where all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

- 2.
- ☒
- Holding time and Sample Collection

Aqueous hold time is 7 days to extraction, solid is 14 days.

Hold time met for all samples? YES NO (circle one)

- 3.
- ☒
- QC Blanks

Are method blanks free of contamination? YES NO (circle one)

Are Rinse blanks free of contamination? YES NO NA (circle one)

- 4.
- ☒
- Surrogate Recovery (soil and water limits: 30-150%)

Were all results were within limits? YES NO (circle one)

- 5.
- ☒
- Matrix Spike (soil and water limits: 29-135% and RPD of 20, RPD is 15 for Aroclor 1016)

Were MS/MSDs submitted/analyzed? YES NO (circle one)

Were all results were within limits? YES NO NA (circle one)

- 6.
- ☒
- Field Duplicates (RPD limits for soil=100, water = 50)

Were Field Duplicates submitted/analyzed? YES NO

Were RPDs within the limits? YES NO NA (circle one)

- 7.
- ☒
- Laboratory Control Sample Results (soil and water percent recovery limits: 50-150%)

Were all results were within limits? YES NO (circle one)

- 8.
- ☒
- Electronic Data Review and Edits

Does the EDD match the Form I's? YES NO (circle one)

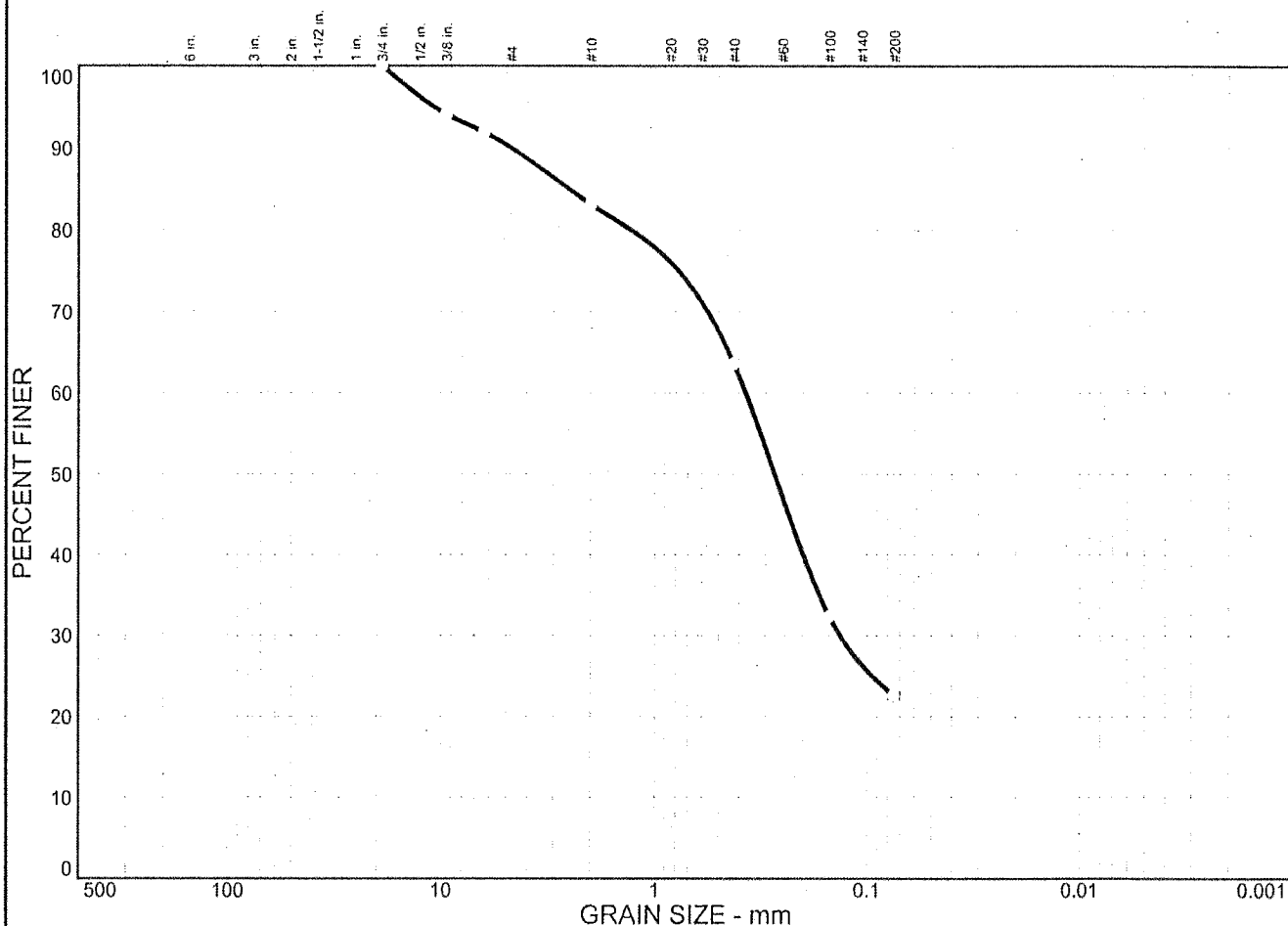
- 9.
- ☒
- DUSR Table 1 (sample Listing), Table 2 (results summary), Table 3 (Reason Codes).

Were all tables produced? YES NO (circle one)

ATTACHMENT 3

PARTICLE SIZE DISTRIBUTION REPORTS

Particle Size Distribution Report



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	10.0	67.4	22.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.75 in.	100.0		
0.375 in.	94.1		
0.25 in.	91.9		
#10	83.1		
#40	63.6		
#100	32.4		
#200	22.6		

* (no specification provided)

Soil Description
Silty sand

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₈₅= 2.55 D₆₀= 0.374 D₅₀= 0.272
 D₃₀= 0.133 D₁₅= D₁₀=
 C_u= C_c=

Classification
 USCS= SM AASHTO=

Remarks

Sample No.: 358
Location: GT-002

Source of Sample:

Date: 6-25-12
Elev./Depth: 4'-6'

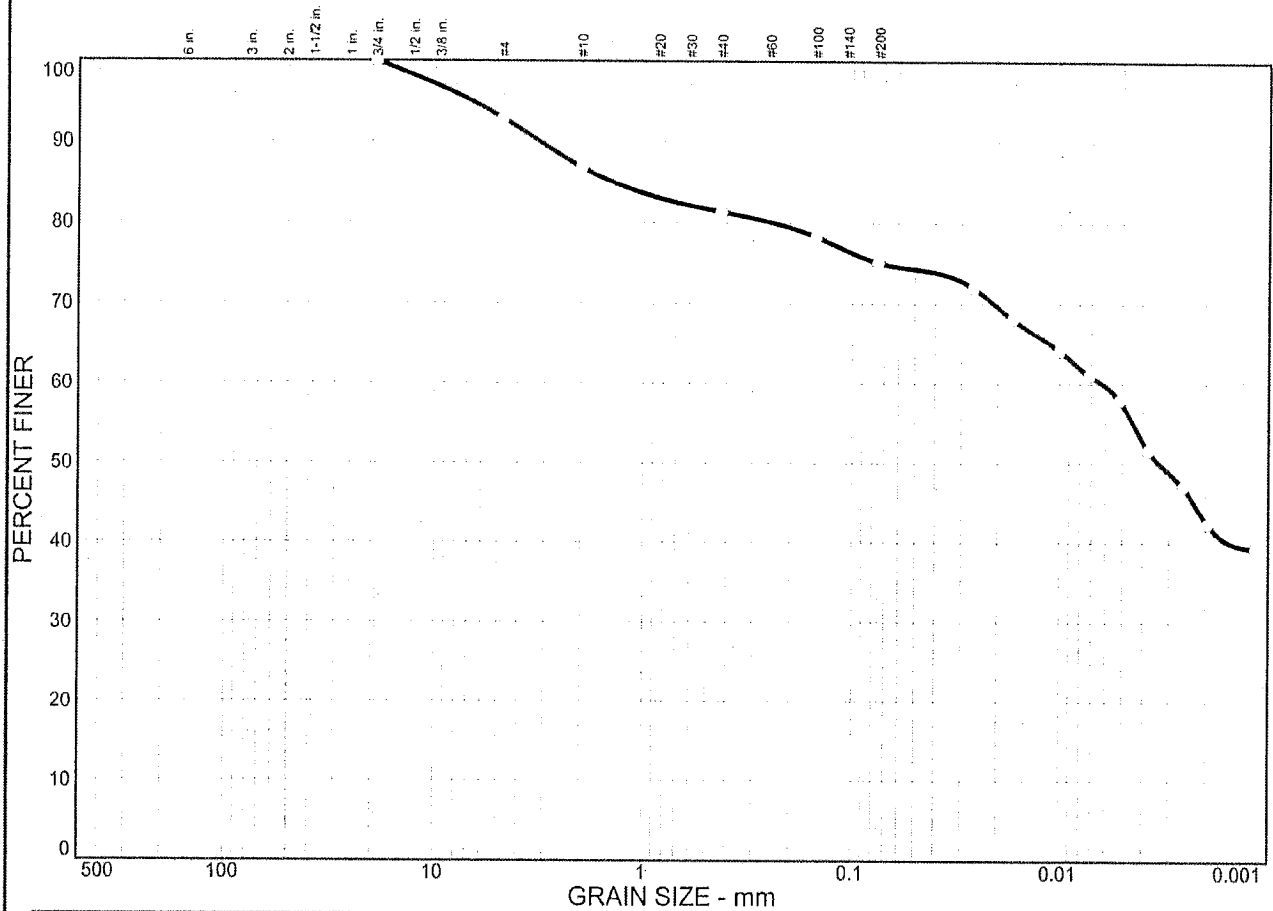
**SJB
SERVICES, INC.**

Client: AMEC
Project: Oneida Remedial Design Site

Project No: CT-12-103

Plate 358

Particle Size Distribution Report



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	7.2	17.7	17.6	57.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.75 in.	100.0		
#4	92.8		
#10	86.8		
#40	81.4		
#100	78.3		
#200	75.1		

* (no specification provided)

Soil Description
Silt with sand

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₈₅= 1.42 D₆₀= 0.0062 D₅₀= 0.0033
 D₃₀= D₁₅= D₁₀=
 C_u= C_c=

Classification
 USCS= ML AASHTO=

Remarks

Sample No.: 360
Location: GT-002

Source of Sample:

Date: 6-25-12
Elev./Depth: 10.0'-12.0'

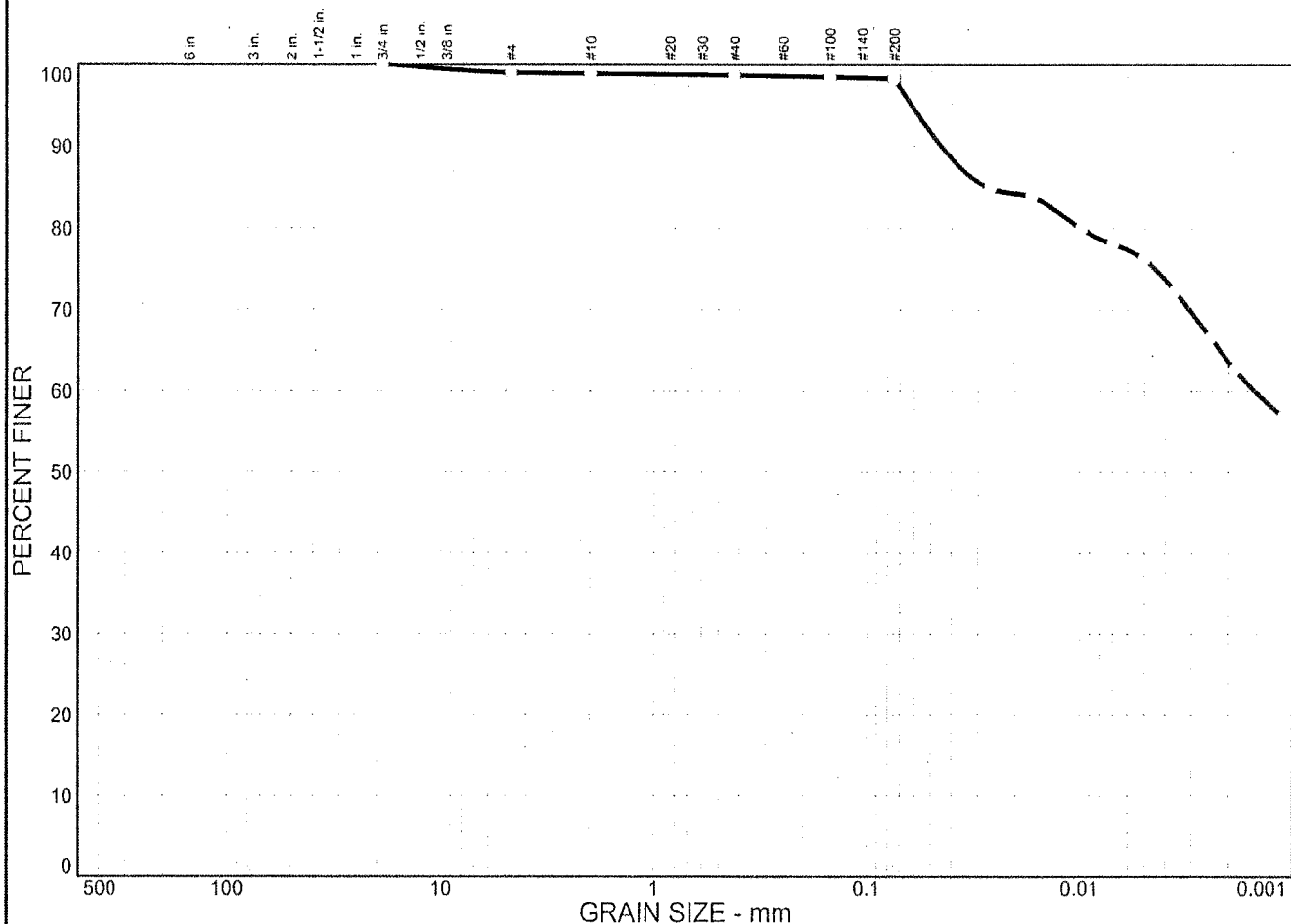
**SJB
SERVICES, INC.**

Client: AMEC
Project: Oncida Remedial Design Site

Project No: CT-12-103

Plate 360

Particle Size Distribution Report



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	1.1	0.7	22.0	76.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.75 in.	100.0		
#4	98.9		
#10	98.8		
#40	98.6		
#100	98.4		
#200	98.2		

* (no specification provided)

Soil Description
Silt

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₈₅= 0.0275 D₆₀= 0.0015 D₅₀=
 D₃₀= D₁₅= D₁₀=
 C_u= C_c=

Classification
 USCS= ML AASHTO=

Remarks

Sample No.: 359
Location: GT-004

Source of Sample:

Date: 6-25-12
Elev./Depth: 9.5'-10.0'

**SJB
SERVICES, INC.**

Client: AMEC
Project: Oneida Remedial Design Site

Project No: CT-12-103

Plate 359