The Dow Chemical Company
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USA

December 19, 2012

Ms. Gail Dieter
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau E, Section B
625 Broadway, 12th Floor
Albany, NY 12233-7017

Re: Results of the July 2012 Gorham Street Soil Investigation, Former Hampshire Corp. Facility, Waterloo, New York

Dear Ms. Dieter:

Hamshire Chemical Corp. (HCC) is pleased to submit the attached technical memorandum titled *Results of the July 2012 Gorham Street Soil Investigation, Former Hampshire Corp. Facility, Waterloo, New York.* This document summarizes the additional delineation work performed in July 2012 to further delineate arsenic and cadmium impact in soil on the east side of Gorham Street that was previsouly investigated during the August 2007, May 2009, and December 2010 sampling events.

Resource Conservation and Recovery Act (RCRA) facility investigation (RFI) and remedial activities are being conducted pursuant to a Second Amended Order on Consent executed between Hampshire Chemical Corp. (HCC) and the New York State Department of Environmental Conservation (NYSDEC) under Index Number 8-20000218-3281, August 12, 2011. HCC is a wholly owned subsidiary of The Dow Chemical Company (Dow).

If you have any questions regarding this proposal or need additional information, please do not hesitate to call me at (304) 747-7788 or you can contact Dakon Brodmerkel at 610-280-0924.

Sincerely,

Jerome E. Cibrik, P.G.
Remediation Leader
Hampshire Chemical Corp.

Attachment

cc: Denise Radtke, NYSDEC
Scott Rodabaugh, NYSDEC Region 8
Pete Hoffmire, NYSDEC Region 8
Steve Brusso, Evans Chemetics
Dakon Brodmerkel/CH2M HILL
CH2M HILL Project File

Results of the July 2012 Gorham Street Soil Investigation, Former Hampshire Corp. Facility, Waterloo, New York

PREPARED FOR: New York Department of Environmental Conservation

PREPARED BY: CH2M HILL on the behalf of The Dow Chemical Company

DATE: December 20, 2012

Introduction

This technical memorandum presents the results of soil sampling activities performed in July 2012 in the Gorham Street area of the former Hampshire Chemical Corp. (HCC) facility in Waterloo, New York (site). The objective of this investigation was to further delineate arsenic and cadmium identified in soil on the east side of Gorham Street during the August 2007, May 2009, and December 2010 sampling events. All field activities were performed in general accordance with the *Supplemental Gorham Street Investigation Work Plan* (CH2M HILL 2011) and the site quality assurance project plan (CH2M HILL 2009a).

Background

The site is located at 228 East Main Street in the village of Waterloo, Seneca County, New York (Figure 1). The site is regulated under 6 New York Code Rules and Regulations (NYCRR) Part 373 and the Resource Conservation and Recovery Act (RCRA), with the New York State Department of Environmental Conservation (NYSDEC) as the lead agency. RCRA facility investigation (RFI) efforts have been performed at the facility since 1993 to evaluate the nature and extent of releases to the environment.

In August 2007, soil samples collected from two shallow soil sampling locations on the eastern side of Gorham Street contained arsenic and cadmium concentrations exceeding the NYSDEC (2006) Restricted Use Soil Cleanup Objectives (RUSCO): Protection of Public Health, Residential (6 NYCRR Part 375-6.8(b)) of 16 milligrams per kilogram (mg/kg) and 2.5 mg/kg, respectively (CH2M HILL 2008a). The sampling locations, designated as SS-19 and SS-20, were obtained from the grass area between Gorham Street and the adjacent employee parking lot. In a letter dated December 9, 2008, NYSDEC requested that the extent of arsenic at SS-19 and SS-20 be delineated (NYSDEC 2008). Delineation sampling was proposed as part of the April 2009 *Gorham Street Interim Remedial Measures Work Plan Addendum* (CH2M HILL 2009b), which was approved by NYSDEC in a letter dated May 5, 2009 (NYSDEC 2009a). In a follow-up email correspondence on May 6, 2009, NYSDEC requested that the cadmium concentrations detected at SS-20 also be delineated (NYSDEC 2009b).

Historically, 37 shallow soil borings (DE-01 through DE-37) were advanced to 5 feet below ground surface (bgs) to characterize the extent of arsenic and cadmium concentrations east of Gorham Street within the area near the Evans Chemetics LP (Evans) employee parking lot. Details and results pertaining to sampling activities associated with the Gorham Street delineation are summarized in the following reports

The *RFI Addendum report* (CH2M HILL 2008b) contains details pertaining to sampling activities associated with SS-19 and SS-20.

The *Gorham Street Investigation Report* (CH2M HILL 2010) contains details of sampling activities and results for DE-01 through DE-04.

The *Additional Investigations Results Report* (CH2M HILL 2012a) contains DE-05 through DE-12 sampling activities and results.

The *Results of the Gorham Street Supplemental Soil Investigation Report (*CH2M HILL 2012b) contains sampling activities and results from borings DE-13 through DE-37.

Scope of Work

The July 2012 phase of investigation was conducted to further delineate areas where arsenic and cadmium concentrations exceeded their RUSCO residential screening levels in the area surrounding the Evans employee parking lot. The investigation scope of work included:

A One-Call and third-party utility locate

Surveying the property boundaries and boring locations

Installing seven borings in the Evans parking lot area to a depth of 5 feet plus resampling DE-27 at the 6- to 12-inch bgs interval

Collecting a Shelby tube sample from select clayey intervals of boring (DE-46) for geotechnical analysis associated with Area of Concern A work (not discussed further herein)

Advancing 12 shallow soil borings to 2 feet bgs via hand auger in the area along the Seneca-Cayuga Canal (canal) edge and within the New York State Canal Corporation (NYSCC) property located east of the Evans parking lot

Twenty-two borings were advanced in the Gorham Street area in July 2012, which are identified as DE-38 through DE-58. DE-27 also was resampled during the event to confirm the concentration at this location where a difference between the native sample and a duplicate was observed. Borings DE-38 through DE-44 and DE-46 were advanced to 5 feet bgs using a GeoProbe. The soil cores were collected in dedicated 4-foot-long acetate liners. The remaining 14 borings were advanced to 2 feet bgs or refusal; seven locations were advanced the full 2 feet bgs, and the remaining five borings encountered refusal at depths ranging from 6 to 12 inches bgs. A CH2M HILL geologist logged the soil cores. The boring locations are presented on Figure 2, and boring logs are in Attachment 1.

Soil samples were collected from each boring that was advanced to 5 feet bgs at the following depth intervals using the following depth specific nomenclature:

0 to 2 inches bgs (A Interval)
2 to 6 inches bgs (B Interval)
6 to 12 inches bgs (C Interval)
12 to 24 inches bgs (D Interval)
24 to 36 inches bgs (E Interval)
36 to 48 inches bgs (F Interval)
48 to 60 inches bgs (G Interval)

Soil samples were collected from the A through D intervals in the borings that were advanced to the 2-foot bgs depth.

Soil samples were collected from the appropriate depth intervals, and each interval was homogenized using clean, dedicated disposable sampling materials (plastic trowels and aluminum pans). Quality assurance/quality control samples including duplicates, matrix spike and matrix spike duplicates, and rinsate blanks were collected in accordance with the supplemental investigation work plan (CH2M HILL 2011). Investigation-derived waste was stored in 55-gallon drums for subsequent characterization and offsite disposal.

Sampling Results

This section summarizes the analytical results for the July 2012 investigation. The NYSDEC electronic data deliverable is provided in Attachment 2, and the data quality evaluation is presented in Attachment 3.

Unconsolidated fill material, consisting of silt and some lenses of fine-grained sand and clay, were encountered to the final depths of the borings. The soil within the first several feet of grade within this area included debris (bricks and wood fragments) indicating the material was fill. Anthropogenic materials indicative of fill were observed in borings DE-40, DE-41, DE-42, DE-43, and DE-44, which were installed in the grass area east of the parking lot. Ash-like and/or slag-like material was observed in boring DE-44. Gravel and boulders were prevalent in shallow soil along the edge of the canal just south of the Evans parking lot area and within the portion of the

NYSCC property east of the parking lot that abuts the canal (borings DE-51 through DE-54). Large boulders also were observed on the surface within the NYSCC property located east of the Evans property.

During the investigation, the elevation of the Evans parking lot and adjacent canal right-of-way was observed to have been raised as the result of fill placement. A notable change in grade along the eastern edge of the Evans property was observed and has been interpreted to represent the limit of fill placement.

The following section provides observations based on the analytical results from borings installed during this investigation. Soil analytical results for all locations are provided in Table 1, and the boring locations are shown on Figure 2. The results were compared to the RUSCO residential screening levels (16 mg/kg for arsenic and 2.5 mg/kg for cadmium). Results exceeding the RUSCO screening levels are bolded and highlighted in Table 1.

Evans Parking Lot Area

The Evans parking lot area is defined as being the area between the parking lot and the canal to the south and the grassy area that extends to the property boundary east of the parking lot. Generally, concentrations of arsenic and cadmium were elevated above the RUSCO residential screening levels in surface soil with arsenic exceeding the RUSCO mainly in the first 12 to 24 inches bgs and cadmium exceeding the RUSCO in the first 6 to 12 inches bgs. The arsenic RUSCO standard was only exceeded at a depth greater than 2 feet bgs in three of the eight borings that were advanced to the 5-foot bgs depth. The cadmium RUSCO standard was only exceeded at 2 of the 22 sample locations collected from a depth greater than 2 feet bgs.

The highest arsenic concentrations observed in this investigation were at DE-44 (134 mg/kg) from 6 to 12 inches bgs and DE-39 (116 mg/kg) from 2 to 6 inches bgs. Lower arsenic concentrations, but still elevated relative to the RUSCO, also extend along the edge of the canal to a depth of 2 feet bgs. The arsenic isoconcentration map for the 0- to 1-foot bgs intervals and the 1- to 2-foot bgs intervals are including as Figures 3 and 4, respectively. Figure 3 shows that shallow arsenic exceeds the RUSCO within the area between the Evans parking lot and the canal, and this impact continues to the grassy area between the Evans parking lot and the property line. The majority of the area discussed above ranges in concentration from approximately 16 mg/kg to more than 50 mg/kg. The area of arsenic exceeding the RUSCO appears to be within the extent of fill placement.

Figure 4 shows that in the 1- to 2-foot bgs depth, the area of the arsenic RUSCO exceedances is significantly reduced with exceedances of the RUSCO being limited to the area between the Evans parking lot and the canal, with the higher concentrations being present near the Gorham Street bridge. The above analysis indicates the majority of arsenic exceeding the RUSCO standard in shallow soil within this area is present in the 0- to 2-foot bgs interval. Nearer to the Gorham Street bridge, arsenic impact extends to approximately 4 feet bgs.

The highest cadmium concentrations were present at DE-45 (53.5 mg/kg) within the 2- to 6-inch bgs interval. The 0- to 1-foot bgs depth isoconcentration map for cadmium is included as Figure 5, and the 1- to 2-foot bgs interval is presented as Figure 6. Similar to the shallow arsenic distribution, cadmium is present above the RUSCO standard in the area between the Evans parking lot and canal. The extent of cadmium above the RUSCO is smaller in the area east of the Evans parking lot (Figure 5) when compared to arsenic within the same area and depth interval, and generally appears to be within the extent of fill placement. The concentrations of cadmium exceeding the RUSCO in this area typically range from 2.5 mg/kg to more than 25 mg/kg, with the higher concentrations being present near the Gorham Street bridge.

Cadmium exceedances are less prevalent in the 1- to 2-foot bgs interval and are located within the area between the Evans parking lot and canal. Only two cadmium RUSCO exceedances were observed in the deeper soil column (greater than 2-foot bgs depth), suggesting the impacts are largely surficial with the exception of the area near the Gorham Street bridge where the impact is centered at the 2-foot bgs depth.

Eastern NYSCC Property

This sampling area consists of borings DE-52, DE-53, DE-54, DE-55, and DE-56, which are within the NYSCC property located east of the Evans property; this area is highlighted by a red outline on the figures. Within the NYSCC property, arsenic above the RUSCO residential screening level was most commonly present in the first 6

inches bgs; the only sample that exceeded the arsenic RUSCO at a depth greater than 6 inches bgs was DE-53 where arsenic was reported at 24.6 mg/kg within the 6- to 12-inch bgs interval.

The highest concentration of arsenic was detected at DE-55 from 2 to 6 inches bgs (37.1 mg/kg), and the arsenic RUSCO exceedances within the NYSCC property ranged from 18.5 to 37.1 mg/kg. Cadmium was not analyzed on the NYSCC property. Refusal was encountered at several of the NYSCC property locations where gravel and small boulders were located in the subsurface. The two borings furthest from the canal (DE-55 and DE-56) achieved the full 2-foot bgs depth.

Conclusions

Based on the results of the soil investigation activities performed to date in the Gorham Street area, the conclusions are:

Fill has been placed in the Gorham Street area. A notable change in grade exists along the eastern edge of the Evans property, which generally coincides with where arsenic and cadmium exceeds the RUSCO standards in the area.

Arsenic and cadmium are present in shallow soil at concentrations that exceed the RUSCO residential screening levels of 16 mg/kg and 2.5 mg/kg, respectively. Arsenic exceeded the RUSCO most frequently in the 0- to 24-inch bgs depth interval, whereas cadmium most frequently exceeded the RUSCO in the 0- to 12-inch bgs depth interval.

The highest concentrations of arsenic observed during this investigation were found east of the parking lot at DE-44 (134 mg/kg) from 6 to 12 inches bgs and DE-39 (116mg/kg) from 2 to 6 inches bgs. Based on the soil samples collected to date in this area, the highest arsenic concentrations appears to be located near the Gorham Street bridge.

The highest cadmium concentration observed during this investigation was at DE-45 where a concentration of 53.5 mg/kg was present at the 2- to 6-inch bgs interval. As was the case for the highest arsenic concentration, based on data from samples collected to date, cadmium also was highest near the Gorham Street bridge.

Path Forward

The information gathered in this investigation will be used to develop an interim corrective measures work plan, which will evaluate proposed corrective measures for the Gorham Street Area, defined as the area between the Evans parking lot and the NYSCC right-of-way immediately south of the Evans property. Additionally, HCC has worked with NYSDEC and the New York State Department of Health to proactively develop a sampling plan for the three adjacent properties, and sampling was performed in late-October 2012. The results of that effort will be reported in a separate submission.

References

CH2M HILL. 2008a. *Gorham Street Interim Remedial Measures Work Plan, Former Hampshire Chemical Corp. Facility, Waterloo, New York*. September.

CH2M HILL. 2008b. *RCRA Facility Investigation Addendum Report, Former Hampshire Chemical Corp., Waterloo, New York.* November.

CH2M HILL. 2009a. *Quality Assurance Project Plan, RCRA Facility Investigation, Former Hampshire Chemical Corp., Waterloo, New York.* September.

CH2M HILL. 2009b. *Gorham Street IRM Work Plan Addendum, Former Hampshire Chemical Corp. Facility, Waterloo, New York*. April.

CH2M HILL. 2010. *Gorham Street Investigation Report, Former Hampshire Chemical Corp. Facility, Waterloo, New York*. February.

CH2M HILL. 2011. *Supplemental Gorham Street Investigation Work Plan.*

CH2M HILL. 2012a. *Additional Investigations Results Report.*

CH2M HILL. 2012b. *Results of the Gorham Street Supplemental Soil Investigation Report, Former Hampshire Chemical Corp. Facility, Waterloo, New York*. April 20.

New York State Department of Environmental Conservation (NYSDEC). 2006. *Environmental Remediation Programs. NYSDEC Restricted Use Soil Cleanup Objectives (RUSCO): Protection of Public Health, Residential and Industrial (6 NYCRR Part 375-6.8(b)).* December.

New York State Department of Environmental Conservation (NYSDEC). 2008 Letter *RE: Gorham Street Interim Remedial Measures Work Plan, Hampshire Chemical Corp. Facility, Seneca County, Town of Waterloo, New York.* December 9.

New York State Department of Environmental Conservation (NYSDEC). 2009a. Letter *RE: Gorham Street Interim Remedial Measures Work Plan Addendum, Hampshire Chemical Corp Facility, Waterloo, New York.* May 5.

New York State Department of Environmental Conservation (NYSDEC). 2009b. Email requesting that samples be collected for both cadmium and arsenic analyses. May 6.

Tables

Table 1
Summary of Arsenic and Cadmium Results
Gorham Street Investigation - July 2012
Former Hampshire Chemical Corp. Facility, Waterloo, New York

Location			DE-27R
Sample ID			DE-27R-01C-08022012
Sample Depth (inches)		RUSCO	6 - 12
Sample Date	CAS#	Residential	8/2/2012
Analyte			
Metals (mg/Kg)			
Arsenic	7440-38-2	16	**29.2**
Cadmium	7440-43-9	2.5	**0.422**

Location			DE-38						
Sample ID			DE-38-01A-08022012	DE-38-01B-08022012	DE-38-01C-08022012	DE-38-01D-08022012	DE-38-01E-08022012	DE-38-01F-08022012	DE-38-01G-08022012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	36 - 48	48 - 60
Sample Date	CAS#	Residential	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
Analyte									
Metals (mg/Kg)									
Arsenic	7440-38-2	16	**27.6**	**47.2**	**8.28**	**5.75**	**4.55 J**	**4.33**	**5.04**
Cadmium	7440-43-9	2.5	**0.61**	**0.498**	0.196 U	**0.211 J**	**0.765 J**	0.18 U	0.188 U

Location			DE-39						
Sample ID			DE-39-01A-08022012	DE-39-01B-08022012	DE-39-01C-08022012	DE-39-01D-08022012	DE-39-01E-08022012	DE-39-01F-08022012	DE-39-01G-08022012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	36 - 48	48 - 60
Sample Date	CAS#	Residential	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
Analyte									
Metals (mg/Kg)									
Arsenic	7440-38-2	16	**40.1**	**116**	**99.6**	**10**	**9.68**	**6.93**	**2.97 J**
Cadmium	7440-43-9	2.5	**2.27**	**2.17**	**1.09**	0.19 U	**0.324 J**	0.189 U	0.202 U

Location			DE-40							
Sample ID			DE-40-01A-08022012	DE-40-01B-08022012	DE-40-01C-08022012	DE-40-01D-08022012	DE-40-01E-08022012	DUP-SOIL-08022012-08	DE-40-01F-08022012	DE-40-01G-08022012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	24 - 36	36 - 48	48 - 60
Sample Date	CAS#	Residential	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
Analyte										
Metals (mg/Kg)										
Arsenic	7440-38-2	16	**32.1**	**39.9**	**28**	**60.9**	**5.65**	**7.68**	**6.03**	**5.23**
Cadmium	7440-43-9	2.5	**2.27**	**1.06**	**1.84**	**1.03**	0.202 U	0.199 U	**5.14**	0.192 U

Location			DE-41							
Sample ID			DE-41-01A-08022012	DE-41-01B-08022012	DE-41-01C-08022012	DE-41-01D-08022012	DE-41-01E-08022012	DE-41-01F-08022012	DUP-SOIL-08022012-09	DE-41-01G-08022012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	36 - 48	36 - 48	48 - 60
Sample Date	CAS#	Residential	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
Analyte										
Metals (mg/Kg)										
Arsenic	7440-38-2	16	**167**	**161**	**51.6**	**3.02 J**	**4.14**	**3.42 J**	**3.1 J**	**4.16**
Cadmium	7440-43-9	2.5	**2.63**	**1.98**	**0.759**	0.197 U	0.197 U	**0.277 J**	0.182 U	0.194 U

Location			DE-42								
Sample ID			DE-42-01A-08022012	DE-42-01B-08022012	DE-42-01C-08022012	DE-42-01D-08022012	DE-42-01E-08022012	DE-42-01F-08022012	DUP-SOIL-08022012-06	DE-42-01G-08022012	DUP-SOIL-08022012-07
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	36 - 48	36 - 48	48 - 60	48 - 60
Sample Date	CAS#	Residential	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
Analyte											
Metals (mg/Kg)											
Arsenic	7440-38-2	16	**85.8**	**78.6**	**24**	**10.4**	**10.1**	**11.1**	**11.4**	**4.78**	**3.73 J**
Cadmium	7440-43-9	2.5	**2.21**	**1**	**0.373 J**	**1.33**	**0.415**	0.197 U	0.185 U	**0.401**	**0.601**

Location			DE-43						
Sample ID			DE-43-01A-08022012	DE-43-01B-08022012	DE-43-01C-08022012	DE-43-01D-08022012	DE-43-01E-08022012	DE-43-01F-08022012	DE-43-01G-08022012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	36 - 48	48 - 60
Sample Date	CAS#	Residential	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
Analyte									
Metals (mg/Kg)									
Arsenic	7440-38-2	16	**60.1**	**82.6**	**53.6**	**3.45 J**	**21.6**	**10.2**	**4.81**
Cadmium	7440-43-9	2.5	**5.09**	**1.08**	**0.731**	**0.376 J**	**0.88**	**1.35**	0.191 U

Location			DE-44							
Sample ID			DE-44-01A-08022012	DE-44-01B-08022012	DE-44-01C-08022012	DE-44-01D-08022012	DE-44-01E-08022012	DUP-SOIL-08022012-10	DE-44-01F-08022012	DE-44-01G-08022012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	24 - 36	36 - 48	48 - 60
Sample Date	CAS#	Residential	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
Analyte										
Metals (mg/Kg)										
Arsenic	7440-38-2	16	**46**	**66.1**	**134**	**22.1**	**15.8**	**23.7**	**19**	**5.27**
Cadmium	7440-43-9	2.5	**3.72**	**2.79**	**3.99**	**0.421 J**	**0.322 J**	0.212 U	**6.43**	0.182 U

Table 1
Summary of Arsenic and Cadmium Results
Gorham Street Investigation - July 2012
Former Hampshire Chemical Corp. Facility, Waterloo, New York

Location			DE-45					
Sample ID			DE-45-01A-07312012	DUP-SOIL-07312012-01	DE-45-01B-07312012	DUP-SOIL-07312012-02	DE-45-02C-07312012	DUP-SOIL-07312012-03
Sample Depth (inches)		RUSCO	0 - 2	0 - 2	2 - 6	2 - 6	6 - 12	6 - 12
Sample Date	CAS#	Residential	7/31/2012	7/31/2012	7/31/2012	7/31/2012	7/31/2012	7/31/2012
Analyte								
Metals (mg/Kg)								
Arsenic	7440-38-2	16	**27.4**	**16.7**	**42.7**	**36.4**	**16.9 J**	**17.7**
Cadmium	7440-43-9	2.5	**26.7 J**	**15.2 J**	**53.5**	**42.7**	**24.2**	**28.6**

Location			DE-46						
Sample ID			DE-46-01A-08012012	DE-46-01B-08012012	DE-46-01C-08012012	DE-46-01D-08012012	DE-46-01E-08012012	DE-46-01F-08012012	DE-46-01G-08012012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	36 - 48	48 - 60
Sample Date	CAS#	Residential	8/1/2012	8/1/2012	8/1/2012	8/1/2012	8/1/2012	8/1/2012	8/1/2012
Analyte									
Metals (mg/Kg)									
Arsenic	7440-38-2	16	**23.8 J**	**23.7**	**27.1**	**56.4**	**3.37 J**	**5.07**	**10.8**
Cadmium	7440-43-9	2.5	**3.1**	**2.2 J**	**1.49**	**1**	**0.434**	**0.296 J**	**1.27**

Location			DE-47			
Sample ID			DE-47-01A-07312012	DE-47-01B-07312012	DE-47-01C-07312012	DE-47-01D-07312012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12	12 - 24
Sample Date	CAS#	Residential	7/31/2012	7/31/2012	7/31/2012	7/31/2012
Analyte						
Metals (mg/Kg)						
Arsenic	7440-38-2	16	**115**	**103**	**49.4**	**33.1**
Cadmium	7440-43-9	2.5	**2.87**	**1.31**	**0.659**	**0.912**

Location			DE-48			
Sample ID			DE-48-01A-07312012	DE-48-01B-07312012	DE-48-01C-07312012	DE-48-01D-07312012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12	12 - 24
Sample Date	CAS#	Residential	7/31/2012	7/31/2012	7/31/2012	7/31/2012
Analyte						
Metals (mg/Kg)						
Arsenic	7440-38-2	16	**77.4**	**60.1**	**29.9**	**38.4**
Cadmium	7440-43-9	2.5	**4.03**	**2.73**	**1.73**	**1.28**

Location			DE-49			
Sample ID			DE-49-01A-07302012	DE-49-01B-07302012	DE-49-01C-07302012	DE-49-01D-07302012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12	12 - 24
Sample Date	CAS#	Residential	7/30/2012	7/30/2012	7/30/2012	7/30/2012
Analyte						
Metals (mg/Kg)						
Arsenic	7440-38-2	16	**73.9**	**25.1**	**30.6**	**16.8**
Cadmium	7440-43-9	2.5	**2.62**	**0.462**	**0.532**	**0.294 J**

Location			DE-50			
Sample ID			DE-50-01A-07302012	DE-50-01B-07302012	DE-50-01C-07302012	DE-50-01D-07302012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12	12 - 24
Sample Date	CAS#	Residential	7/30/2012	7/30/2012	7/30/2012	7/30/2012
Analyte						
Metals (mg/Kg)						
Arsenic	7440-38-2	16	**49.1**	**89.7**	**90**	**78.3**
Cadmium	7440-43-9	2.5	**4.68**	**2.47**	**2.02**	**1.16**

Location			DE-51	
Sample ID			DE-51-01A-07302012	DE-51-01B-07302012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6
Sample Date	CAS#	Residential	7/30/2012	7/30/2012
Analyte				
Metals (mg/Kg)				
Arsenic	7440-38-2	16	**50.1**	**58.1**
Cadmium	7440-43-9	2.5	**4.17**	**1.5**

Location			DE-52	
Sample ID			DE-52-01A-07302012	DE-52-01B-07302012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6
Sample Date	CAS#	Residential	7/30/2012	7/30/2012
Analyte				
Metals (mg/Kg)				
Arsenic	7440-38-2	16	**6.71**	**35.8**
Cadmium	7440-43-9	2.5	- -	- -

Table 1
Summary of Arsenic and Cadmium Results
Gorham Street Investigation - July 2012
Former Hampshire Chemical Corp. Facility, Waterloo, New York

Location			DE-53		
Sample ID			DE-53-01A-07302012	DE-53-01B-07302012	DE-53-01C-07302012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12
Sample Date	CAS#	Residential	7/30/2012	7/30/2012	7/30/2012
Analyte					
Metals (mg/Kg)					
Arsenic	7440-38-2	16	**26.9**	**28.5**	**24.6**
Cadmium	7440-43-9	2.5	- -	- -	- -

Location			DE-54		
Sample ID			DE-54-01A-07302012	DE-54-01B-07302012	DE-54-01C-07302012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12
Sample Date	CAS#	Residential	7/30/2012	7/30/2012	7/30/2012
Analyte					
Metals (mg/Kg)					
Arsenic	7440-38-2	16	**15**	**8.45**	**9.89**
Cadmium	7440-43-9	2.5	- -	- -	- -

Location			DE-55			
Sample ID			DE-55-01A-07302012	DE-55-01B-07302012	DE-55-01C-07302012	DE-55-01D-07302012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12	12 - 24
Sample Date	CAS#	Residential	7/30/2012	7/30/2012	7/30/2012	7/30/2012
Analyte						
Metals (mg/Kg)						
Arsenic	7440-38-2	16	**20**	**37.1**	**7.13**	**2.52 J**
Cadmium	7440-43-9	2.5	- -	- -	- -	- -

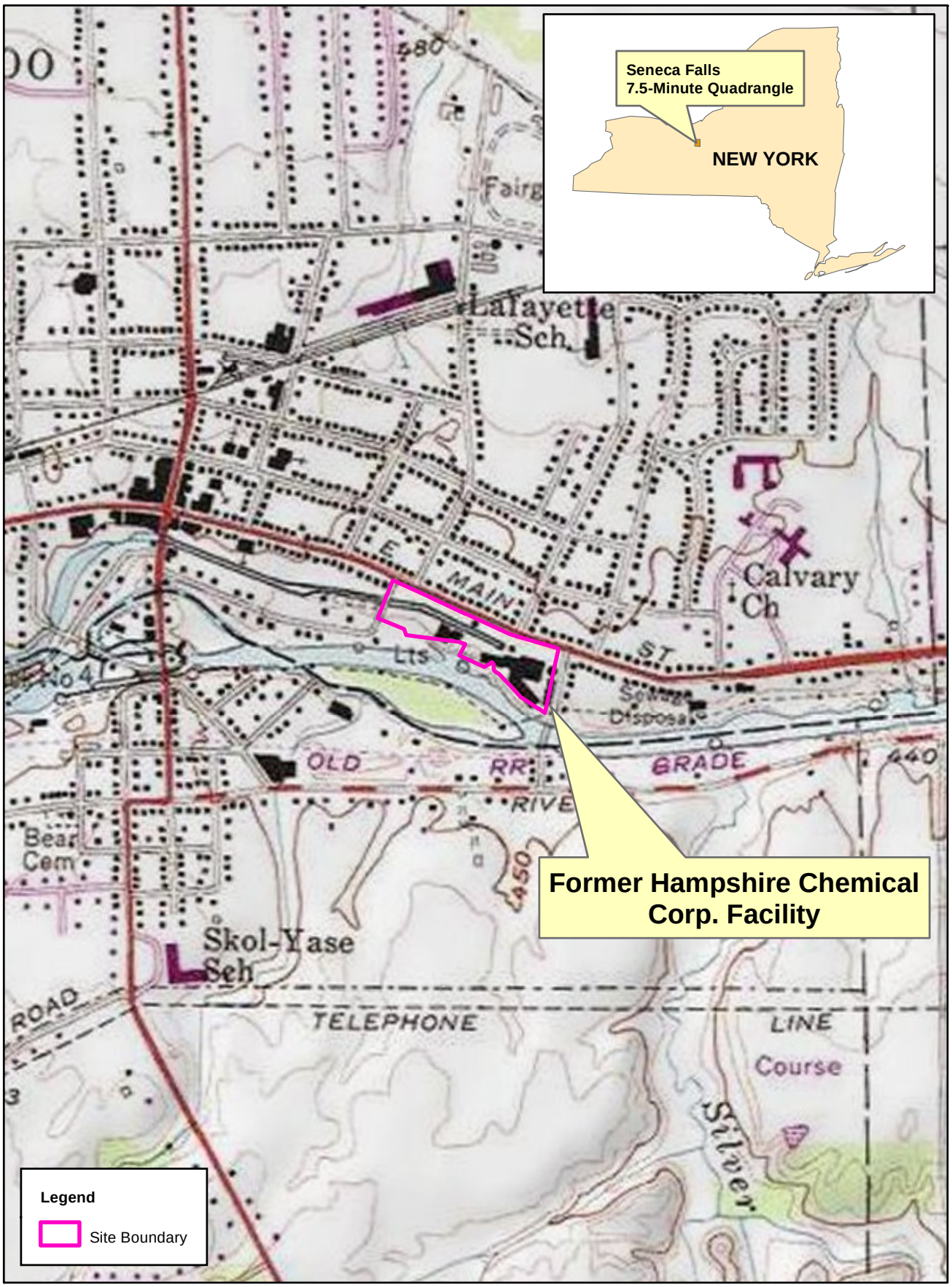
Location			DE-56			
Sample ID			DE-56-01A-07302012	DE-56-01B-07302012	DE56-01C-07302012	DE-56-01D-07302012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12	12 - 24
Sample Date	CAS#	Residential	7/30/2012	7/30/2012	7/30/2012	7/30/2012
Analyte						
Metals (mg/Kg)						
Arsenic	7440-38-2	16	**18.5**	**19.2**	**4.62**	**4.18**
Cadmium	7440-43-9	2.5	- -	- -	- -	- -

Location			DE-57					
Sample ID			DE-57-01A-07312012	DUP-SOIL-07312012-04	DE-57-01B-07312012	DUP-SOIL-07312012-05	DE-57-01C-07312012	DE-57-03D-07312012
Sample Depth (inches)		RUSCO	0 - 2	0 - 2	2 - 6	2 - 6	6 - 12	12 - 24
Sample Date	CAS#	Residential	7/31/2012	7/31/2012	7/31/2012	7/31/2012	7/31/2012	7/31/2012
Analyte								
Metals (mg/Kg)								
Arsenic	7440-38-2	16	**12.7**	**10.1**	**16.9**	**18.4**	**5.33**	**4.24**
Cadmium	7440-43-9	2.5	**1.53**	**1.34**	**1.39**	**1.46**	**0.295 J**	**0.201 J**

Location			DE-58		
Sample ID			DE-58-01A-07312012	DE-58-01B-07312012	DE-58-01C-07312012
Sample Depth (inches)		RUSCO	0 - 2	2 - 6	6 - 12
Sample Date	CAS#	Residential	7/31/2012	7/31/2012	7/31/2012
Analyte					
Metals (mg/Kg)					
Arsenic	7440-38-2	16	**43.8**	**42.5**	**53.5**
Cadmium	7440-43-9	2.5	**1.28**	**1.21**	**1.1**

Notes:
Bold indicates the analyte was detected
Shading indicates the result exceeded screening criteria
- - = Not analyzed
mg/kg = milligrams per kilogram
J = The analyte was positively identified; the associated numerical value is the approximate concentration.
U = The analyte was not detected.

Figures



0 500 1,000
Feet

N

Seneca Falls, NY 1953 Photo Revised 1978

Figure 1
Site Location Map
Gorham Street Investigation
Former Hampshire Chemical Corp. Facility
Waterloo, NY

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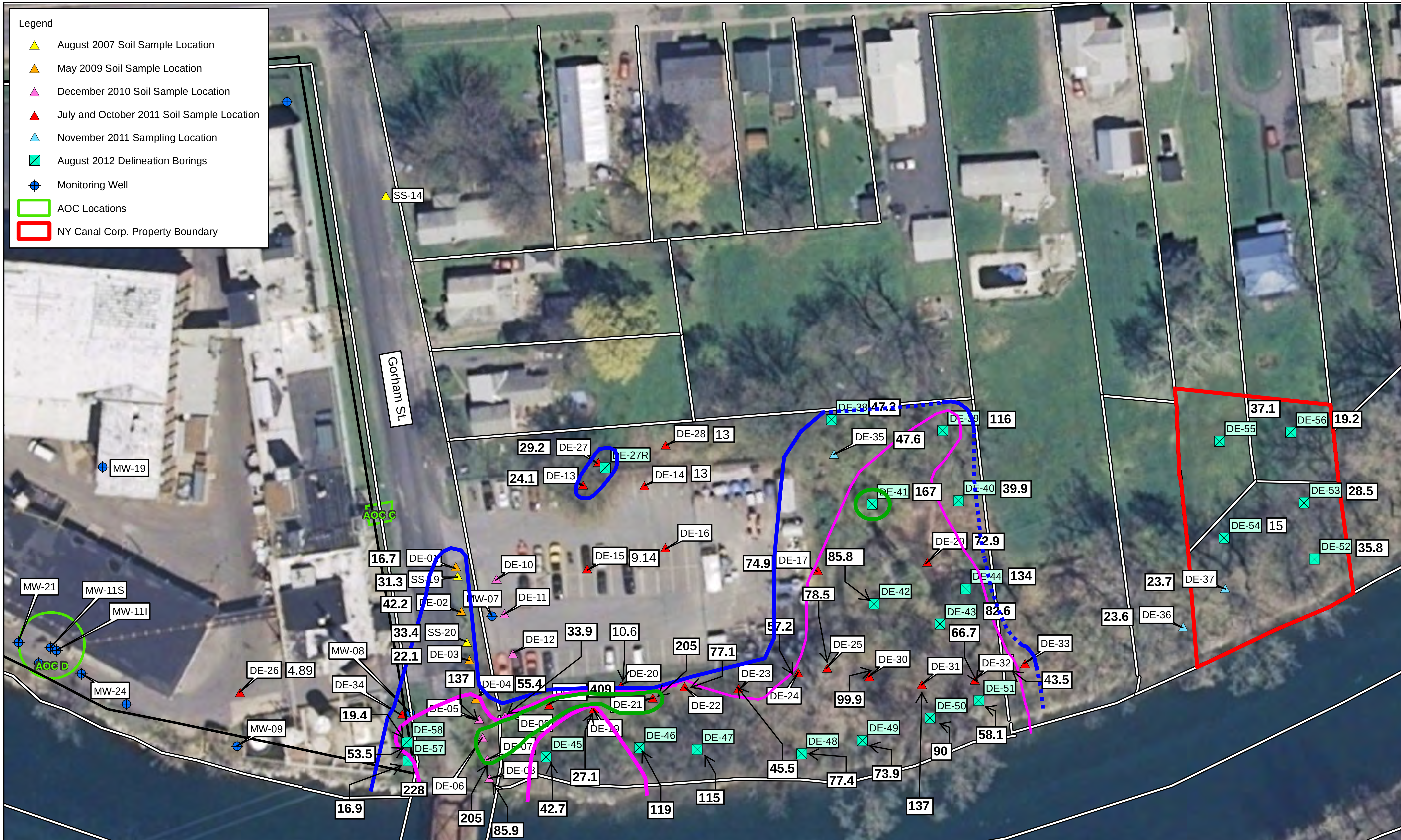
E:\GIS\DOW\WATERLOO\REPORTS\2012\GORHAMSTREETINVESTIGATION_DEC2012\MAPFILES\FIGURE 01 - SITE LOCATION MAP.MXD JHANSEN1 12/17/2012 1:54:56 PM

Figure 2
Soil Sampling Locations, Gorham Street Investigation,
Former Hampshire Chemical Corp. Facility, Waterloo NY

CH2MHILL

E:\GIS\DOW\WATERLOO\REPORTS\2011\MISC\MAPFILES\AOCD_GORHANMST_BALAS_011012\GORHAMSTREET\FIGURE 01 - GORHAM STREET INVESTIGATION - SOIL SAMPLING LOCATIONS.MXD MPETERSH 8/21/2012 9:20:59 AM



Legend
August 2007 Soil Sample Location
May 2009 Soil Sample Location
December 2010 Soil Sample Location
July and October 2011 Soil Sample Location
November 2011 Sampling Location
August 2012 Delineation Borings
Monitoring Well
AOC Locations
NY Canal Corp. Property Boundary
Gorham St.
SS-14
MW-19
AOC C
AOC D
MW-21
MW-11S
MW-11I
MW-24
MW-09
MW-08
MW-07
DE-26 4.89
DE-34 19.4
DE-01 16.7
SS-19 31.3
DE-02 42.2
SS-20 33.4
DE-03 22.1
137
DE-04 55.4
DE-05
DE-58
DE-57
53.5
16.9
228
DE-06
205
85.9
DE-07
DE-08
DE-09
DE-10
DE-11
DE-12 33.9
DE-13 24.1
DE-27 29.2
DE-27R
DE-28 13
DE-14 13
DE-15 9.14
DE-16
DE-17 74.9
85.8
78.5
DE-18 409
DE-19
DE-20 10.6
DE-21
DE-22 205
DE-23 77.1
DE-24 57.2
DE-25
DE-45 27.1
42.7
DE-46 119
DE-47 115
DE-48 45.5
77.4
DE-49 73.9
DE-30 99.9
DE-31 137
DE-50 90
DE-51 58.1
DE-32
DE-33 43.5
DE-43 66.7
DE-44 134
82.6
DE-42
DE-29 72.9
DE-40 39.9
DE-41 167
DE-35 47.6
DE-38 47.2
DE-39 116
DE-36 23.6
DE-37 23.7
DE-55 37.1
DE-56 19.2
DE-53 28.5
DE-54 15
DE-52 35.8
0 60 120
Feet

Note: Bold text indicates arsenic concentration (mg/kg) exceeds the NYSDEC RUSCO of 16 mg/kg.

Arsenic Concentration > 16 mg/kg
Arsenic Concentration > 50 mg/kg
Arsenic Concentration > 160 mg/kg

Figure 3
Arsenic 0-1', Gorham Street Investigation, Former Hampshire Chemical Corp. Facility, Waterloo NY

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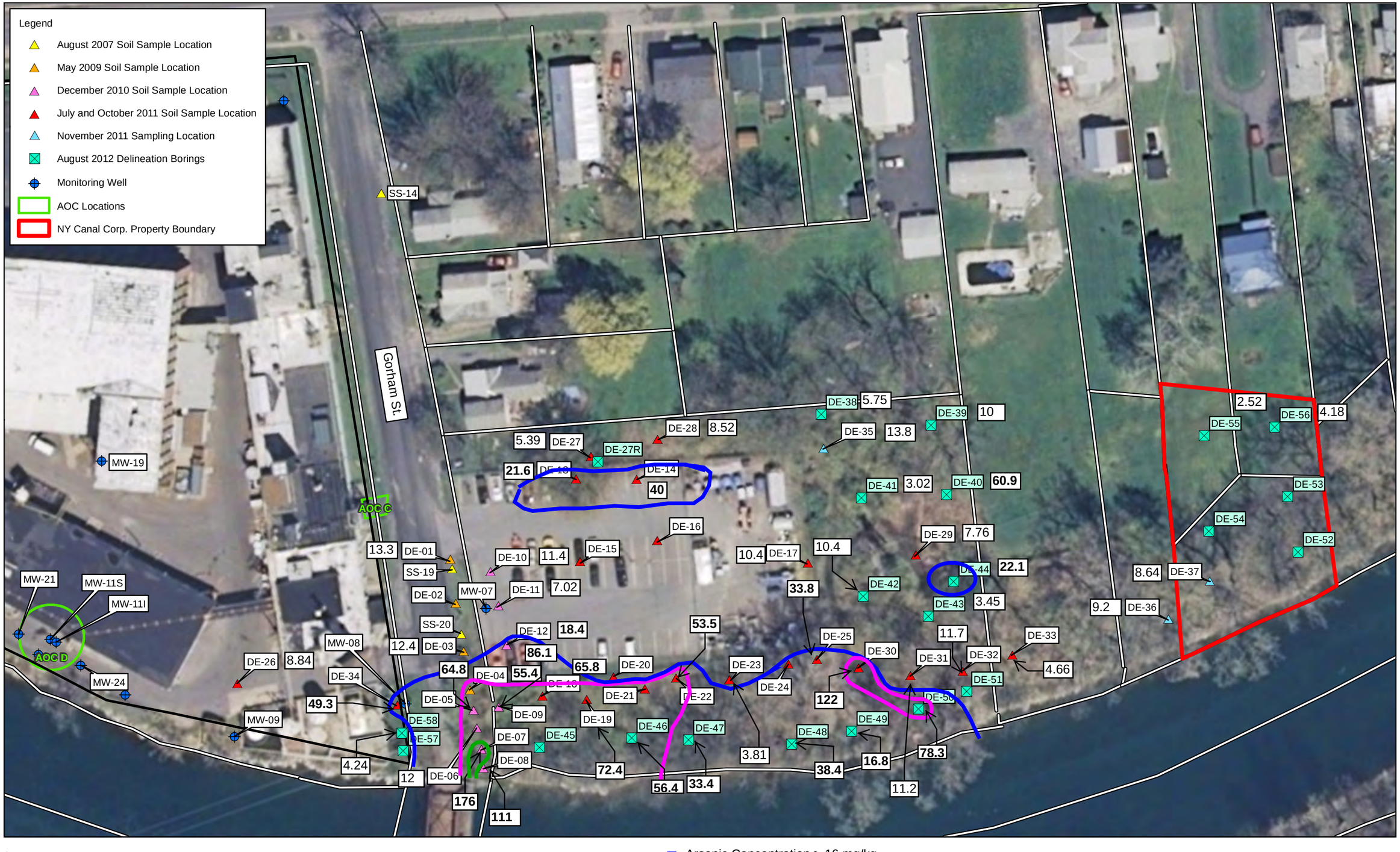

0 60 120
Feet

Note: Bold text indicates arsenic concentration (mg/kg) exceeds the NYSDEC RUSCO of 16 mg/kg.

- Arsenic Concentration > 16 mg/kg
- Arsenic Concentration > 50 mg/kg
- Arsenic Concentration > 160 mg/kg

Figure 4
Arsenic 1-2', Gorham Street Investigation, Former Hampshire Chemical Corp. Facility, Waterloo NY

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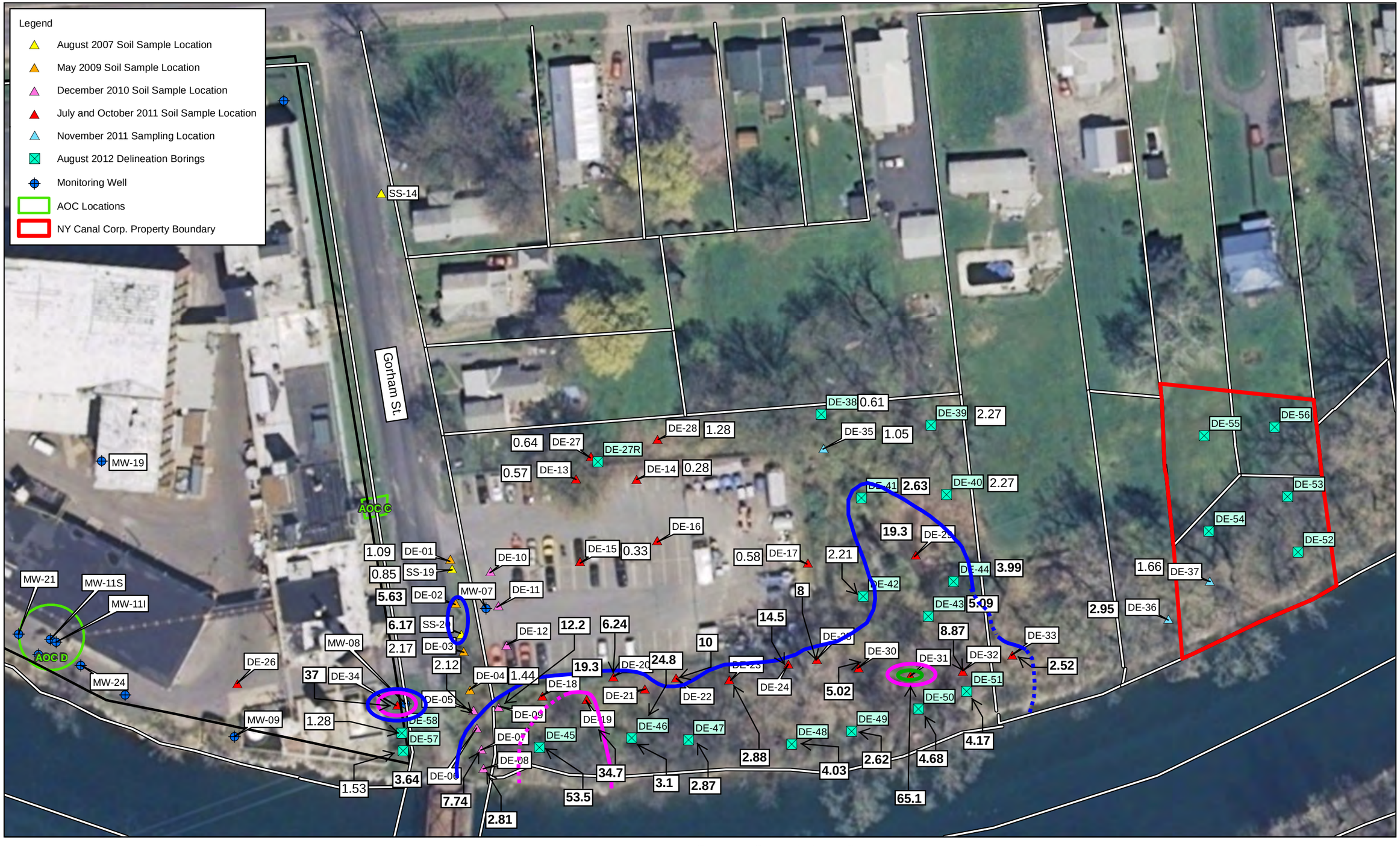

Note: Bold text indicates cadmium concentration (mg/kg) exceeds the NYSDEC RUSCO of 2.5 mg/kg.

- Cadmium Concentration > 2.5 mg/kg
- Cadmium Concentration > 25 mg/kg
- Cadmium Concentration > 60 mg/kg

Figure 5
Cadmium 0-1', Gorham Street Investigation, Former Hampshire Chemical Corp. Facility, Waterloo NY

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Legend

- August 2007 Soil Sample Location
- May 2009 Soil Sample Location
- December 2010 Soil Sample Location
- July and October 2011 Soil Sample Location
- November 2011 Sampling Location
- August 2012 Delineation Borings
- Monitoring Well
- AOC Locations
- NY Canal Corp. Property Boundary

Cadmium Concentration > 50 mg/kg

Cadmium Concentration > 2.5 mg/kg

Cadmium Concentration > 25 mg/kg

Cadmium Concentration > 60 mg/kg

N

0 60 120

Feet

Note: Bold text indicates Cadmium concentration (mg/kg) exceeds the NYSDEC RUSCO of 2.5 mg/kg.

Figure 6

Cadmium 1-2', Gorham Street Investigation, Former Hampshire Chemical Corp. Facility, Waterloo NY

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Attachment 1
Boring Logs

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-27R SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : Parratt-Wolff, Inc.

DRILLING METHOD AND EQUIPMENT : 6620 DT Geoprobe, with 4 ft acetate liners

WATER LEVELS : --- START : 8/2/12 10:40 END : 8/2/12 10:45 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	PP (TSF)	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Silt with Organics (OH/OL)**			
	1.5	1.5	DPT-1		0.0-0.7' - Dark brown, dry, very soft, silt with sand (fine) and grass/roots, trace angular gravel		3.5	BZ = 0.2, AH = 0.2
1.5					**Silt (ML)** 0.7-1.5' - Orangish brown, dry, noncohesive, very stiff			BZ = 0.2, AH = 0.2
					Bottom of Core at 1.5 ft below ground surface on			
5								
10								
15								
20								

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-38 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : Parratt-Wolff, Inc.

DRILLING METHOD AND EQUIPMENT : 6620 DT Geoprobe, with 4 ft acetate liners

WATER LEVELS : --- START : 8/2/12 10:20 END : 8/2/12 10:34 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	PP (TSF)	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Organic Soil (OH/OL)** 0.0-0.25' - Dark brown, dry, very soft, silt, trace very fine-fine sand, organics- grass, roots			
	2.0	2.0	DPT-1		**Lean Clay (CL)** 0.25-0.65' - Brown, dry, cohesive, stiff, medium plasticity, lean clay with silt- 40%, trace wood		15	
2.0					**Poorly Graded Sand (SP)** 0.65-2.0' - Light brown, dry, medium, Poorly graded, very fine to fine sand, some has cemented into siltstone, trace fine gray gravel			
	2.4	2.4	DPT-2		**Poorly Graded Sand (SP)** 2.0-3.2' - Same as Above' except Light brown, dry, medium, Same as above, except with trace brick at 2.9-3.2 ft		75	
5 5.0					**Silt (ML)** 3.2-4.4' - Orangish brown, dry, hard, Trace clay			
					4.4-5.0' - No recovery			
					Bottom of Core at 5.0 ft below ground surface on			
10								
15								
20								

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-39 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : Parratt-Wolff, Inc.

DRILLING METHOD AND EQUIPMENT : 6620 DT Geoprobe, with 4 ft acetate liners

WATER LEVELS : --- START : 8/2/12 10:50 END : 8/2/12 11:10 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Organic Silt with Sand (OH/OL)**		
	1.4	1.4	DPT-1		0.0-0.4' - Dark brown, dry, very soft, silt with sand, root matter		OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
							OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
					Well Graded Sand (SW)		
2.0					0.4-1.4' - Black and tan, dry, very loose, Fine to coarse sand with shell material and trace black ash-like material and trace root/organic material		OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
					1.4-2.0' - No recovery		
					Well Graded Sand (SW)		
	2.4	2.4	DPT-2		2.0-2.7' - Tan, dry, loose, Fine to coarse sand with fine subangular gravel, trace shell material and plant roots and black fine grained size ash/slag-like material		OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
							OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
5 5.0					**Silt (ML)**		OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
					2.7-3.8' - Orangish brown, dry, cohesive, stiff		
					Well Graded Sand (SW)		
					3.8-4.4' - Brown, dry, medium, Fine to coarse sand with ~45% fine subangular gravel		
					4.4-5.0' - No recovery		
					Bottom of Core at 5.0 ft below ground surface on		
10							
15							
20							

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:	
439926.01.FS	DE-40	SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation — LOCATION : Waterloo, NY

ELEVATION : — DRILLING CONTRACTOR : Parratt-Wolff, Inc.

DRILLING METHOD AND EQUIPMENT : 6620 DT Geoprobe, with 4 ft acetate liners

WATER LEVELS : --- — START : 8/2/12 11:30 — END : 8/2/12 11:45 — LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	PP (TSF)	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Silt with Sand (OH/OL)**			
	1.0	1.0	DPT-1		0.0-0.3' - Dark brown, moist, noncohesive, very loose, Organics, silt with very fine sand			OVM = 0.3 ppm, BZ = 0.3, AH = 0.3
					Well Graded Sand (SW)			OVM = 0.3 ppm, BZ = 0.3, AH = 0.3
2.0					0.3-1.0' - Black to brown, moist, loose, fine to coarse sand with gravel (~30% fine subangular) with shell material and black slag-like material			OVM = 0.3 ppm, BZ = 0.3, AH = 0.3
	1.8	1.8	DPT-2		1.0-2.0' - No recovery. Looseness of interval may have created compaction of material			OVM = 0.3 ppm, BZ = 0.3, AH = 0.3
					Sand (SW)			OVM = 0.3 ppm, BZ = 0.3, AH = 0.3
					2.0-3.3' - gray, dry, loose, fine to coarse sand with ~25% fine subangular gravel, shell fragments, trace brick 2.7-3.1 ft BGS		3.5	OVM = 0.3 ppm, BZ = 0.3, AH = 0.3
5 5.0					**Silt (ML)** 3.3-3.8' - brown, dry, noncohesive, very stiff			
					3.8-5.0' - No recovery (believe looseness of sand led to compaction of interval)			
					Bottom of Core at 5.0 ft below ground surface on			
10								
15								
20								

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-41 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : Parratt-Wolff, Inc.

DRILLING METHOD AND EQUIPMENT : 6620 DT Geoprobe, with 4 ft acetate liners

WATER LEVELS : --- START : 8/2/12 11:50 END : 8/2/12 12:00 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	PP (TSF)	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Silt with sand (OL/OH)** 0.0-0.05' - Dark brown, dry, very soft, Organic silt with very fine sand			OVM = 0.3 ppm, BZ = 0.3, AH = 0.3
	1.5	DPT-1					3.0	OVM = 0.3 ppm, BZ = 0.3, AH = 0.3
2.0					**Well Graded Sand (SW)** 0.05-1.4' - Brown with black sand, dry, loose, Fine to coarse sand, some fine gravel size ash/slag-like material, trace shell fragments, trace wood/roots			OVM = 0.3 ppm, BZ = 0.3, AH = 0.3
								OVM = 0.3 ppm, BZ = 0.3, AH = 0.3
					Silt (ML) 1.4-1.5' - Orangish brown, dry, very stiff			OVM = 0.3 ppm, BZ = 0.3, AH = 0.3
	2.5	DPT-2			1.5-2.0' - No recovery			OVM = 0.3 ppm, BZ = 0.3, AH = 0.3
					Silt (ML) 2.0-4.5' - Brown, dry, noncohesive, very stiff, trace very fine sand and clay, trace coarse gray angular gravel		3.0	OVM = 0.3 ppm, BZ = 0.3, AH = 0.3
5 5.0								OVM = 0.3 ppm, BZ = 0.3, AH = 0.3
					4.5-5.0' - No recovery			
					Bottom of Core at 5.0 ft below ground surface on			
10								
15								
20								

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PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-42 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : Parratt-Wolff, Inc.

DRILLING METHOD AND EQUIPMENT : 6620 DT Geoprobe, with 4 ft acetate liners

WATER LEVELS : --- START : 8/2/12 10:00 END : 8/2/12 10:07 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	PP (TSF)	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Organic soil with Sand (OH/OL)** 0.0-0.2' - Dark brown, dry, very soft, silt with fine sand, organics, grass/roots			OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
	1.7	DPT-1						OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
					Well Graded Sand (SW) 0.2-1.4' - Brown to Black, dry, loose, fine to coarse sand with black fine gravel size ash-like material, trace organics-roots			OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
2.0								OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
					brick 1.4-1.7' - Red			OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
					1.7-2.0' - No recovery			
	2.5	DPT-2			**Well Graded Sand (SW)** 2.0-3.8' - Brown to Black, dry, loose, Same as 0.2-1.4, except also tan color and trace brick		4.0	OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
								OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
5 5.0					**Silt (ML)** 3.8-4.5' - Grayish brown, dry, noncohesive, hard, with trace clay, sand and fine gravel, trace black ash-like material			
					4.5-5.0' - No recovery			
					Bottom of Core at 5.0 ft below ground surface on			
10								
15								
20								

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-43 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : Parratt-Wolff, Inc.

DRILLING METHOD AND EQUIPMENT : 6620 DT Geoprobe, with 4 ft acetate liners

WATER LEVELS : --- START : 8/2/12 13:50 END : 8/2/12 14:05 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Silt with Sand (OL/OH)** 0.0-0.3' - dry, very soft, Organic silt with very fine sand and organics-root matter, wood		OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
							OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
	1.7		DPT-1				OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
					Well Graded Sand (SW) 0.3-1.3' - Black, Brown, Tan, moist, very loose, fine to coarse sand with shell fragments, slag-like and ash-like black material, and gray fine gravel		OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
2.0							
					1.3-2.0' - No recovery		OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
					Well Graded Sand (SW) 2.0-2.7' - Black, Brown, Tan, moist, very loose, Same as 0.3-1.3 ft BGS- fine to coarse sand with shell fragments, slag-like and ash-like black material, and gray fine gravel		OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
	2.5		DPT-2				OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
							OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
5 5.0					**brick** 2.7-3.1' - Brick		OVM = 0.2 ppm, BZ = 0.2, AH = 0.2
					Slag-like/Ash-like 3.1-3.6' - Black		
					Sand (SP) 3.6-4.4' - Light brown, dry, loose, very fine sand with fine to coarse angular gray gravel		
					Gravel (GP) 4.4-4.8' - Gray/orangish-brown, dry, Coarse gray gravel with orangish brown silt		
					4.8-5.0' - No recovery		
					Bottom of Core at 5.0 ft below ground surface on		
10							
15							
20							

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-44 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : Parratt-Wolff, Inc.

DRILLING METHOD AND EQUIPMENT : 6620 DT Geoprobe, with 4 ft acetate liners

WATER LEVELS : --- START : 8/2/12 13:10 END : 8/2/12 13:33 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Silt with Sand (OL/OH)**		
	1.7	DPT-1			0.0-0.5' - Dark brown, dry, very soft, organic silt with very fine sand, trace black ash-like material		OVM (ppm) = 0.1, BZ = 0.1, AH = 0.1
							OVM (ppm) = 0.1, BZ = 0.1, AH = 0.1
					Well Graded Sand (SW)		OVM (ppm) = 0.1, BZ = 0.1, AH = 0.1
2.0					0.5-1.2' - Dark brown to black and tan, dry, very loose, fine to coarse sand with shell fragments, black slag-like/ash-like material		
					1.2-2.0' - No recovery		OVM (ppm) = 0.1, BZ = 0.1, AH = 0.1
	2.5	DPT-2			**Well Graded Sand (SW)**		OVM (ppm) = 0.1, BZ = 0.1, AH = 0.1
					2.0-3.5' - Dark brown to black and tan, dry, very loose, Same as 0.5-1.2- fine to coarse sand with shell fragments, black slag-like/ash-like material; with brick from 2.6-3.1		OVM (ppm) = 0.1, BZ = 0.1, AH = 0.1
					3.5-5.0' - No recovery		OVM (ppm) = 0.1, BZ = 0.1, AH = 0.1
5 5.0					Bottom of Core at 5.0 ft below ground surface on		
10							
15							
20							

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-45 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : Parratt-Wolff, Inc.

DRILLING METHOD AND EQUIPMENT : 6620 DT Geoprobe, with 4 ft acetate liners

WATER LEVELS : --- START : 8/2/12 13:40 END : 8/2/12 14:00 LOGGER : N. Loos

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Organic Sand with Silt (OL/OH)**		BZ = 0.0, AH = 0.0
	1.0	1.0			0.0-0.5' - Brown, roots throughout, some fine to medium angular gravel		BZ = 0.0, AH = 0.0
1.0					**Well Graded Sand (SW)**		End of boring at 1.0 ft. Refusal on rocks
					0.5-1.0' - Light brown/gray, fine to coarse sand, fine to coarse gravel		BZ = 0.0, AH = 0.0
					Bottom of Core at 2.0 ft below ground surface on		
5							
10							
15							
20							

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-46 SHEET 1 OF 2

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : Parratt-Wolff, Inc.

DRILLING METHOD AND EQUIPMENT : 6620 DT Geoprobe, with 4 ft acetate liners

WATER LEVELS : 5.7 ft below ground surface START : 8/1/12 13:50 END : 8/2/12 09:00 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Silt (ML)** 0.0-0.3' - Black, moist, soft, low plasticity, Silt with trace fine sand, trace organics (grass/plant roots)		
	2.0	1.3	DPT-1		**Well Graded Sand (SW)** 0.3-0.9' - Black, moist, loose, Fine to coarse sand with ash looking material, little fine angular gravel		
	4.0	1.8	DPT-2		**Poorly Graded Sand (SP)** 0.9-1.3' - Orangish-brown, medium, very fine to fine sand, tree roots, trace medium to coarse sand and fine subangular gravel 1.3-2.0' - No recovery		
5	8.0	3.4	DPT-3		**Poorly Graded Sand (SP)** 2.0-2.4' - Tan, dry, loose, Very fine sand **Silt (ML)** 2.4-3.1' - Light brown, dry, very stiff, silt, trace light gray rock 2.7-2.9 ft BGS **Sand with Interbedded Silt (SW/ML)** 3.1-3.8' - Brown, dry, medium, Well graded fine to coarse sand with fine angular gravel and interbedded silt 3.8-4.0' - No recovery **Silt (ML)** 4.0-4.4' - medium brown, dry, very stiff		
10	12.0	2.4	DPT-4		**Well Graded sand (SW)** 4.4-4.8' - dark grayish brown, moist, medium, well graded fine to coarse sand, trace silt **Clay (CL)** 4.8-5.3' - Orangish brown, moist, stiff, medium to high plasticity, Lean clay **Clay (CL)** 5.3-5.9' - Same as 4.8-5.3, except moist to saturated @ 5.7 ft below ground surface' except Orangish brown, saturated, stiff, medium to high plasticity, Lean clay		
15	16.0	3.8	DPT-5		**Lean Clay (CL)** 5.9-6.4' - Brown, saturated, soft, medium plasticity, lean clay with silt **Well Graded sand (SW)** 6.4-6.7' - Same as 4.4-4.8, except saturated' except dark grayish brown, saturated, medium, well graded fine to coarse sand, trace silt **Lean clay (CL)** 6.7-7.4' - Medium grayish brown, moist, very soft, high plasticity 7.4-8.0' - No recovery		
20		3.8	DPT-6		**Silt (ML)** 8.0-10.4' - Dark olive, saturated, cohesive, very soft, nonplastic 10.4-12.0' - No recovery **Silt (ML)** 12.0-13.0' - Medium olive brown, saturated, noncohesive, nonplastic, medium consistency **SP Silty Sand (SM)** 13.0-15.2' - Medium olive brown, saturated, dense, Very fine sand and silt		

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-46 SHEET 2 OF 2

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : Parratt-Wolff, Inc.

DRILLING METHOD AND EQUIPMENT : 6620 DT Geoprobe, with 4 ft acetate liners

WATER LEVELS : 5.7 ft below ground surface START : 8/1/12 13:50 END : 8/2/12 09:00 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
20.0					**Silt (ML)** 15.2-15.8' - Olive brown, moist, cohesive, hard, medium plasticity, silt with clay		
					15.8-16.0' - No recovery		
	4.0	DPT-7			**Silt (ML)** 16.0-18.3' - Dark olive brown, saturated, cohesive, hard, non to low plasticity		
					Silty Sand (SP) 18.3-19.8' - Medium Olive brown, saturated, medium, Very fine sand and silt		
24.0					**Silty Clay (CL)** 20.0-24.0' - Medium olive gray, moist, cohesive, very stiff, high plasticity		
	1.0	DPT-8			**Gravel (GW)** 24.0-25.0' - Dark gray, saturated, dense, well graded fine to coarse gravel, with little ~40% lean clay and silt		
25 25.0					Bottom of Core at 25.0 ft below ground surface on		
30							
35							
40							

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-47 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : CH2M HILL

DRILLING METHOD AND EQUIPMENT : Hand auger, with 3" auger bucket

WATER LEVELS : --- START : 7/31/12 11:20 END : 7/31/12 11:40 LOGGER : N. Loos

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Organic Sand with Silt (OH/OL)**		BZ = 0.0, AH = 0.0
	2.0				0.0-0.5' - Dark brown, roots throughout, some fine to medium angular gravel		BZ = 0.0, AH = 0.0
					Well graded sand (SW)		BZ = 0.0, AH = 0.0
2.0					0.5-2.0' - Light brown/gray, Fine to coarse sand, with fine to coarse angular gravel, rock fragments		BZ = 0.0, AH = 0.0
					Bottom of Core at 2.0 ft below ground surface on		
5							
10							
15							
20							

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-48 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : CH2M HILL

DRILLING METHOD AND EQUIPMENT : Hand auger, with 3" auger bucket

WATER LEVELS : --- START : 7/31/12 10:20 END : 7/31/12 10:40 LOGGER : N. Loos

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Organic Sand with Silt (OH/OL)**		BZ = 0.0, AH = 0.0
	2.0	2.0			0.0-0.5' - Dark brown, roots, some fine to medium angular gravel		BZ = 0.0, AH = 0.0
					Well graded sand (SW)		BZ = 0.0, AH = 0.0
2.0					0.5-2.0' - Light brown/gray, Fine to coarse sand, with fine to coarse angular gravel, rock fragments		BZ = 0.0, AH = 0.0
					Bottom of Core at 2.0 ft below ground surface on		
5							
10							
15							
20							

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-49 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : CH2M HILL

DRILLING METHOD AND EQUIPMENT : Hand auger, with 3" auger bucket

WATER LEVELS : --- START : 7/30/12 15:25 END : 7/30/12 15:30 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Organic Silt and Sand (OH/OL)**		BZ = 0.2, AH = 0.2
	2.0	2.0	HA		0.0-0.15' - Dark brown, dry, Organics (roots), some fine to coarse angular gravel		In hole at 0.5'=0.3 ppm
					Well graded sand (SW)		BZ = 0.2, AH = 0.2
2.0					0.15-2.0' - Light gray, dry, well graded fine to coarse sand with ~40% fine to coarse gravel		BZ = 0.2, AH = 0.2
					Bottom of Core at 2.0 ft below ground surface on		BZ = 0.2, AH = 0.2
5							
10							
15							
20							

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-50 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : CH2M HILL

DRILLING METHOD AND EQUIPMENT : Hand auger, with 3" auger bucket

WATER LEVELS : --- START : 7/30/12 15:02 END : 7/30/12 15:20 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Organic Sand with Silt (OL)**		BZ = 0.2, AH = 0.2
	2.0				0.0-1.0' - Dark brown, dry, very fine sand with silt, lots of organics, some fine to coarse subangular gravel		Soil at 0.5'=0.2 ppm
					Well graded sand (SW)		BZ = 0.2, AH = 0.2
2.0					1.0-2.0' - dry, Fine to coarse sand with fine to coarse gravel, some organics		BZ = 0.2, AH = 0.2
					Bottom of Core at 2.0 ft below ground surface on		BZ = 0.2, AH = 0.2
5							
10							
15							
20							

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-51 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : CH2M HILL

DRILLING METHOD AND EQUIPMENT : Hand auger, with 3" auger bucket

WATER LEVELS : --- START : 7/30/12 14:40 END : 7/30/12 14:50 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0 0.5	0.5	HA			**Sand with Silt (SP-SM)** 0.0-0.3' - Dark brown, dry, Fine sand with silt, trace organics **Silt (ML)** 0.3-0.5' - Brown, dry, nonplastic, Trace clay Bottom of Core at 0.5 ft below ground surface on		BZ = 0.1, AH = 0.1 BZ = 0.1, AH = 0.1
5							
10							
15							
20							

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-52 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : CH2M HILL

DRILLING METHOD AND EQUIPMENT : Hand auger, with 3" auger bucket

WATER LEVELS : --- START : 7/30/12 14:10 END : 7/30/12 14:20 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0	0.8	0.8	HA		**Sand with Silt (OL)** 0.0-0.3' - Dark brown, dry, Fine sand with silt, trace medium to coarse sand, lots of organics **Well graded sand (SW)** 0.3-0.5' - Tan to light brown, dry, fine to coarse sand with fine to coarse gravel, organics **Rock** 0.5-0.75' - Rock Bottom of Core at 0.8 ft below ground surface on		BZ = 0.0, AH = 0.0 Soil at 0.3 ft: 0.0 ppm Refusal at 0.75, Hitting rock 3 tries BZ = 0.0, AH = 0.0
0.8							
5							
10							
15							
20							

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-53 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : CH2M HILL

DRILLING METHOD AND EQUIPMENT : Hand auger, with 3" auger bucket

WATER LEVELS : --- START : 7/30/12 11:45 END : 7/30/12 11:55 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Silt with Sand (ML)**		
	1.0	1.0	HA		0.0-0.5' - Very dark brown, moist, Silt with very fine sand, surface organics		BZ = 0.2, AH = 0.2 In soil @ 0.2'= 0.2 ppm
1.0					**Sand with Silt (SP-SM)**		BZ = 0.2, AH = 0.2
					0.5-1.0' - Very dark brown, moist, low to non plasticity, Very fine sand with silt and clay		BZ = 0.2, AH = 0.2
					Bottom of Core at 1.0 ft below ground surface on		
5							
10							
15							
20							

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-54 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : CH2M HILL

DRILLING METHOD AND EQUIPMENT : Hand auger, with 3" auger bucket

WATER LEVELS : --- START : 7/30/12 11:17 END : 7/30/12 11:35 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Sand with Silt (SP-SM)**		
	1.0	1.0	HA		0.0-0.5' - Dark grayish brown, moist, very fine to fine sand with silt, surface organics		BZ = 0.2, AH = 0.2 In soil @ 0.5' = 0.8 ppm
1.0					**Lean clay (CL)**		BZ = 0.2, AH = 0.2 In soil @ 1.0 = 0.4 ppm
					0.5-1.0' - Reddish brown, dry to moist, medium plasticity		
					Bottom of Core at 1.0 ft below ground surface on		
5							
10							
15							
20							

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-55 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : CH2M HILL

DRILLING METHOD AND EQUIPMENT : Hand auger, with 3" auger bucket

WATER LEVELS : --- START : 7/30/12 11:05 END : 7/30/12 11:15 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Sand with Silt (SP-SM/OL)**		
	2.0	2.0	HA		0.0-0.5' - Dark grayish brown, moist, very fine sand with silt, surface organics		BZ = 0.2, AH = 0.2
					Poorly graded sand (SP) 0.5-1.0' - Tan to orangish brown, moist, Very fine to fine sand		BZ = 0.2, AH = 0.2
2.0					**Poorly graded sand (SP)** 1.0-2.0' - Tan to white, moist, fine sand		BZ = 0.2, AH = 0.2
					Bottom of Core at 2.0 ft below ground surface on		
5							
10							
15							
20							

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-56 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : CH2M HILL

DRILLING METHOD AND EQUIPMENT : Hand auger, with 3" auger bucket

WATER LEVELS : --- START : 7/30/12 10:45 END : 7/30/2012 LOGGER : D. Whitaker

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Sand with silt (OL)**		
	2.0	2.0	HA		0.0-0.5' - Grayish brown, moist, Topsoil, surface organics		BZ = 0.2, AH = 0.2
					Sand (SP)		
2.0					0.5-2.0' - Tan to light orangish brown, moist, Poorly graded very fine sand, trace black sand, trace medium to coarse sand		BZ = 0.2, AH = 0.2
					Bottom of Core at 2.0 ft below ground surface on		
5							
10							
15							
20							

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-57 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : CH2M HILL

DRILLING METHOD AND EQUIPMENT : Hand auger, with 3" auger bucket

WATER LEVELS : --- START : 7/31/12 14:05 END : 7/31/12 14:20 LOGGER : N. Loos

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Silty fine Sand (SC-SM)**		
	1.3	1.3			0.0-0.15' - Trace organics		BZ = 0.2, AH = 0.2
1.3					**Organic sand with silt (OH-SM)**		Refusal/End of boring at 1.3 ft
					0.15-1.3' - Brown, roots, some fine to coarse angular and rounded gravel		1st attempt: Refusal at 1 ft
							2nd attempt: Refusal at 0.7 ft
							3rd attempt (2 ft west): Refusal at 1.3 ft
					Bottom of Core at 1.3 ft below ground surface on		1.0 in hole
							BZ = 0.2, AH = 0.2
							BZ = 0.2, AH = 0.2
5							
10							
15							
20							

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
439926.01.FS	DE-58 SHEET 1 OF 1

SOIL BORING LOG

PROJECT : DOW Waterloo Gorham Street Delineation LOCATION : Waterloo, NY

ELEVATION : DRILLING CONTRACTOR : CH2M HILL

DRILLING METHOD AND EQUIPMENT : Hand auger, with 3" auger bucket

WATER LEVELS : --- START : 7/31/12 08:15 END : 7/31/12 08:40 LOGGER : N. Loos

DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)	RECOVERY (in)	#TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0					**Organic sandy silt (OH-SM)**		
	1.0	1.0			0.0-0.5' - Dark brown, moist, Organic matter (roots), some medium to coarse angular gravel		BZ = 0.0, AH = 0.0
1.0					**Silty sand (SM)**		BZ = 0.0, AH = 0.0
					0.5-1.0' - Brown, dry, Some fine to coarse angular gravel, rock fragments, brick fragments		BZ = 0.0, AH = 0.0
					Bottom of Core at 1.0 ft below ground surface on		
5							
10							
15							
20							

Attachment 2
Laboratory Data

CRITIGEN

TECHNICAL MEMORANDUM

DATE: December 20, 2012

TO: Brian Carling
1717 Arch Street
Suite 4400
Philadelphia, PA 19103

FROM: Jennifer Telford
Teleworker Location
Warrenton, VA 20186

RE: **Original Submittal - NYSDEC ID 8500018**
Electronic Data Deliverable (EDD) for July 2012 Gorham Street Soil Sampling at Former Hampshire Chemical Corp. Site, Waterloo, NY

Enclosed please find our original submittal of the Electronic Data Deliverable (EDD) for July 2012 Gorham Street Soil Sampling at the Former Hampshire Chemical Corp. Site in Waterloo, Seneca County, New York.

Included in this submittal are the following NYSDEC EDD files (version 1):

- Initial EDD files:
  - Subfacility file (Subfacility_v1)
  - Location file (Location_v1)
- Chemistry EDD files:
  - Chemistry Sample file (Sample_v1)
  - Chemistry Test/Result with QC Data file (TestResultsQC_v1)
  - Batch file (Batch_v1)
- An electronic copy of this cover letter (PDF email attachment)

NEW VALID VALUES

The following new valid values are requested for approval and are required by the attached submittal.

#SUBFACILITY_TYPE	SUBFACILITY_DESC
AOC	Area of Concern

#COMPANY_CODE	COMPANY_TYPE	COMPANY_NAME
CH2MHILL	CONSULTANT	CH2M HILL, INC.

#PREP_METHOD	PREFERRED_NAME
SW3051A	MICROWAVE ASSISTED ACID DIGESTION OF SOILS, SEDIMENTS, SLUDGES AND OIL

FILES NOT SUBMITTED

The following data files are not provided in this EDD deliverable:

Initial Submittal Files

- Data Provider file (DataProvider_v1): *Included in previous submission for October 2012 Residential Soil Sampling at the Former Hampshire Chemical Corp. Site in Waterloo, Seneca County, New York.*

Field Submittal Files

- Drilling Activity file (DrillActivity_v1): *Preparation not part of current project scope.*
- Lithology file (Lithology_v1): *Preparation not part of current project scope.*
- Well file (Well_v1): *Not applicable to current project scope.*
- Well Construction file (WellConstruction_v1): *Not applicable to current project scope.*
- Geology Sample file (GeologySamples_v1): *Not applicable to current project scope.*
- Water Table file (WaterTable_v1): *Not applicable to current project scope.*
- Down Hole Point file (DownholePoint_v1): *Not applicable to current project scope.*
- Soil Gas file (SoilGas_v1): *Not applicable to current project scope.*
- Water Level file (WaterLevel_v1): *Not applicable to current project scope.*
- Extraction-Injection Well file (ExtractionInjectionWells_v1): *Not applicable to current project scope.*
- Field Results file (FieldResults_v1): *Preparation not part of current project scope.*

Vapor Intrusion Submittal Files

- Vapor Intrusion Building Address file (VI_Bldg_Address): *Not applicable to current project scope.*
- Building Data file (VI_Building): *Not applicable to current project scope.*
- Vapor Intrusion Task Parameters file (VI_Task_Parameters): *Not applicable to current project scope.*
- Vapor Intrusion Samples file (VI_Sample): *Not applicable to current project scope.*

Please feel free to contact me at 703-577-5748 with any questions or issues that you may have regarding this deliverable.

#sys_sample_code	lab_anl_method_name	analysis_date	total_or_dissolved	column_number	test_type	test_batch_type	test_batch_id
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05428-03LCSL12080096	SW6010B	2012/08/03 11:33:00	T	NA	INITIAL ANALYSIS	WG405458	
05428-03LCSL12080096	SW6010B	2012/08/03 11:33:00	T	NA	INITIAL PREP	WG405428	
05429-02BLANKL12080096	SW6010B	2012/08/03 13:23:00	T	NA	INITIAL ANALYSIS	WG405469	
05429-02BLANKL12080096	SW6010B	2012/08/03 13:23:00	T	NA	INITIAL PREP	WG405429	
05429-03LCSL12080096	SW6010B	2012/08/03 13:27:00	T	NA	INITIAL ANALYSIS	WG405469	
05429-03LCSL12080096	SW6010B	2012/08/03 13:27:00	T	NA	INITIAL PREP	WG405429	
05438-02BLANKL12080096	SW6010B	2012/08/03 15:16:00	T	NA	INITIAL ANALYSIS	WG405472	
05438-02BLANKL12080096	SW6010B	2012/08/03 15:16:00	T	NA	INITIAL PREP	WG405438	
05438-03LCSL12080096	SW6010B	2012/08/03 15:20:00	T	NA	INITIAL ANALYSIS	WG405472	
05438-03LCSL12080096	SW6010B	2012/08/03 15:20:00	T	NA	INITIAL PREP	WG405438	
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05661-03LCSL12080188	SW6010B	2012/08/07 19:07:00	T	NA	INITIAL PREP	WG405661	
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05706-02BLANKL12080188	SW6010B	2012/08/08 09:29:00	T	NA	INITIAL PREP	WG405706	
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ANALYSIS WG405796
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05792-02BLANKL12080188 SW6010B 2012/08/08 19:12:00 T NA INITIAL PREP WG405792
05792-02BLANKL12080188 SW6010B 2012/08/09 17:13:00 T NA REEXTRACT ANALYSIS WG405898
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05792-03LCSL12080188 SW6010B 2012/08/08 19:16:00 T NA INITIAL PREP WG405792
05792-03LCSL12080188 SW6010B 2012/08/09 17:16:00 T NA REEXTRACT ANALYSIS WG405898
05792-03LCSL12080188 SW6010B 2012/08/09 17:16:00 T NA REEXTRACT PREP WG405792
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DE-38-01A-08022012 SW6010B 2012/08/07 19:48:00 T NA INITIAL ANALYSIS WG405710
DE-38-01A-08022012 SW6010B 2012/08/07 19:48:00 T NA INITIAL PREP WG405661
DE-38-01B-08022012 SW6010B 2012/08/07 19:52:00 T NA INITIAL ANALYSIS WG405710
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DE-38-01C-08022012 SW6010B 2012/08/07 19:55:00 T NA INITIAL ANALYSIS WG405710
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DE-38-01D-08022012 SW6010B 2012/08/07 19:59:00 T NA INITIAL ANALYSIS WG405710
DE-38-01D-08022012 SW6010B 2012/08/07 19:59:00 T NA INITIAL PREP WG405661
DE-38-01E-08022012 SW6010B 2012/08/08 09:36:00 T NA INITIAL ANALYSIS WG405796
DE-38-01E-08022012 SW6010B 2012/08/08 09:36:00 T NA INITIAL PREP WG405706
DE-38-01E-08022012MSDSD SW6010B 2012/08/08 09:43:00 T NA INITIAL ANALYSIS WG405796
DE-38-01E-08022012MSDSD SW6010B 2012/08/08 09:43:00 T NA INITIAL PREP WG405706
DE-38-01E-08022012MSMS SW6010B 2012/08/08 09:39:00 T NA INITIAL ANALYSIS WG405796
DE-38-01E-08022012MSMS SW6010B 2012/08/08 09:39:00 T NA INITIAL PREP WG405706
DE-38-01F-08022012 SW6010B 2012/08/07 20:03:00 T NA INITIAL ANALYSIS WG405710
DE-38-01F-08022012 SW6010B 2012/08/07 20:03:00 T NA INITIAL PREP WG405661
DE-38-01G-08022012 SW6010B 2012/08/07 20:06:00 T NA INITIAL ANALYSIS WG405710
DE-38-01G-08022012 SW6010B 2012/08/07 20:06:00 T NA INITIAL PREP WG405661
DE-39-01A-08022012 SW6010B 2012/08/07 20:13:00 T NA INITIAL ANALYSIS WG405710
DE-39-01A-08022012 SW6010B 2012/08/07 20:13:00 T NA INITIAL PREP WG405661

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DE-40-01C-08022012	SW6010B	2012/08/07 20:48:00	T	NA	INITIAL PREP WG405661
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DE-40-01D-08022012	SW6010B	2012/08/08 11:36:00	T	NA	INITIAL PREP WG405706
DE-40-01E-08022012	SW6010B	2012/08/08 11:39:00	T	NA	INITIAL ANALYSIS WG405796
DE-40-01E-08022012	SW6010B	2012/08/08 11:39:00	T	NA	INITIAL PREP WG405706
DE-40-01F-08022012	SW6010B	2012/08/08 11:42:00	T	NA	INITIAL ANALYSIS WG405796
DE-40-01F-08022012	SW6010B	2012/08/08 11:42:00	T	NA	INITIAL PREP WG405706
DE-40-01G-08022012	SW6010B	2012/08/08 11:46:00	T	NA	INITIAL ANALYSIS WG405796
DE-40-01G-08022012	SW6010B	2012/08/08 11:46:00	T	NA	INITIAL PREP WG405706
DE-41-01A-08022012	SW6010B	2012/08/08 11:53:00	T	NA	INITIAL ANALYSIS WG405796
DE-41-01A-08022012	SW6010B	2012/08/08 11:53:00	T	NA	INITIAL PREP

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WG405706
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ANALYSIS        WG405796
DE-41-01C-08022012      SW6010B 2012/08/08 12:07:00     T       NA      INITIAL PREP
WG405706
DE-41-01D-08022012      SW6010B 2012/08/08 12:10:00     T       NA      INITIAL
ANALYSIS        WG405796
DE-41-01D-08022012      SW6010B 2012/08/08 12:10:00     T       NA      INITIAL PREP
WG405706
DE-41-01E-08022012      SW6010B 2012/08/08 12:14:00     T       NA      INITIAL
ANALYSIS        WG405796
DE-41-01E-08022012      SW6010B 2012/08/08 12:14:00     T       NA      INITIAL PREP
WG405706
DE-41-01F-08022012      SW6010B 2012/08/08 12:17:00     T       NA      INITIAL
ANALYSIS        WG405796
DE-41-01F-08022012      SW6010B 2012/08/08 12:17:00     T       NA      INITIAL PREP
WG405706
DE-41-01G-08022012      SW6010B 2012/08/08 12:21:00     T       NA      INITIAL
ANALYSIS        WG405796
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WG405706
DE-42-01A-08022012      SW6010B 2012/08/07 18:36:00     T       NA      INITIAL
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WG405647
DE-42-01C-08022012      SW6010B 2012/08/07 18:42:00     T       NA      INITIAL
ANALYSIS        WG405708
DE-42-01C-08022012      SW6010B 2012/08/07 18:42:00     T       NA      INITIAL PREP
WG405647
DE-42-01D-08022012      SW6010B 2012/08/07 18:46:00     T       NA      INITIAL
ANALYSIS        WG405708
DE-42-01D-08022012      SW6010B 2012/08/07 18:46:00     T       NA      INITIAL PREP
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ANALYSIS        WG405708
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WG405647
DE-42-01F-08022012      SW6010B 2012/08/07 18:53:00     T       NA      INITIAL
ANALYSIS        WG405708
DE-42-01F-08022012      SW6010B 2012/08/07 18:53:00     T       NA      INITIAL PREP
WG405647
DE-42-01G-08022012      SW6010B 2012/08/07 19:20:00     T       NA      INITIAL
ANALYSIS        WG405710
DE-42-01G-08022012      SW6010B 2012/08/07 19:20:00     T       NA      INITIAL PREP
WG405661
DE-43-01A-08022012      SW6010B 2012/08/08 20:22:00     T       NA      INITIAL
ANALYSIS        WG405898
DE-43-01A-08022012      SW6010B 2012/08/08 20:22:00     T       NA      INITIAL PREP
WG405792
DE-43-01B-08022012      SW6010B 2012/08/08 20:26:00     T       NA      INITIAL
ANALYSIS        WG405898
DE-43-01B-08022012      SW6010B 2012/08/08 20:26:00     T       NA      INITIAL PREP
WG405792
DE-43-01C-08022012      SW6010B 2012/08/08 20:36:00     T       NA      INITIAL
ANALYSIS        WG405898
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DE-43-01C-08022012	SW6010B	2012/08/08 20:36:00	T	NA	INITIAL PREP WG405792
DE-43-01D-08022012	SW6010B	2012/08/08 20:39:00	T	NA	INITIAL ANALYSIS WG405898
DE-43-01D-08022012	SW6010B	2012/08/08 20:39:00	T	NA	INITIAL PREP WG405792
DE-43-01E-08022012	SW6010B	2012/08/08 20:43:00	T	NA	INITIAL ANALYSIS WG405898
DE-43-01E-08022012	SW6010B	2012/08/08 20:43:00	T	NA	INITIAL PREP WG405792
DE-43-01F-08022012	SW6010B	2012/08/08 20:46:00	T	NA	INITIAL ANALYSIS WG405898
DE-43-01F-08022012	SW6010B	2012/08/08 20:46:00	T	NA	INITIAL PREP WG405792
DE-43-01G-08022012	SW6010B	2012/08/08 20:50:00	T	NA	INITIAL ANALYSIS WG405898
DE-43-01G-08022012	SW6010B	2012/08/08 20:50:00	T	NA	INITIAL PREP WG405792
DE-44-01A-08022012	SW6010B	2012/08/08 12:28:00	T	NA	INITIAL ANALYSIS WG405796
DE-44-01A-08022012	SW6010B	2012/08/08 12:28:00	T	NA	INITIAL PREP WG405706
DE-44-01B-08022012	SW6010B	2012/08/08 19:58:00	T	NA	INITIAL ANALYSIS WG405898
DE-44-01B-08022012	SW6010B	2012/08/08 19:58:00	T	NA	INITIAL PREP WG405792
DE-44-01C-08022012	SW6010B	2012/08/08 20:01:00	T	NA	INITIAL ANALYSIS WG405898
DE-44-01C-08022012	SW6010B	2012/08/08 20:01:00	T	NA	INITIAL PREP WG405792
DE-44-01D-08022012	SW6010B	2012/08/08 20:05:00	T	NA	INITIAL ANALYSIS WG405898
DE-44-01D-08022012	SW6010B	2012/08/08 20:05:00	T	NA	INITIAL PREP WG405792
DE-44-01E-08022012	SW6010B	2012/08/08 20:08:00	T	NA	INITIAL ANALYSIS WG405898
DE-44-01E-08022012	SW6010B	2012/08/08 20:08:00	T	NA	INITIAL PREP WG405792
DE-44-01F-08022012	SW6010B	2012/08/08 20:12:00	T	NA	INITIAL ANALYSIS WG405898
DE-44-01F-08022012	SW6010B	2012/08/08 20:12:00	T	NA	INITIAL PREP WG405792
DE-44-01G-08022012	SW6010B	2012/08/08 20:16:00	T	NA	INITIAL ANALYSIS WG405898
DE-44-01G-08022012	SW6010B	2012/08/08 20:16:00	T	NA	INITIAL PREP WG405792
DE-45-01A-07312012	SW6010B	2012/08/03 14:52:00	T	NA	INITIAL ANALYSIS WG405469
DE-45-01A-07312012	SW6010B	2012/08/03 14:52:00	T	NA	INITIAL PREP WG405429
DE-45-01B-07312012	SW6010B	2012/08/03 14:55:00	T	NA	INITIAL ANALYSIS WG405469
DE-45-01B-07312012	SW6010B	2012/08/03 14:55:00	T	NA	INITIAL PREP WG405429
DE-45-02C-07312012	SW6010B	2012/08/03 14:59:00	T	NA	INITIAL ANALYSIS WG405469
DE-45-02C-07312012	SW6010B	2012/08/03 14:59:00	T	NA	INITIAL PREP WG405429
DE-45-02C-07312012MS	SW6010B	2012/08/03 15:02:00	T	NA	INITIAL ANALYSIS WG405469
DE-45-02C-07312012MS	SW6010B	2012/08/03 15:02:00	T	NA	INITIAL PREP WG405429
DE-45-02C-07312012SD	SW6010B	2012/08/03 15:06:00	T	NA	INITIAL

```
ANALYSIS        WG405469
DE-45-02C-07312012SD    SW6010B 2012/08/03 15:06:00     T       NA      INITIAL PREP
WG405429
DE-46-01A-08012012      SW6010B 2012/08/07 18:01:00     T       NA      INITIAL
ANALYSIS        WG405708
DE-46-01A-08012012      SW6010B 2012/08/07 18:01:00     T       NA      INITIAL PREP
WG405647
DE-46-01A-08012012MSDSD SW6010B 2012/08/07 18:07:00     T       NA      INITIAL
ANALYSIS        WG405708
DE-46-01A-08012012MSDSD SW6010B 2012/08/07 18:07:00     T       NA      INITIAL PREP
WG405647
DE-46-01A-08012012MSMS  SW6010B 2012/08/07 18:04:00     T       NA      INITIAL
ANALYSIS        WG405708
DE-46-01A-08012012MSMS  SW6010B 2012/08/07 18:04:00     T       NA      INITIAL PREP
WG405647
DE-46-01B-08012012      SW6010B 2012/08/07 19:10:00     T       NA      INITIAL
ANALYSIS        WG405710
DE-46-01B-08012012      SW6010B 2012/08/07 19:10:00     T       NA      INITIAL PREP
WG405661
DE-46-01B-08012012MSDSD SW6010B 2012/08/07 19:17:00     T       NA      INITIAL
ANALYSIS        WG405710
DE-46-01B-08012012MSDSD SW6010B 2012/08/07 19:17:00     T       NA      INITIAL PREP
WG405661
DE-46-01B-08012012MSMS  SW6010B 2012/08/07 19:14:00     T       NA      INITIAL
ANALYSIS        WG405710
DE-46-01B-08012012MSMS  SW6010B 2012/08/07 19:14:00     T       NA      INITIAL PREP
WG405661
DE-46-01C-08012012      SW6010B 2012/08/07 18:11:00     T       NA      INITIAL
ANALYSIS        WG405708
DE-46-01C-08012012      SW6010B 2012/08/07 18:11:00     T       NA      INITIAL PREP
WG405647
DE-46-01D-08012012      SW6010B 2012/08/07 18:14:00     T       NA      INITIAL
ANALYSIS        WG405708
DE-46-01D-08012012      SW6010B 2012/08/07 18:14:00     T       NA      INITIAL PREP
WG405647
DE-46-01E-08012012      SW6010B 2012/08/07 18:18:00     T       NA      INITIAL
ANALYSIS        WG405708
DE-46-01E-08012012      SW6010B 2012/08/07 18:18:00     T       NA      INITIAL PREP
WG405647
DE-46-01F-08012012      SW6010B 2012/08/07 18:22:00     T       NA      INITIAL
ANALYSIS        WG405708
DE-46-01F-08012012      SW6010B 2012/08/07 18:22:00     T       NA      INITIAL PREP
WG405647
DE-46-01G-08012012      SW6010B 2012/08/07 18:32:00     T       NA      INITIAL
ANALYSIS        WG405708
DE-46-01G-08012012      SW6010B 2012/08/07 18:32:00     T       NA      INITIAL PREP
WG405647
DE-47-01A-07312012      SW6010B 2012/08/03 14:31:00     T       NA      INITIAL
ANALYSIS        WG405469
DE-47-01A-07312012      SW6010B 2012/08/03 14:31:00     T       NA      INITIAL PREP
WG405429
DE-47-01B-07312012      SW6010B 2012/08/03 14:35:00     T       NA      INITIAL
ANALYSIS        WG405469
DE-47-01B-07312012      SW6010B 2012/08/03 14:35:00     T       NA      INITIAL PREP
WG405429
DE-47-01C-07312012      SW6010B 2012/08/03 14:45:00     T       NA      INITIAL
ANALYSIS        WG405469
DE-47-01C-07312012      SW6010B 2012/08/03 14:45:00     T       NA      INITIAL PREP
WG405429
DE-47-01D-07312012      SW6010B 2012/08/03 14:48:00     T       NA      INITIAL
ANALYSIS        WG405469
DE-47-01D-07312012      SW6010B 2012/08/03 14:48:00     T       NA      INITIAL PREP
WG405429
```

DE-48-01A-07312012	SW6010B	2012/08/03 14:18:00	T	NA	INITIAL ANALYSIS	WG405469
DE-48-01A-07312012	SW6010B	2012/08/03 14:18:00	T	NA	INITIAL PREP	WG405429
DE-48-01B-07312012	SW6010B	2012/08/03 14:21:00	T	NA	INITIAL ANALYSIS	WG405469
DE-48-01B-07312012	SW6010B	2012/08/03 14:21:00	T	NA	INITIAL PREP	WG405429
DE-48-01C-07312012	SW6010B	2012/08/03 14:25:00	T	NA	INITIAL ANALYSIS	WG405469
DE-48-01C-07312012	SW6010B	2012/08/03 14:25:00	T	NA	INITIAL PREP	WG405429
DE-48-01D-07312012	SW6010B	2012/08/03 14:28:00	T	NA	INITIAL ANALYSIS	WG405469
DE-48-01D-07312012	SW6010B	2012/08/03 14:28:00	T	NA	INITIAL PREP	WG405429
DE-49-01A-07302012	SW6010B	2012/08/03 13:37:00	T	NA	INITIAL ANALYSIS	WG405469
DE-49-01A-07302012	SW6010B	2012/08/03 13:37:00	T	NA	INITIAL PREP	WG405429
DE-49-01B-07302012	SW6010B	2012/08/03 13:40:00	T	NA	INITIAL ANALYSIS	WG405469
DE-49-01B-07302012	SW6010B	2012/08/03 13:40:00	T	NA	INITIAL PREP	WG405429
DE-49-01C-07302012	SW6010B	2012/08/03 13:43:00	T	NA	INITIAL ANALYSIS	WG405469
DE-49-01C-07302012	SW6010B	2012/08/03 13:43:00	T	NA	INITIAL PREP	WG405429
DE-49-01D-07302012	SW6010B	2012/08/03 14:04:00	T	NA	INITIAL ANALYSIS	WG405469
DE-49-01D-07302012	SW6010B	2012/08/03 14:04:00	T	NA	INITIAL PREP	WG405429
DE-50-01A-07302012	SW6010B	2012/08/03 13:03:00	T	NA	INITIAL ANALYSIS	WG405458
DE-50-01A-07302012	SW6010B	2012/08/03 13:03:00	T	NA	INITIAL PREP	WG405428
DE-50-01B-07302012	SW6010B	2012/08/03 13:06:00	T	NA	INITIAL ANALYSIS	WG405458
DE-50-01B-07302012	SW6010B	2012/08/03 13:06:00	T	NA	INITIAL PREP	WG405428
DE-50-01B-07302012MS	SW6010B	2012/08/03 13:10:00	T	NA	INITIAL ANALYSIS	WG405458
DE-50-01B-07302012MS	SW6010B	2012/08/03 13:10:00	T	NA	INITIAL PREP	WG405428
DE-50-01B-07302012SD	SW6010B	2012/08/03 13:13:00	T	NA	INITIAL ANALYSIS	WG405458
DE-50-01B-07302012SD	SW6010B	2012/08/03 13:13:00	T	NA	INITIAL PREP	WG405428
DE-50-01C-07302012	SW6010B	2012/08/03 13:30:00	T	NA	INITIAL ANALYSIS	WG405469
DE-50-01C-07302012	SW6010B	2012/08/03 13:30:00	T	NA	INITIAL PREP	WG405429
DE-50-01D-07302012	SW6010B	2012/08/03 13:33:00	T	NA	INITIAL ANALYSIS	WG405469
DE-50-01D-07302012	SW6010B	2012/08/03 13:33:00	T	NA	INITIAL PREP	WG405429
DE-51-01A-07302012	SW6010B	2012/08/03 12:56:00	T	NA	INITIAL ANALYSIS	WG405458
DE-51-01A-07302012	SW6010B	2012/08/03 12:56:00	T	NA	INITIAL PREP	WG405428
DE-51-01B-07302012	SW6010B	2012/08/03 12:59:00	T	NA	INITIAL ANALYSIS	WG405458
DE-51-01B-07302012	SW6010B	2012/08/03 12:59:00	T	NA	INITIAL PREP	

WG405428
DE-52-01A-07302012 SW6010B 2012/08/03 12:42:00 T NA INITIAL
ANALYSIS WG405458
DE-52-01A-07302012 SW6010B 2012/08/03 12:42:00 T NA INITIAL PREP
WG405428
DE-52-01B-07302012 SW6010B 2012/08/03 12:52:00 T NA INITIAL
ANALYSIS WG405458
DE-52-01B-07302012 SW6010B 2012/08/03 12:52:00 T NA INITIAL PREP
WG405428
DE-53-01A-07302012 SW6010B 2012/08/03 12:32:00 T NA INITIAL
ANALYSIS WG405458
DE-53-01A-07302012 SW6010B 2012/08/03 12:32:00 T NA INITIAL PREP
WG405428
DE-53-01B-07302012 SW6010B 2012/08/03 12:35:00 T NA INITIAL
ANALYSIS WG405458
DE-53-01B-07302012 SW6010B 2012/08/03 12:35:00 T NA INITIAL PREP
WG405428
DE-53-01C-07302012 SW6010B 2012/08/03 12:39:00 T NA INITIAL
ANALYSIS WG405458
DE-53-01C-07302012 SW6010B 2012/08/03 12:39:00 T NA INITIAL PREP
WG405428
DE-54-01A-07302012 SW6010B 2012/08/03 12:21:00 T NA INITIAL
ANALYSIS WG405458
DE-54-01A-07302012 SW6010B 2012/08/03 12:21:00 T NA INITIAL PREP
WG405428
DE-54-01B-07302012 SW6010B 2012/08/03 12:25:00 T NA INITIAL
ANALYSIS WG405458
DE-54-01B-07302012 SW6010B 2012/08/03 12:25:00 T NA INITIAL PREP
WG405428
DE-54-01C-07302012 SW6010B 2012/08/03 12:28:00 T NA INITIAL
ANALYSIS WG405458
DE-54-01C-07302012 SW6010B 2012/08/03 12:28:00 T NA INITIAL PREP
WG405428
DE-55-01A-07302012 SW6010B 2012/08/03 12:00:00 T NA INITIAL
ANALYSIS WG405458
DE-55-01A-07302012 SW6010B 2012/08/03 12:00:00 T NA INITIAL PREP
WG405428
DE-55-01B-07302012 SW6010B 2012/08/03 12:11:00 T NA INITIAL
ANALYSIS WG405458
DE-55-01B-07302012 SW6010B 2012/08/03 12:11:00 T NA INITIAL PREP
WG405428
DE-55-01C-07302012 SW6010B 2012/08/03 12:14:00 T NA INITIAL
ANALYSIS WG405458
DE-55-01C-07302012 SW6010B 2012/08/03 12:14:00 T NA INITIAL PREP
WG405428
DE-55-01D-07302012 SW6010B 2012/08/03 12:18:00 T NA INITIAL
ANALYSIS WG405458
DE-55-01D-07302012 SW6010B 2012/08/03 12:18:00 T NA INITIAL PREP
WG405428
DE-56-01A-07302012 SW6010B 2012/08/03 11:36:00 T NA INITIAL
ANALYSIS WG405458
DE-56-01A-07302012 SW6010B 2012/08/03 11:36:00 T NA INITIAL PREP
WG405428
DE-56-01B-07302012 SW6010B 2012/08/03 11:50:00 T NA INITIAL
ANALYSIS WG405458
DE-56-01B-07302012 SW6010B 2012/08/03 11:50:00 T NA INITIAL PREP
WG405428
DE-56-01D-07302012 SW6010B 2012/08/03 11:57:00 T NA INITIAL
ANALYSIS WG405458
DE-56-01D-07302012 SW6010B 2012/08/03 11:57:00 T NA INITIAL PREP
WG405428
DE-57-01A-07312012 SW6010B 2012/08/03 15:58:00 T NA INITIAL
ANALYSIS WG405472

DE-57-01A-07312012	SW6010B	2012/08/03 15:58:00	T	NA	INITIAL PREP	WG405438
DE-57-01B-07312012	SW6010B	2012/08/03 16:02:00	T	NA	INITIAL ANALYSIS	WG405472
DE-57-01B-07312012	SW6010B	2012/08/03 16:02:00	T	NA	INITIAL PREP	WG405438
DE-57-01C-07312012	SW6010B	2012/08/03 15:23:00	T	NA	INITIAL ANALYSIS	WG405472
DE-57-01C-07312012	SW6010B	2012/08/03 15:23:00	T	NA	INITIAL PREP	WG405438
DE-57-01C-07312012 MSDSD	SW6010B	2012/08/03 15:30:00	T	NA	INITIAL ANALYSIS	WG405472
DE-57-01C-07312012 MSDSD	SW6010B	2012/08/03 15:30:00	T	NA	INITIAL PREP	WG405438
DE-57-01C-07312012 MSMS	SW6010B	2012/08/03 15:27:00	T	NA	INITIAL ANALYSIS	WG405472
DE-57-01C-07312012 MSMS	SW6010B	2012/08/03 15:27:00	T	NA	INITIAL PREP	WG405438
DE-57-03D-07312012	SW6010B	2012/08/03 15:34:00	T	NA	INITIAL ANALYSIS	WG405472
DE-57-03D-07312012	SW6010B	2012/08/03 15:34:00	T	NA	INITIAL PREP	WG405438
DE-58-01A-07312012	SW6010B	2012/08/03 14:07:00	T	NA	INITIAL ANALYSIS	WG405469
DE-58-01A-07312012	SW6010B	2012/08/03 14:07:00	T	NA	INITIAL PREP	WG405429
DE-58-01B-07312012	SW6010B	2012/08/03 14:11:00	T	NA	INITIAL ANALYSIS	WG405469
DE-58-01B-07312012	SW6010B	2012/08/03 14:11:00	T	NA	INITIAL PREP	WG405429
DE-58-01C-07312012	SW6010B	2012/08/03 14:14:00	T	NA	INITIAL ANALYSIS	WG405469
DE-58-01C-07312012	SW6010B	2012/08/03 14:14:00	T	NA	INITIAL PREP	WG405429
DE56-01C-07302012	SW6010B	2012/08/03 11:53:00	T	NA	INITIAL ANALYSIS	WG405458
DE56-01C-07302012	SW6010B	2012/08/03 11:53:00	T	NA	INITIAL PREP	WG405428
DUP-SOIL-07312012-01	SW6010B	2012/08/03 15:37:00	T	NA	INITIAL ANALYSIS	WG405472
DUP-SOIL-07312012-01	SW6010B	2012/08/03 15:37:00	T	NA	INITIAL PREP	WG405438
DUP-SOIL-07312012-02	SW6010B	2012/08/03 16:05:00	T	NA	INITIAL ANALYSIS	WG405472
DUP-SOIL-07312012-02	SW6010B	2012/08/03 16:05:00	T	NA	INITIAL PREP	WG405438
DUP-SOIL-07312012-03	SW6010B	2012/08/03 16:09:00	T	NA	INITIAL ANALYSIS	WG405472
DUP-SOIL-07312012-03	SW6010B	2012/08/03 16:09:00	T	NA	INITIAL PREP	WG405438
DUP-SOIL-07312012-04	SW6010B	2012/08/03 16:12:00	T	NA	INITIAL ANALYSIS	WG405472
DUP-SOIL-07312012-04	SW6010B	2012/08/03 16:12:00	T	NA	INITIAL PREP	WG405438
DUP-SOIL-07312012-05	SW6010B	2012/08/03 16:16:00	T	NA	INITIAL ANALYSIS	WG405472
DUP-SOIL-07312012-05	SW6010B	2012/08/03 16:16:00	T	NA	INITIAL PREP	WG405438
DUP-SOIL-08022012-06	SW6010B	2012/08/07 19:24:00	T	NA	INITIAL ANALYSIS	WG405710
DUP-SOIL-08022012-06	SW6010B	2012/08/07 19:24:00	T	NA	INITIAL PREP	WG405661
DUP-SOIL-08022012-07	SW6010B	2012/08/07 19:45:00	T	NA	INITIAL	

ANALYSIS	WG405710						
DUP-SOIL-08022012-07	SW6010B	2012/08/07	19:45:00	T	NA	INITIAL PREP	WG405661
DUP-SOIL-08022012-08	SW6010B	2012/08/08	11:49:00	T	NA	INITIAL	
ANALYSIS	WG405796						
DUP-SOIL-08022012-08	SW6010B	2012/08/08	11:49:00	T	NA	INITIAL PREP	WG405706
DUP-SOIL-08022012-09	SW6010B	2012/08/08	12:24:00	T	NA	INITIAL	
ANALYSIS	WG405796						
DUP-SOIL-08022012-09	SW6010B	2012/08/08	12:24:00	T	NA	INITIAL PREP	WG405706
DUP-SOIL-08022012-10	SW6010B	2012/08/08	20:19:00	T	NA	INITIAL	
ANALYSIS	WG405898						
DUP-SOIL-08022012-10	SW6010B	2012/08/08	20:19:00	T	NA	INITIAL PREP	WG405792
EB-SOIL-07302012-01	SW6010B	2012/08/07	16:16:00	T	NA	INITIAL	
ANALYSIS	WG405667						
EB-SOIL-07302012-01	SW6010B	2012/08/07	16:16:00	T	NA	INITIAL PREP	WG405529
EB-SOIL-07302012-02	SW6010B	2012/08/07	16:23:00	T	NA	INITIAL	
ANALYSIS	WG405667						
EB-SOIL-07302012-02	SW6010B	2012/08/07	16:23:00	T	NA	INITIAL PREP	WG405529
EB-SOIL-07302012-03	SW6010B	2012/08/07	16:30:00	T	NA	INITIAL	
ANALYSIS	WG405667						
EB-SOIL-07302012-03	SW6010B	2012/08/07	16:30:00	T	NA	INITIAL PREP	WG405529
EB-SOIL-07302012-04	SW6010B	2012/08/07	16:37:00	T	NA	INITIAL	
ANALYSIS	WG405667						
EB-SOIL-07302012-04	SW6010B	2012/08/07	16:37:00	T	NA	INITIAL PREP	WG405529
EB-SOIL-07312012	SW6010B	2012/08/07	16:43:00	T	NA	INITIAL	
ANALYSIS	WG405667						
EB-SOIL-07312012	SW6010B	2012/08/07	16:43:00	T	NA	INITIAL PREP	WG405529

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coord_sys_desc observation_date alt_x_coord alt_y_coord
alt_coord_type_code identifier horz_collect_method_code
horz_accuracy_value horz_accuracy_unit horz_datum_code
elev_collect_method_code elev_accuracy_value elev_accuracy_unit
elev_datum_code source_scale subcontractor_name_code verification_code
reference_point loc_name loc_desc loc_type loc_purpose
subfacility_code within_facility_yn loc_county_code DEC_region
loc_state_code loc_major_basin loc_minor_basin remark NYS_drainage_basin_code

CH2MHILL DE-27R -76.8518076306 42.9010920864 437.86 ft LAT LONG
748274.846 1057142.994 SP PRIMARY S1 0.01 5-feet 002
S1 0.01 5-feet 001 RMRLS
SOILBORE 16 Y 099 NY

CH2MHILL DE-38 -76.8512534290 42.9010355943 437.65 ft LAT LONG
748423.2702 1057121.9324 SP PRIMARY S1 0.01 5-feet 002
S1 0.01 5-feet 001 RMRLS
SOILBORE 16 Y 099 NY

CH2MHILL DE-39 -76.8510089914 42.9009502404 438.44 ft LAT LONG
748488.6646 1057090.617 SP PRIMARY S1 0.01 5-feet 002
S1 0.01 5-feet 001 RMRLS
SOILBORE 16 Y 099 NY

CH2MHILL DE-40 -76.8510300286 42.9008237658 438.05 ft LAT LONG
748482.8814 1057044.5415 SP PRIMARY S1 0.01 5-feet 002
S1 0.01 5-feet 001 RMRLS
SOILBORE 16 Y 099 NY

CH2MHILL DE-41 -76.8512297818 42.9008698956 437.81 ft LAT LONG
748429.4139 1057061.5237 SP PRIMARY S1 0.01 5-feet 002
S1 0.01 5-feet 001 RMRLS
SOILBORE 16 Y 099 NY

CH2MHILL DE-42 -76.8513071532 42.9007019698 437.37 ft LAT LONG
748408.4885 1057000.3895 SP PRIMARY S1 0.01 5-feet 002
S1 0.01 5-feet 001 RMRLS
SOILBORE 16 Y 099 NY

CH2MHILL DE-43 -76.8511739290 42.9006282463 438.27 ft LAT LONG
748444.0986 1056973.4075 SP PRIMARY S1 0.01 5-feet 002
S1 0.01 5-feet 001 RMRLS
SOILBORE 16 Y 099 NY

CH2MHILL DE-44 -76.8510861533 42.9006717915 438.38 ft LAT LONG
748467.6674 1056989.2026 SP PRIMARY S1 0.01 5-feet 002
S1 0.01 5-feet 001 RMRLS
SOILBORE 16 Y 099 NY

CH2MHILL DE-45 -76.8521798416 42.9006441534 436.61 ft LAT LONG
748174.5964 1056980.0641 SP PRIMARY S1 0.01 5-feet 002
S1 0.01 5-feet 001 RMRLS
SOILBORE 16 Y 099 NY

CH2MHILL DE-46 -76.8519596189 42.9006031654 436.46 ft LAT LONG
748233.5544 1056964.9377 SP PRIMARY S1 0.01 5-feet 002
S1 0.01 5-feet 001 RMRLS
SOILBORE 16 Y 099 NY

CH2MHILL DE-47 -76.8518298020 42.9005651421 436.03 ft LAT LONG
748268.2929 1056950.9692 SP PRIMARY S1 0.01 5-feet 002
S1 0.01 5-feet 001 RMRLS
SOILBORE 16 Y 099 NY

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CH2MHILL        DE-48   -76.8515954681  42.9004953478   436.86  ft      LAT LONG
        748330.9985     1056925.3326    SP      PRIMARY S1      0.01    5-feet  002
S1      0.01    5-feet  001             RMRLS
SOILBORE                16      Y       099             NY

CH2MHILL        DE-49   -76.8514457279  42.9004805683   437.31  ft      LAT LONG
        748371.1023     1056919.8184    SP      PRIMARY S1      0.01    5-feet  002
S1      0.01    5-feet  001             RMRLS
SOILBORE                16      Y       099             NY

CH2MHILL        DE-50   -76.8512733851  42.9004772661   438.02  ft      LAT LONG
        748417.2755     1056918.4679    SP      PRIMARY S1      0.01    5-feet  002
S1      0.01    5-feet  001             RMRLS
SOILBORE                16      Y       099             NY

CH2MHILL        DE-51   -76.8511479465  42.9004772200   438.15  ft      LAT LONG
        748450.8851     1056918.3441    SP      PRIMARY S1      0.01    5-feet  002
S1      0.01    5-feet  001             RMRLS
SOILBORE                16      Y       099             NY

CH2MHILL        DE-52   -76.8502665495  42.9005111140   440.67  ft      LAT LONG
        748687.0833     1056929.9465    SP      PRIMARY S1      0.01    5-feet  002
S1      0.01    5-feet  001             RMRLS
SOILBORE                16      Y       099             NY

CH2MHILL        DE-53   -76.8502439626  42.9006112580   431.23  ft      LAT LONG
        748693.2509     1056966.4246    SP      PRIMARY S1      0.01    5-feet  002
S1      0.01    5-feet  001             RMRLS
SOILBORE                16      Y       099             NY

CH2MHILL        DE-54   -76.8504550736  42.9006006797   431.19  ft      LAT LONG
        748636.6743     1056962.7488    SP      PRIMARY S1      0.01    5-feet  002
S1      0.01    5-feet  001             RMRLS
SOILBORE                16      Y       099             NY

CH2MHILL        DE-55   -76.8503862060  42.9007651843   431.66  ft      LAT LONG
        748655.3167     1057022.6436    SP      PRIMARY S1      0.01    5-feet  002
S1      0.01    5-feet  001             RMRLS
SOILBORE                16      Y       099             NY

CH2MHILL        DE-56   -76.8502170360  42.9007369728   431.66  ft      LAT LONG
        748700.6108     1057012.2182    SP      PRIMARY S1      0.01    5-feet  002
S1      0.01    5-feet  001             RMRLS
SOILBORE                16      Y       099             NY

CH2MHILL        DE-57   -76.8524979429  42.9007212297   437.77  ft      LAT LONG
        748089.4553     1057008.4268    SP      PRIMARY S1      0.01    5-feet  002
S1      0.01    5-feet  001             RMRLS
SOILBORE                16      Y       099             NY

CH2MHILL        DE-58   -76.8524857640  42.9007524837   438.85  ft      LAT LONG
        748092.7549     1057019.8068    SP      PRIMARY S1      0.01    5-feet  002
S1      0.01    5-feet  001             RMRLS
SOILBORE                16      Y       099             NY
```

#data_provider sys_sample_code sample_name sample_matrix_code sample_type_code
sample_source parent_sample_code sample_delivery_group sample_date sys_loc_code start_depth
end_depth depth_unit chain_of_custody sent_to_lab_date sample_receipt_date
sampler sampling_company_code sampling_reason sampling_technique task_code collection_quarter
composite_yn composite_desc sample_class custom_field_1 custom_field_2 custom_field_3 comment

CH2MHILL 05428-02BLANKL12080096 05428-02BLANKL12080096 SQ LB LAB L12080096
2012/08/03 00:00:00 0 0 ft 2012/08/03 00:00:00
MICROBAC GorhamStr_July_2012 3Q12 N

CH2MHILL 05428-03LCSL12080096 05428-03LCSL12080096 SQ BS LAB L12080096
2012/08/03 00:00:00 0 0 ft 2012/08/03 00:00:00
MICROBAC GorhamStr_July_2012 3Q12 N

CH2MHILL 05429-02BLANKL12080096 05429-02BLANKL12080096 SQ LB LAB L12080096
2012/08/03 00:00:00 0 0 ft 2012/08/03 00:00:00
MICROBAC GorhamStr_July_2012 3Q12 N

CH2MHILL 05429-03LCSL12080096 05429-03LCSL12080096 SQ BS LAB L12080096
2012/08/03 00:00:00 0 0 ft 2012/08/03 00:00:00
MICROBAC GorhamStr_July_2012 3Q12 N

CH2MHILL 05438-02BLANKL12080096 05438-02BLANKL12080096 SQ LB LAB L12080096
2012/08/03 00:00:00 0 0 ft 2012/08/03 00:00:00
MICROBAC GorhamStr_July_2012 3Q12 N

CH2MHILL 05438-03LCSL12080096 05438-03LCSL12080096 SQ BS LAB L12080096
2012/08/03 00:00:00 0 0 ft 2012/08/03 00:00:00
MICROBAC GorhamStr_July_2012 3Q12 N

CH2MHILL 05529-02BLANKL12080096 05529-02BLANKL12080096 WQ LB LAB L12080096
2012/08/06 00:00:00 0 0 ft 2012/08/06 00:00:00
MICROBAC GorhamStr_July_2012 3Q12 N

CH2MHILL 05529-03LCSL12080096 05529-03LCSL12080096 WQ BS LAB L12080096
2012/08/06 00:00:00 0 0 ft 2012/08/06 00:00:00
MICROBAC GorhamStr_July_2012 3Q12 N

CH2MHILL 05647-03BLANKL12080188 05647-03BLANKL12080188 SQ LB LAB L12080188
2012/08/07 00:00:00 0 0 ft 2012/08/07 00:00:00
MICROBAC GorhamStr_July_2012 3Q12 N

CH2MHILL 05647-04LCSL12080188 05647-04LCSL12080188 SQ BS LAB L12080188
2012/08/07 00:00:00 0 0 ft 2012/08/07 00:00:00
MICROBAC GorhamStr_July_2012 3Q12 N

CH2MHILL 05661-02BLANKL12080188 05661-02BLANKL12080188 SQ LB LAB L12080188
2012/08/07 00:00:00 0 0 ft 2012/08/07 00:00:00
MICROBAC GorhamStr_July_2012 3Q12 N

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CH2MHILL        05661-03LCSL12080188    05661-03LCSL12080188    SQ      BS      LAB             L12080188
2012/08/07 00:00:00             0       0       ft                      2012/08/07 00:00:00
MICROBAC                        GorhamStr_July_2012     3Q12    N

CH2MHILL        05706-02BLANKL12080188  05706-02BLANKL12080188  SQ      LB      LAB             L12080188
2012/08/07 00:00:00             0       0       ft                      2012/08/07 00:00:00
MICROBAC                        GorhamStr_July_2012     3Q12    N

CH2MHILL        05706-03LCSL12080188    05706-03LCSL12080188    SQ      BS      LAB             L12080188
2012/08/07 00:00:00             0       0       ft                      2012/08/07 00:00:00
MICROBAC                        GorhamStr_July_2012     3Q12    N

CH2MHILL        05792-02BLANKL12080188  05792-02BLANKL12080188  SQ      LB      LAB             L12080188
2012/08/08 00:00:00             0       0       ft                      2012/08/08 00:00:00
MICROBAC                        GorhamStr_July_2012     3Q12    N

CH2MHILL        05792-03LCSL12080188    05792-03LCSL12080188    SQ      BS      LAB             L12080188
2012/08/08 00:00:00             0       0       ft                      2012/08/08 00:00:00
MICROBAC                        GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-27R-01C-08022012     DE-27R-01C-08022012     SO      N       FIELD           L12080188
2012/08/02 10:55:00     DE-27R  6       12      in      31153           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-38-01A-08022012      DE-38-01A-08022012      SO      N       FIELD           L12080188
2012/08/02 10:20:00     DE-38   0       2       in      31153           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-38-01B-08022012      DE-38-01B-08022012      SO      N       FIELD           L12080188
2012/08/02 10:22:00     DE-38   2       6       in      31153           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-38-01C-08022012      DE-38-01C-08022012      SO      N       FIELD           L12080188
2012/08/02 10:25:00     DE-38   6       12      in      31153           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-38-01D-08022012      DE-38-01D-08022012      SO      N       FIELD           L12080188
2012/08/02 10:27:00     DE-38   12      24      in      31153           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-38-01E-08022012      DE-38-01E-08022012      SO      N       FIELD           L12080188
2012/08/02 10:30:00     DE-38   24      36      in      31153           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-38-01E-08022012MSDSD DE-38-01E-08022012      SO      SD      LAB     DE-38-01E-08022012
L12080188       2012/08/02 10:30:00     DE-38   24      36      in      31153           2012/08/04 00:00:00
        CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N
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CH2MHILL        DE-38-01E-08022012MSMS  DE-38-01E-08022012      SO      MS      LAB     DE-38-01E-08022012
L12080188       2012/08/02 10:30:00     DE-38   24      36      in      31153           2012/08/04 00:00:00
        CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-38-01F-08022012      DE-38-01F-08022012      SO      N       FIELD           L12080188
2012/08/02 10:35:00     DE-38   36      48      in      31153           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-38-01G-08022012      DE-38-01G-08022012      SO      N       FIELD           L12080188
2012/08/02 10:37:00     DE-38   48      60      in      31153           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-39-01A-08022012      DE-39-01A-08022012      SO      N       FIELD           L12080188
2012/08/02 11:05:00     DE-39   0       2       in      31153           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-39-01B-08022012      DE-39-01B-08022012      SO      N       FIELD           L12080188
2012/08/02 11:07:00     DE-39   2       6       in      31153           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-39-01C-08022012      DE-39-01C-08022012      SO      N       FIELD           L12080188
2012/08/02 11:08:00     DE-39   6       12      in      31153           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-39-01D-08022012      DE-39-01D-08022012      SO      N       FIELD           L12080188
2012/08/02 11:09:00     DE-39   12      24      in      31153           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-39-01E-08022012      DE-39-01E-08022012      SO      N       FIELD           L12080188
2012/08/02 11:10:00     DE-39   24      36      in      31153           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-39-01F-08022012      DE-39-01F-08022012      SO      N       FIELD           L12080188
2012/08/02 11:12:00     DE-39   36      48      in      31153           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-39-01F-08022012MSDSD DE-39-01F-08022012      SO      SD      LAB     DE-39-01F-08022012
L12080188       2012/08/02 11:12:00     DE-39   36      48      in      31153           2012/08/04 00:00:00
        CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-39-01F-08022012MSMS  DE-39-01F-08022012      SO      MS      LAB     DE-39-01F-08022012
L12080188       2012/08/02 11:12:00     DE-39   36      48      in      31153           2012/08/04 00:00:00
        CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-39-01G-08022012      DE-39-01G-08022012      SO      N       FIELD           L12080188
2012/08/02 11:15:00     DE-39   48      60      in      31153           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N
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CH2MHILL        DE-40-01A-08022012      DE-40-01A-08022012      SO      N       FIELD           L12080188
2012/08/02 11:35:00     DE-40   0       2       in      31153           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-40-01B-08022012      DE-40-01B-08022012      SO      N       FIELD           L12080188
2012/08/02 11:37:00     DE-40   2       6       in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-40-01C-08022012      DE-40-01C-08022012      SO      N       FIELD           L12080188
2012/08/02 11:40:00     DE-40   6       12      in                                      CH2MHILL
Delineation     DP      GorhamStr_July_2012     3Q12    N
CH2MHILL        DE-40-01D-08022012      DE-40-01D-08022012      SO      N       FIELD           L12080188
2012/08/02 11:41:00     DE-40   12      24      in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-40-01E-08022012      DE-40-01E-08022012      SO      N       FIELD           L12080188
2012/08/02 11:42:00     DE-40   24      36      in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-40-01F-08022012      DE-40-01F-08022012      SO      N       FIELD           L12080188
2012/08/02 11:44:00     DE-40   36      48      in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-40-01G-08022012      DE-40-01G-08022012      SO      N       FIELD           L12080188
2012/08/02 11:45:00     DE-40   48      60      in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-41-01A-08022012      DE-41-01A-08022012      SO      N       FIELD           L12080188
2012/08/02 11:50:00     DE-41   0       2       in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-41-01B-08022012      DE-41-01B-08022012      SO      N       FIELD           L12080188
2012/08/02 11:52:00     DE-41   2       6       in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-41-01C-08022012      DE-41-01C-08022012      SO      N       FIELD           L12080188
2012/08/02 11:55:00     DE-41   6       12      in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-41-01D-08022012      DE-41-01D-08022012      SO      N       FIELD           L12080188
2012/08/02 11:57:00     DE-41   12      24      in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-41-01E-08022012      DE-41-01E-08022012      SO      N       FIELD           L12080188
2012/08/02 12:00:00     DE-41   24      36      in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N
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CH2MHILL        DE-41-01F-08022012      DE-41-01F-08022012      SO      N       FIELD           L12080188
2012/08/02 12:02:00     DE-41   36      48      in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-41-01G-08022012      DE-41-01G-08022012      SO      N       FIELD           L12080188
2012/08/02 12:05:00     DE-41   48      60      in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-42-01A-08022012      DE-42-01A-08022012      SO      N       FIELD           L12080188
2012/08/02 10:05:00     DE-42   0       2       in      31155           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-42-01B-08022012      DE-42-01B-08022012      SO      N       FIELD           L12080188
2012/08/02 10:07:00     DE-42   2       6       in      31155           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-42-01C-08022012      DE-42-01C-08022012      SO      N       FIELD           L12080188
2012/08/02 10:10:00     DE-42   6       12      in      31155           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-42-01D-08022012      DE-42-01D-08022012      SO      N       FIELD           L12080188
2012/08/02 10:12:00     DE-42   12      24      in      31155           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-42-01E-08022012      DE-42-01E-08022012      SO      N       FIELD           L12080188
2012/08/02 10:13:00     DE-42   24      36      in      31155           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-42-01F-08022012      DE-42-01F-08022012      SO      N       FIELD           L12080188
2012/08/02 10:15:00     DE-42   36      48      in      31155           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-42-01G-08022012      DE-42-01G-08022012      SO      N       FIELD           L12080188
2012/08/02 10:17:00     DE-42   48      60      in      31155           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-43-01A-08022012      DE-43-01A-08022012      SO      N       FIELD           L12080188
2012/08/02 13:40:00     DE-43   0       2       in      31150           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-43-01B-08022012      DE-43-01B-08022012      SO      N       FIELD           L12080188
2012/08/02 13:42:00     DE-43   2       6       in      31150           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-43-01C-08022012      DE-43-01C-08022012      SO      N       FIELD           L12080188
2012/08/02 13:45:00     DE-43   6       12      in      31150           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N
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CH2MHILL        DE-43-01D-08022012      DE-43-01D-08022012      SO      N       FIELD           L12080188
2012/08/02 13:47:00     DE-43   12      24      in      31150           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-43-01E-08022012      DE-43-01E-08022012      SO      N       FIELD           L12080188
2012/08/02 13:50:00     DE-43   24      36      in      31150           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-43-01F-08022012      DE-43-01F-08022012      SO      N       FIELD           L12080188
2012/08/02 13:52:00     DE-43   36      48      in      31150           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-43-01G-08022012      DE-43-01G-08022012      SO      N       FIELD           L12080188
2012/08/02 13:55:00     DE-43   48      60      in      31150           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-44-01A-08022012      DE-44-01A-08022012      SO      N       FIELD           L12080188
2012/08/02 13:15:00     DE-44   0       2       in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-44-01B-08022012      DE-44-01B-08022012      SO      N       FIELD           L12080188
2012/08/02 13:17:00     DE-44   2       6       in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-44-01C-08022012      DE-44-01C-08022012      SO      N       FIELD           L12080188
2012/08/02 13:20:00     DE-44   6       12      in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-44-01D-08022012      DE-44-01D-08022012      SO      N       FIELD           L12080188
2012/08/02 13:22:00     DE-44   12      24      in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-44-01E-08022012      DE-44-01E-08022012      SO      N       FIELD           L12080188
2012/08/02 13:25:00     DE-44   24      36      in      31151           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-44-01F-08022012      DE-44-01F-08022012      SO      N       FIELD           L12080188
2012/08/02 13:28:00     DE-44   36      48      in      31150           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-44-01G-08022012      DE-44-01G-08022012      SO      N       FIELD           L12080188
2012/08/02 13:30:00     DE-44   48      60      in      31150           2012/08/04 00:00:00
CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-45-01A-07312012      DE-45-01A-07312012      SO      N       FIELD           L12080096
2012/07/31 13:42:00     DE-45   0       2       in      25086           2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N
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CH2MHILL        DE-45-01B-07312012      DE-45-01B-07312012      SO      N       FIELD           L12080096
2012/07/31 13:50:00     DE-45   2       6       in      25086           2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-45-02C-07312012      DE-45-02C-07312012      SO      N       FIELD           L12080096
2012/07/31 13:55:00     DE-45   6       12      in      25086           2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-45-02C-07312012MS    DE-45-02C-07312012      SQ      MS      LAB     DE-45-02C-07312012
L12080096       2012/08/03 00:00:00     DE-45   6       12      in                      2012/08/03 00:00:00
        CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-45-02C-07312012SD    DE-45-02C-07312012      SQ      SD      LAB     DE-45-02C-07312012
L12080096       2012/08/03 00:00:00     DE-45   6       12      in                      2012/08/03 00:00:00
        CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-46-01A-08012012      DE-46-01A-08012012      SO      N       FIELD           L12080188
2012/08/01 13:50:00     DE-46   0       2       in      31155           2012/08/04 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-46-01A-08012012MSDSD DE-46-01A-08012012      SO      SD      LAB     DE-46-01A-08012012
L12080188       2012/08/01 13:50:00     DE-46   0       2       in      31155           2012/08/04 00:00:00
        CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-46-01A-08012012MSMS  DE-46-01A-08012012      SO      MS      LAB     DE-46-01A-08012012
L12080188       2012/08/01 13:50:00     DE-46   0       2       in      31155           2012/08/04 00:00:00
        CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-46-01B-08012012      DE-46-01B-08012012      SO      N       FIELD           L12080188
2012/08/01 14:00:00     DE-46   2       6       in      31155           2012/08/04 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-46-01B-08012012MSDSD DE-46-01B-08012012      SO      SD      LAB     DE-46-01B-08012012
L12080188       2012/08/01 14:00:00     DE-46   2       6       in      31155           2012/08/04 00:00:00
        CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-46-01B-08012012MSMS  DE-46-01B-08012012      SO      MS      LAB     DE-46-01B-08012012
L12080188       2012/08/01 14:00:00     DE-46   2       6       in      31155           2012/08/04 00:00:00
        CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-46-01C-08012012      DE-46-01C-08012012      SO      N       FIELD           L12080188
2012/08/01 14:05:00     DE-46   6       12      in      31155           2012/08/04 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-46-01D-08012012      DE-46-01D-08012012      SO      N       FIELD           L12080188
2012/08/01 14:10:00     DE-46   12      24      in      31155           2012/08/04 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N
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CH2MHILL        DE-46-01E-08012012      DE-46-01E-08012012      SO      N       FIELD           L12080188
2012/08/01 14:15:00     DE-46   24      36      in      31155           2012/08/04 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-46-01F-08012012      DE-46-01F-08012012      SO      N       FIELD           L12080188
2012/08/01 14:20:00     DE-46   36      48      in      31155           2012/08/04 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-46-01G-08012012      DE-46-01G-08012012      SO      N       FIELD           L12080188
2012/08/01 14:25:00     DE-46   48      60      in      31155           2012/08/04 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-47-01A-07312012      DE-47-01A-07312012      SO      N       FIELD           L12080096
2012/07/31 11:25:00     DE-47   0       2       in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-47-01B-07312012      DE-47-01B-07312012      SO      N       FIELD           L12080096
2012/07/31 11:30:00     DE-47   2       6       in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-47-01C-07312012      DE-47-01C-07312012      SO      N       FIELD           L12080096
2012/07/31 11:35:00     DE-47   6       12      in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-47-01D-07312012      DE-47-01D-07312012      SO      N       FIELD           L12080096
2012/07/31 11:40:00     DE-47   12      24      in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-48-01A-07312012      DE-48-01A-07312012      SO      N       FIELD           L12080096
2012/07/31 10:25:00     DE-48   0       2       in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-48-01B-07312012      DE-48-01B-07312012      SO      N       FIELD           L12080096
2012/07/31 10:27:00     DE-48   2       6       in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-48-01C-07312012      DE-48-01C-07312012      SO      N       FIELD           L12080096
2012/07/31 10:30:00     DE-48   6       12      in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-48-01D-07312012      DE-48-01D-07312012      SO      N       FIELD           L12080096
2012/07/31 10:35:00     DE-48   12      24      in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-49-01A-07302012      DE-49-01A-07302012      SO      N       FIELD           L12080096
2012/07/30 15:30:00     DE-49   0       2       in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N
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CH2MHILL        DE-49-01B-07302012      DE-49-01B-07302012      SO      N       FIELD           L12080096
2012/07/30 15:32:00     DE-49   2       6       in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-49-01C-07302012      DE-49-01C-07302012      SO      N       FIELD           L12080096
2012/07/30 15:35:00     DE-49   6       12      in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-49-01D-07302012      DE-49-01D-07302012      SO      N       FIELD           L12080096
2012/07/30 15:40:00     DE-49   12      24      in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-50-01A-07302012      DE-50-01A-07302012      SO      N       FIELD           L12080096
2012/07/30 15:05:00     DE-50   0       2       in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-50-01B-07302012      DE-50-01B-07302012      SO      N       FIELD           L12080096
2012/07/30 15:10:00     DE-50   2       6       in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-50-01B-07302012MS    DE-50-01B-07302012      SQ      MS      LAB     DE-50-01B-07302012
L12080096       2012/08/03 00:00:00     DE-50   2       6       in                      2012/08/03 00:00:00
        CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-50-01B-07302012SD    DE-50-01B-07302012      SQ      SD      LAB     DE-50-01B-07302012
L12080096       2012/08/03 00:00:00     DE-50   2       6       in                      2012/08/03 00:00:00
        CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-50-01C-07302012      DE-50-01C-07302012      SO      N       FIELD           L12080096
2012/07/30 15:15:00     DE-50   6       12      in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-50-01D-07302012      DE-50-01D-07302012      SO      N       FIELD           L12080096
2012/07/30 15:20:00     DE-50   12      24      in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-51-01A-07302012      DE-51-01A-07302012      SO      N       FIELD           L12080096
2012/07/30 14:45:00     DE-51   0       2       in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-51-01B-07302012      DE-51-01B-07302012      SO      N       FIELD           L12080096
2012/07/30 14:50:00     DE-51   2       6       in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-52-01A-07302012      DE-52-01A-07302012      SO      N       FIELD           L12080096
2012/07/30 14:15:00     DE-52   0       2       in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N
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CH2MHILL        DE-52-01B-07302012      DE-52-01B-07302012      SO      N       FIELD           L12080096
2012/07/30 14:20:00     DE-52   2       6       in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-53-01A-07302012      DE-53-01A-07302012      SO      N       FIELD           L12080096
2012/07/30 11:45:00     DE-53   0       2       in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-53-01B-07302012      DE-53-01B-07302012      SO      N       FIELD           L12080096
2012/07/30 11:50:00     DE-53   2       6       in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-53-01C-07302012      DE-53-01C-07302012      SO      N       FIELD           L12080096
2012/07/30 11:55:00     DE-53   6       12      in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-54-01A-07302012      DE-54-01A-07302012      SO      N       FIELD           L12080096
2012/07/30 11:20:00     DE-54   0       2       in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-54-01B-07302012      DE-54-01B-07302012      SO      N       FIELD           L12080096
2012/07/30 11:25:00     DE-54   2       6       in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-54-01C-07302012      DE-54-01C-07302012      SO      N       FIELD           L12080096
2012/07/30 11:30:00     DE-54   6       12      in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-55-01A-07302012      DE-55-01A-07302012      SO      N       FIELD           L12080096
2012/07/30 11:05:00     DE-55   0       2       in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-55-01B-07302012      DE-55-01B-07302012      SO      N       FIELD           L12080096
2012/07/30 11:07:00     DE-55   2       6       in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-55-01C-07302012      DE-55-01C-07302012      SO      N       FIELD           L12080096
2012/07/30 11:10:00     DE-55   6       12      in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-55-01D-07302012      DE-55-01D-07302012      SO      N       FIELD           L12080096
2012/07/30 11:15:00     DE-55   12      24      in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-56-01A-07302012      DE-56-01A-07302012      SO      N       FIELD           L12080096
2012/07/30 10:45:00     DE-56   0       2       in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N
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CH2MHILL        DE-56-01B-07302012      DE-56-01B-07302012      SO      N       FIELD           L12080096
2012/07/30 10:50:00     DE-56   2       6       in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-56-01D-07302012      DE-56-01D-07302012      SO      N       FIELD           L12080096
2012/07/30 11:00:00     DE-56   12      24      in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-57-01A-07312012      DE-57-01A-07312012      SO      N       FIELD           L12080096
2012/07/31 14:07:00     DE-57   0       2       in      25086           2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-57-01B-07312012      DE-57-01B-07312012      SO      N       FIELD           L12080096
2012/07/31 14:10:00     DE-57   2       6       in      25086           2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-57-01C-07312012      DE-57-01C-07312012      SO      N       FIELD           L12080096
2012/07/31 14:12:00     DE-57   6       12      in      25086           2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-57-01C-07312012 MSDSD        DE-57-01C-07312012      SO      SD      LAB
DE-57-01C-07312012      L12080096       2012/07/31 14:12:00     DE-57   6       12      in      25086
2012/08/01 00:00:00             CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-57-01C-07312012 MSMS DE-57-01C-07312012      SO      MS      LAB     DE-57-01C-07312012
L12080096       2012/07/31 14:12:00     DE-57   6       12      in      25086           2012/08/01 00:00:00
        CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-57-03D-07312012      DE-57-03D-07312012      SO      N       FIELD           L12080096
2012/07/31 14:20:00     DE-57   12      24      in      25086           2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-58-01A-07312012      DE-58-01A-07312012      SO      N       FIELD           L12080096
2012/07/31 08:20:00     DE-58   0       2       in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-58-01B-07312012      DE-58-01B-07312012      SO      N       FIELD           L12080096
2012/07/31 08:25:00     DE-58   2       6       in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE-58-01C-07312012      DE-58-01C-07312012      SO      N       FIELD           L12080096
2012/07/31 08:30:00     DE-58   6       12      in      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DE56-01C-07302012       DE56-01C-07302012       SO      N       FIELD           L12080096
2012/07/30 10:55:00     DE-56   6       12      in      A31149          2012/08/01 00:00:00
CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N
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CH2MHILL        DUP-SOIL-07312012-01    DUP-SOIL-07312012-01    SO      FD      FIELD   DE-45-01A-07312012
L12080096       2012/07/31 00:01:00     DE-45   0       2       in      25086           2012/08/01 00:00:00
        CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DUP-SOIL-07312012-02    DUP-SOIL-07312012-02    SO      FD      FIELD   DE-45-01B-07312012
L12080096       2012/07/31 00:01:00     DE-45   2       6       in      25086           2012/08/01 00:00:00
        CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DUP-SOIL-07312012-03    DUP-SOIL-07312012-03    SO      FD      FIELD   DE-45-02C-07312012
L12080096       2012/07/31 00:01:00     DE-45   6       12      in      25086           2012/08/01 00:00:00
        CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DUP-SOIL-07312012-04    DUP-SOIL-07312012-04    SO      FD      FIELD   DE-57-01A-07312012
L12080096       2012/07/31 00:01:00     DE-57   0       2       in      25086           2012/08/01 00:00:00
        CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DUP-SOIL-07312012-05    DUP-SOIL-07312012-05    SO      FD      FIELD   DE-57-01B-07312012
L12080096       2012/07/31 00:01:00     DE-57   2       6       in      25086           2012/08/01 00:00:00
        CH2MHILL        Delineation     HA      GorhamStr_July_2012     3Q12    N

CH2MHILL        DUP-SOIL-08022012-06    DUP-SOIL-08022012-06    SO      FD      FIELD   DE-42-01F-08022012
L12080188       2012/08/02 00:01:00     DE-42   36      48      in      31155           2012/08/04 00:00:00
        CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DUP-SOIL-08022012-07    DUP-SOIL-08022012-07    SO      FD      FIELD   DE-42-01G-08022012
L12080188       2012/08/02 00:01:00     DE-42   48      60      in      31155           2012/08/04 00:00:00
        CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DUP-SOIL-08022012-08    DUP-SOIL-08022012-08    SO      FD      FIELD   DE-40-01E-08022012
L12080188       2012/08/02 00:01:00     DE-40   24      36      in      31151           2012/08/04 00:00:00
        CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DUP-SOIL-08022012-09    DUP-SOIL-08022012-09    SO      FD      FIELD   DE-41-01F-08022012
L12080188       2012/08/02 00:01:00     DE-41   36      48      in      31151           2012/08/04 00:00:00
        CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        DUP-SOIL-08022012-10    DUP-SOIL-08022012-10    SO      FD      FIELD   DE-44-01E-08022012
L12080188       2012/08/02 00:01:00     DE-44   24      36      in      31150           2012/08/04 00:00:00
        CH2MHILL        Delineation     DP      GorhamStr_July_2012     3Q12    N

CH2MHILL        EB-SOIL-07302012-01     EB-SOIL-07302012-01     WQ      EB      FIELD           L12080096
2012/07/30 13:35:00             0       0       ft      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation             GorhamStr_July_2012     3Q12    N

CH2MHILL        EB-SOIL-07302012-02     EB-SOIL-07302012-02     WQ      EB      FIELD           L12080096
2012/07/30 13:40:00             0       0       ft      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation             GorhamStr_July_2012     3Q12    N
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CH2MHILL        EB-SOIL-07302012-03     EB-SOIL-07302012-03     WQ      EB      FIELD           L12080096
2012/07/30 13:45:00             0       0       ft      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation             GorhamStr_July_2012     3Q12    N

CH2MHILL        EB-SOIL-07302012-04     EB-SOIL-07302012-04     WQ      EB      FIELD           L12080096
2012/07/30 13:50:00             0       0       ft      A25085          2012/08/01 00:00:00
CH2MHILL        Delineation             GorhamStr_July_2012     3Q12    N

CH2MHILL        EB-SOIL-07312012        EB-SOIL-07312012        WQ      EB      FIELD           L12080096
2012/07/31 13:30:00             0       0       ft      25086           2012/08/01 00:00:00
CH2MHILL        Delineation             GorhamStr_July_2012     3Q12    N
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Subfacility_v1.txt

#subfacility_code subfacility_type subfacility_name
subfacility_task_code subfacility_desc1 subfacility_desc2
contact_name address1 address2 city state zipcode
phone_number alt_phone_number fax_number email_address
#Text(20) Text(20) Text(60) Text(20) Text(255)
Text(255) Text(50) Text(40) Text(40) Text(30)
Text(2) Text(10) Text(30) Text(30) Text(30)
Text(100)
16 AOC Gorham Street Gorham Street Brian Carling
1717 Arch Street Suite 4400 Philadelphia PA 19103
215-640-9011 Brian.Carling@CH2M.com

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#sys_sample_code        lab_anl_method_name     analysis_date
total_or_dissolved      column_number   test_type       lab_matrix_code
analysis_location       basis   container_id    dilution_factor prep_method
prep_date       leachate_method leachate_date   lab_name_code   qc_level
lab_sample_id   percent_moisture        subsample_amount
subsample_amount_unit   analyst_name    instrument_id   comment preservative
final_volume    final_volume_unit       cas_rn  chemical_name   result_value
result_error_delta      result_type_code        reportable_result
detect_flag     lab_qualifiers  validator_qualifiers    interpreted_qualifiers
validated_yn    organic_yn      method_detection_limit
reporting_detection_limit       quantitation_limit      result_unit
detection_limit_unit    tic_retention_time      minimum_detectable_conc
counting_error  uncertainty     critical_value  validation_level
result_comment  qc_original_conc        qc_spike_added  qc_spike_measured
qc_spike_recovery       qc_dup_original_conc    qc_dup_spike_added
qc_dup_spike_measured   qc_dup_spike_recovery   qc_rpd  qc_spike_lcl
qc_spike_ucl    qc_rpd_cl       qc_spike_status qc_dup_spike_status
qc_rpd_status
05428-02BLANKL12080096  SW6010B 2012/08/03 11:30:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:40:00
NONE            MICROBAC        QUANT   WG405428-02L12080096    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC                 TRG     Yes     N       U       U       U       Y
N       2.50    2.5     5.00    mg/kg   mg/kg
        DUSR

05428-02BLANKL12080096  SW6010B 2012/08/03 11:30:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:40:00
NONE            MICROBAC        QUANT   WG405428-02L12080096    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.250   0.25    0.500   mg/kg   mg/kg
        DUSR

05428-03LCSL12080096    SW6010B 2012/08/03 11:33:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:22:00
NONE            MICROBAC        QUANT   WG405428-03L12080096    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 9.05            SC      Yes     Y       =                       Y
N       2.50    5.00    5.00    mg/kg   mg/kg
        DUSR                    10      9.05    90.5
                80      120     20
05428-03LCSL12080096    SW6010B 2012/08/03 11:33:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:22:00
NONE            MICROBAC        QUANT   WG405428-03L12080096    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.17            SC      Yes     Y       =                       Y
N       0.250   0.500   0.500   mg/kg   mg/kg
        DUSR                    1.25    1.17    93.2
                80      120     20
05429-02BLANKL12080096  SW6010B 2012/08/03 13:23:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:06:00
NONE            MICROBAC        QUANT   WG405429-02L12080096    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC                 TRG     Yes     N       U       U       U       Y
N       2.50    2.5     5.00    mg/kg   mg/kg
        DUSR

05429-02BLANKL12080096  SW6010B 2012/08/03 13:23:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:06:00
NONE            MICROBAC        QUANT   WG405429-02L12080096    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.250   0.25    0.500   mg/kg   mg/kg
        DUSR
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05429-03LCSL12080096    SW6010B 2012/08/03 13:27:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:51:00
NONE            MICROBAC        QUANT   WG405429-03L12080096    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 9.54            SC      Yes     Y       =                       Y
N       2.50    5.00    5.00    mg/kg   mg/kg
        DUSR                    10      9.54    95.4
                80      120     20
05429-03LCSL12080096    SW6010B 2012/08/03 13:27:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:51:00
NONE            MICROBAC        QUANT   WG405429-03L12080096    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.24            SC      Yes     Y       =                       Y
N       0.250   0.500   0.500   mg/kg   mg/kg
        DUSR                    1.25    1.24    99.3
                80      120     20
05438-02BLANKL12080096  SW6010B 2012/08/03 15:16:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   WG405438-02L12080096    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC                 TRG     Yes     N       U       U       U       Y
N       2.50    2.5     5.00    mg/kg   mg/kg
        DUSR

05438-02BLANKL12080096  SW6010B 2012/08/03 15:16:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   WG405438-02L12080096    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.250   0.25    0.500   mg/kg   mg/kg
        DUSR

05438-03LCSL12080096    SW6010B 2012/08/03 15:20:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:15:00
NONE            MICROBAC        QUANT   WG405438-03L12080096    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 8.97            SC      Yes     Y       =                       Y
N       2.50    5.00    5.00    mg/kg   mg/kg
        DUSR                    10      8.97    89.7
                80      120     20
05438-03LCSL12080096    SW6010B 2012/08/03 15:20:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:15:00
NONE            MICROBAC        QUANT   WG405438-03L12080096    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.17            SC      Yes     Y       =                       Y
N       0.250   0.500   0.500   mg/kg   mg/kg
        DUSR                    1.25    1.17    93.8
                80      120     20
05529-02BLANKL12080096  SW6010B 2012/08/07 14:47:00     T       NA
INITIAL WA      LB      WET             1       SW3005A 2012/08/06 07:14:00
NONE            MICROBAC        QUANT   WG405529-02L12080096    0.0     50
ml      KHR     PE-ICP2         NONE    50.0    ml      7440-38-2
ARSENIC                 TRG     Yes     N       U       U       U       Y
N       0.0500  0.05    0.100   mg/l    mg/l
        DUSR

05529-02BLANKL12080096  SW6010B 2012/08/07 14:47:00     T       NA
INITIAL WA      LB      WET             1       SW3005A 2012/08/06 07:14:00
NONE            MICROBAC        QUANT   WG405529-02L12080096    0.0     50
ml      KHR     PE-ICP2         NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.00500 0.005   0.0100  mg/l    mg/l
        DUSR

05529-02BLANKL12080096  SW6010B 2012/08/08 13:35:00     T       NA
REEXTRACT       WA      LB      WET             1       SW3005A 2012/08/06
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07:14:00        NONE            MICROBAC        QUANT   WG405529-02L12080096
0.0     50      ml      KHR     PE-ICP2         NONE    50.0    ml
7440-38-2       ARSENIC                 TRG     No      N       U       U
U       Y       N       0.0500  0.05    0.100   mg/l    mg/l
                        DUSR

05529-02BLANKL12080096  SW6010B 2012/08/08 13:35:00     T       NA
REEXTRACT       WA      LB      WET             1       SW3005A 2012/08/06
07:14:00        NONE            MICROBAC        QUANT   WG405529-02L12080096
0.0     50      ml      KHR     PE-ICP2         NONE    50.0    ml
7440-43-9       CADMIUM                 TRG     No      N       U       U
U       Y       N       0.00500 0.005   0.0100  mg/l    mg/l
                        DUSR

05529-03LCSL12080096    SW6010B 2012/08/07 14:54:00     T       NA
INITIAL WA      LB      WET             1       SW3005A 2012/08/06 07:14:00
NONE            MICROBAC        QUANT   WG405529-03L12080096    0.0     50
ml      KHR     PE-ICP2         NONE    50.0    ml      7440-38-2
ARSENIC 0.192           SC      Yes     Y       =                       Y
N       0.0500  0.100   0.100   mg/l    mg/l
        DUSR                    .2      0.192   96.2
                85      115     20
05529-03LCSL12080096    SW6010B 2012/08/07 14:54:00     T       NA
INITIAL WA      LB      WET             1       SW3005A 2012/08/06 07:14:00
NONE            MICROBAC        QUANT   WG405529-03L12080096    0.0     50
ml      KHR     PE-ICP2         NONE    50.0    ml      7440-43-9
CADMIUM 0.0235          SC      Yes     Y       =                       Y
N       0.00500 0.0100  0.0100  mg/l    mg/l
        DUSR                    .025    0.0235  94.1
                85      115     20
05529-03LCSL12080096    SW6010B 2012/08/08 13:41:00     T       NA
REEXTRACT       WA      LB      WET             1       SW3005A 2012/08/06
07:14:00        NONE            MICROBAC        QUANT   WG405529-03L12080096
0.0     50      ml      KHR     PE-ICP2         NONE    50.0    ml
7440-38-2       ARSENIC 0.181           SC      No      Y       =
        Y       N       0.0500  0.100   0.100   mg/l    mg/l
                        DUSR                    .2      0.181   90.5
                                85      115     20
05529-03LCSL12080096    SW6010B 2012/08/08 13:41:00     T       NA
REEXTRACT       WA      LB      WET             1       SW3005A 2012/08/06
07:14:00        NONE            MICROBAC        QUANT   WG405529-03L12080096
0.0     50      ml      KHR     PE-ICP2         NONE    50.0    ml
7440-43-9       CADMIUM 0.0224          SC      No      Y       =
        Y       N       0.00500 0.0100  0.0100  mg/l    mg/l
                        DUSR                    .025    0.0224  89.5
                                85      115     20
05647-03BLANKL12080188  SW6010B 2012/08/08 10:54:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   WG405647-03L12080188    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC                 TRG     Yes     N       U       U       U       Y
N       2.50    2.5     5.00    mg/kg   mg/kg
        DUSR

05647-03BLANKL12080188  SW6010B 2012/08/08 10:54:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   WG405647-03L12080188    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.250   0.25    0.500   mg/kg   mg/kg
        DUSR

05647-04LCSL12080188    SW6010B 2012/08/08 10:58:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   WG405647-04L12080188    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
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ARSENIC 9.27            SC      Yes     Y       =                       Y
N       2.50    5.00    5.00    mg/kg   mg/kg
        DUSR                    10      9.27    92.7
                80      120     20
05647-04LCSL12080188    SW6010B 2012/08/08 10:58:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   WG405647-04L12080188    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.17            SC      Yes     Y       =                       Y
N       0.250   0.500   0.500   mg/kg   mg/kg
        DUSR                    1.25    1.17    94.0
                80      120     20
05661-02BLANKL12080188  SW6010B 2012/08/07 19:03:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   WG405661-02L12080188    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC                 TRG     Yes     N       U       U       U       Y
N       2.50    2.5     5.00    mg/kg   mg/kg
        DUSR

05661-02BLANKL12080188  SW6010B 2012/08/07 19:03:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   WG405661-02L12080188    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.250   0.25    0.500   mg/kg   mg/kg
        DUSR

05661-03LCSL12080188    SW6010B 2012/08/07 19:07:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   WG405661-03L12080188    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 9.62            SC      Yes     Y       =                       Y
N       2.50    5.00    5.00    mg/kg   mg/kg
        DUSR                    10      9.62    96.2
                80      120     20
05661-03LCSL12080188    SW6010B 2012/08/07 19:07:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   WG405661-03L12080188    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.26            SC      Yes     Y       =                       Y
N       0.250   0.500   0.500   mg/kg   mg/kg
        DUSR                    1.25    1.26    101
                80      120     20
05706-02BLANKL12080188  SW6010B 2012/08/08 09:29:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   WG405706-02L12080188    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC                 TRG     Yes     N       U       U       U       Y
N       2.50    2.5     5.00    mg/kg   mg/kg
        DUSR

05706-02BLANKL12080188  SW6010B 2012/08/08 09:29:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   WG405706-02L12080188    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.250   0.25    0.500   mg/kg   mg/kg
        DUSR

05706-03LCSL12080188    SW6010B 2012/08/08 09:32:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:49:00
NONE            MICROBAC        QUANT   WG405706-03L12080188    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 9.32            SC      Yes     Y       =                       Y
N       2.50    5.00    5.00    mg/kg   mg/kg
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        DUSR                    10      9.32    93.2
                80      120     20
05706-03LCSL12080188    SW6010B 2012/08/08 09:32:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:49:00
NONE            MICROBAC        QUANT   WG405706-03L12080188    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.21            SC      Yes     Y       =                       Y
N       0.250   0.500   0.500   mg/kg   mg/kg
        DUSR                    1.25    1.21    96.5
                80      120     20
05792-02BLANKL12080188  SW6010B 2012/08/08 19:12:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   WG405792-02L12080188    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC                 TRG     Yes     N       U       U       U       Y
N       2.50    2.5     5.00    mg/kg   mg/kg
        DUSR

05792-02BLANKL12080188  SW6010B 2012/08/08 19:12:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   WG405792-02L12080188    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.250   0.25    0.500   mg/kg   mg/kg
        DUSR

05792-02BLANKL12080188  SW6010B 2012/08/09 17:13:00     T       NA
REEXTRACT       SO      LB      DRY             1       SW3051A 2012/08/08
08:03:00        NONE            MICROBAC        QUANT   WG405792-02L12080188
0.0     1       g       PDM     ICP-THERMO1             NONE    50.0    ml
7440-38-2       ARSENIC                 TRG     No      N       U       U
U       Y       N       2.50    2.5     5.00    mg/kg   mg/kg
                        DUSR

05792-02BLANKL12080188  SW6010B 2012/08/09 17:13:00     T       NA
REEXTRACT       SO      LB      DRY             1       SW3051A 2012/08/08
08:03:00        NONE            MICROBAC        QUANT   WG405792-02L12080188
0.0     1       g       PDM     ICP-THERMO1             NONE    50.0    ml
7440-43-9       CADMIUM                 TRG     No      N       U       U
U       Y       N       0.250   0.25    0.500   mg/kg   mg/kg
                        DUSR

05792-03LCSL12080188    SW6010B 2012/08/08 19:16:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   WG405792-03L12080188    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 9.11            SC      Yes     Y       =                       Y
N       2.50    5.00    5.00    mg/kg   mg/kg
        DUSR                    10      9.11    91.1
                80      120     20
05792-03LCSL12080188    SW6010B 2012/08/08 19:16:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   WG405792-03L12080188    0.0     1
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.18            SC      Yes     Y       =                       Y
N       0.250   0.500   0.500   mg/kg   mg/kg
        DUSR                    1.25    1.18    94.2
                80      120     20
05792-03LCSL12080188    SW6010B 2012/08/09 17:16:00     T       NA
REEXTRACT       SO      LB      DRY             1       SW3051A 2012/08/08
08:03:00        NONE            MICROBAC        QUANT   WG405792-03L12080188
0.0     1       g       PDM     ICP-THERMO1             NONE    50.0    ml
7440-38-2       ARSENIC 8.88            SC      No      Y       =
        Y       N       2.50    5.00    5.00    mg/kg   mg/kg
                        DUSR                    10      8.88    88.8
                                80      120     20
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05792-03LCSL12080188    SW6010B 2012/08/09 17:16:00     T       NA
REEXTRACT       SO      LB      DRY             1       SW3051A 2012/08/08
08:03:00        NONE            MICROBAC        QUANT   WG405792-03L12080188
0.0     1       g       PDM     ICP-THERMO1             NONE    50.0    ml
7440-43-9       CADMIUM 1.15            SC      No      Y       =
        Y       N       0.250   0.500   0.500   mg/kg   mg/kg
                        DUSR                    1.25    1.15    92.2
                                80      120     20
DE-27R-01C-08022012     SW6010B 2012/08/07 20:10:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-30    10.1    1.37    g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 29.2            TRG     Yes     Y       =                       Y
N       2.03    4.06    4.06    mg/kg   mg/kg
        DUSR

DE-27R-01C-08022012     SW6010B 2012/08/07 20:10:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-30    10.1    1.37    g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.422           TRG     Yes     Y       =                       Y
N       0.203   0.406   0.406   mg/kg   mg/kg
        DUSR

DE-38-01A-08022012      SW6010B 2012/08/07 19:48:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-21    20.39   1.305   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 27.6            TRG     Yes     Y       =                       Y
N       2.41    4.81    4.81    mg/kg   mg/kg
        DUSR

DE-38-01A-08022012      SW6010B 2012/08/07 19:48:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-21    20.39   1.305   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.610           TRG     Yes     Y       =                       Y
N       0.241   0.481   0.481   mg/kg   mg/kg
        DUSR

DE-38-01B-08022012      SW6010B 2012/08/07 19:52:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-22    11.78   1.393   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 47.2            TRG     Yes     Y       =                       Y
N       2.03    4.07    4.07    mg/kg   mg/kg
        DUSR

DE-38-01B-08022012      SW6010B 2012/08/07 19:52:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-22    11.78   1.393   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.498           TRG     Yes     Y       =                       Y
N       0.203   0.407   0.407   mg/kg   mg/kg
        DUSR

DE-38-01C-08022012      SW6010B 2012/08/07 19:55:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-23    6.09    1.356   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 8.28            TRG     Yes     Y       =                       Y
N       1.96    3.93    3.93    mg/kg   mg/kg
        DUSR

DE-38-01C-08022012      SW6010B 2012/08/07 19:55:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
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NONE            MICROBAC        QUANT   L12080188-23    6.09    1.356   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.196   0.196   0.393   mg/kg   mg/kg
        DUSR

DE-38-01D-08022012      SW6010B 2012/08/07 19:59:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-24    7.62    1.316   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 5.75            TRG     Yes     Y       =                       Y
N       2.06    4.11    4.11    mg/kg   mg/kg
        DUSR

DE-38-01D-08022012      SW6010B 2012/08/07 19:59:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-24    7.62    1.316   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.211           TRG     Yes     Y       J       J       J       Y
N       0.206   0.411   0.411   mg/kg   mg/kg
        DUSR

DE-38-01E-08022012      SW6010B 2012/08/08 09:36:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-25    4.82    1.328   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 4.55            TRG     Yes     Y       =       J       J       Y
N       1.98    3.96    3.96    mg/kg   mg/kg
        DUSR

DE-38-01E-08022012      SW6010B 2012/08/08 09:36:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-25    4.82    1.328   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.765           TRG     Yes     Y       =       J       J       Y
N       0.198   0.396   0.396   mg/kg   mg/kg
        DUSR

DE-38-01E-08022012MSDSD SW6010B 2012/08/08 09:43:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-27    4.82    1.392   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 10.5            SC      Yes     Y       =                       Y
N       1.89    3.77    3.77    mg/kg   mg/kg
        DUSR                                            4.329442771084
7.930630541164  10.5    78.7    8.02    80      120     20              *

DE-38-01E-08022012MSDSD SW6010B 2012/08/08 09:43:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-27    4.82    1.392   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.84            SC      Yes     Y       =                       Y
N       0.189   0.377   0.377   mg/kg   mg/kg
        DUSR                                            .7277861445783
.9913288176455  1.84    114     5.28    80      120     20

DE-38-01E-08022012MSMS  SW6010B 2012/08/08 09:39:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:49:00
NONE            MICROBAC        QUANT   L12080188-26    4.82    1.352   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 11.4            SC      Yes     Y       =                       Y
N       1.94    3.89    3.89    mg/kg   mg/kg
        DUSR            4.329442771084  8.165264580843  11.4    87.7
                        80      120     20
DE-38-01E-08022012MSMS  SW6010B 2012/08/08 09:39:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:49:00
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NONE            MICROBAC        QUANT   L12080188-26    4.82    1.352   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.94            SC      Yes     Y       =                       Y
N       0.194   0.389   0.389   mg/kg   mg/kg
        DUSR            .7277861445783  1.020658072605  1.94    121
                                80      120     20      *
DE-38-01F-08022012      SW6010B 2012/08/07 20:03:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-28    4.6     1.456   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 4.33            TRG     Yes     Y       =                       Y
N       1.80    3.60    3.60    mg/kg   mg/kg
        DUSR

DE-38-01F-08022012      SW6010B 2012/08/07 20:03:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-28    4.6     1.456   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.180   0.18    0.360   mg/kg   mg/kg
        DUSR

DE-38-01G-08022012      SW6010B 2012/08/07 20:06:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-29    4.48    1.389   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 5.04            TRG     Yes     Y       =                       Y
N       1.88    3.77    3.77    mg/kg   mg/kg
        DUSR

DE-38-01G-08022012      SW6010B 2012/08/07 20:06:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-29    4.48    1.389   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.188   0.188   0.377   mg/kg   mg/kg
        DUSR

DE-39-01A-08022012      SW6010B 2012/08/07 20:13:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-31    47.8    1.371   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 40.1            TRG     Yes     Y       =                       Y
N       3.49    6.99    6.99    mg/kg   mg/kg
        DUSR

DE-39-01A-08022012      SW6010B 2012/08/07 20:13:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-31    47.8    1.371   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 2.27            TRG     Yes     Y       =                       Y
N       0.349   0.699   0.699   mg/kg   mg/kg
        DUSR

DE-39-01B-08022012      SW6010B 2012/08/07 20:17:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-32    18.11   1.342   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 116             TRG     Yes     Y       =                       Y
N       2.28    4.55    4.55    mg/kg   mg/kg
        DUSR

DE-39-01B-08022012      SW6010B 2012/08/07 20:17:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-32    18.11   1.342   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
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CADMIUM 2.17            TRG     Yes     Y       =                       Y
N       0.228   0.455   0.455   mg/kg   mg/kg
        DUSR

DE-39-01C-08022012      SW6010B 2012/08/07 20:27:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-33    12.44   1.35    g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 99.6            TRG     Yes     Y       =                       Y
N       2.12    4.23    4.23    mg/kg   mg/kg
        DUSR

DE-39-01C-08022012      SW6010B 2012/08/07 20:27:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-33    12.44   1.35    g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.09            TRG     Yes     Y       =                       Y
N       0.212   0.423   0.423   mg/kg   mg/kg
        DUSR

DE-39-01D-08022012      SW6010B 2012/08/07 20:31:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-34    2.36    1.351   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 10.0            TRG     Yes     Y       =                       Y
N       1.90    3.79    3.79    mg/kg   mg/kg
        DUSR

DE-39-01D-08022012      SW6010B 2012/08/07 20:31:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-34    2.36    1.351   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.190   0.19    0.379   mg/kg   mg/kg
        DUSR

DE-39-01E-08022012      SW6010B 2012/08/07 20:34:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-35    2.77    1.31    g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 9.68            TRG     Yes     Y       =                       Y
N       1.96    3.93    3.93    mg/kg   mg/kg
        DUSR

DE-39-01E-08022012      SW6010B 2012/08/07 20:34:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-35    2.77    1.31    g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.324           TRG     Yes     Y       J       J       J       Y
N       0.196   0.393   0.393   mg/kg   mg/kg
        DUSR

DE-39-01F-08022012      SW6010B 2012/08/08 19:40:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-36    6.96    1.422   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 6.93            TRG     Yes     Y       =                       Y
N       1.89    3.78    3.78    mg/kg   mg/kg
        DUSR

DE-39-01F-08022012      SW6010B 2012/08/08 19:40:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-36    6.96    1.422   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.189   0.189   0.378   mg/kg   mg/kg
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        DUSR

DE-39-01F-08022012MSDSD SW6010B 2012/08/08 19:54:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-38    6.96    1.336   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 14.7            SC      Yes     Y       =                       Y
N       2.01    4.02    4.02    mg/kg   mg/kg
        DUSR                                            6.443389592123
8.647519305944  14.7    96.0    0.0361  80      120     20

DE-39-01F-08022012MSDSD SW6010B 2012/08/08 19:54:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-38    6.96    1.336   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.953           SC      Yes     Y       =                       Y
N       0.201   0.402   0.402   mg/kg   mg/kg
        DUSR                                            0       1.080939913243
0.953   94.8    3.84    80      120     20
DE-39-01F-08022012MSMS  SW6010B 2012/08/08 19:44:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-37    6.96    1.417   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 14.7            SC      Yes     Y       =                       Y
N       1.90    3.79    3.79    mg/kg   mg/kg
        DUSR            6.443389592123  8.153200982880  14.7    102
                        80      120     20
DE-39-01F-08022012MSMS  SW6010B 2012/08/08 19:44:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-37    6.96    1.417   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.917           SC      Yes     Y       =                       Y
N       0.190   0.379   0.379   mg/kg   mg/kg
        DUSR            0       1.019150122860  0.917   96.8
                        80      120     20
DE-39-01G-08022012      SW6010B 2012/08/07 20:37:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-39    6.33    1.324   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 2.97            TRG     Yes     Y       J       J       J       Y
N       2.02    4.03    4.03    mg/kg   mg/kg
        DUSR

DE-39-01G-08022012      SW6010B 2012/08/07 20:37:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-39    6.33    1.324   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.202   0.202   0.403   mg/kg   mg/kg
        DUSR

DE-40-01A-08022012      SW6010B 2012/08/07 20:41:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-40    34.79   1.373   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 32.1            TRG     Yes     Y       =                       Y
N       2.79    5.59    5.59    mg/kg   mg/kg
        DUSR

DE-40-01A-08022012      SW6010B 2012/08/07 20:41:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-40    34.79   1.373   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 2.27            TRG     Yes     Y       =                       Y
N       0.279   0.559   0.559   mg/kg   mg/kg
        DUSR
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DE-40-01B-08022012      SW6010B 2012/08/07 20:44:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-41    12.13   1.347   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 39.9            TRG     Yes     Y       =                       Y
N       2.11    4.22    4.22    mg/kg   mg/kg
        DUSR

DE-40-01B-08022012      SW6010B 2012/08/07 20:44:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-41    12.13   1.347   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.06            TRG     Yes     Y       =                       Y
N       0.211   0.422   0.422   mg/kg   mg/kg
        DUSR

DE-40-01C-08022012      SW6010B 2012/08/07 20:48:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-42    28.35   1.403   g
PDM     ICP-THERMO1     Reassigned from DE-41-01C-08022012 to
DE-40-01C-08022012 per S. Lowe [typo in EDD] -JAT 2012-09-14 15:15      NONE
50.0    ml      7440-38-2       ARSENIC 28.0            TRG     Yes     Y
=                       Y       N       2.49    4.97    4.97    mg/kg   mg/kg
                                        DUSR    Reassigned from
DE-41-01C-08022012 to DE-40-01C-08022012 per S. Lowe [typo in EDD] -JAT
2012-09-14 15:15

DE-40-01C-08022012      SW6010B 2012/08/07 20:48:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-42    28.35   1.403   g
PDM     ICP-THERMO1     Reassigned from DE-41-01C-08022012 to
DE-40-01C-08022012 per S. Lowe [typo in EDD] -JAT 2012-09-14 15:15      NONE
50.0    ml      7440-43-9       CADMIUM 1.84            TRG     Yes     Y
=                       Y       N       0.249   0.497   0.497   mg/kg   mg/kg
                                        DUSR    Reassigned from
DE-41-01C-08022012 to DE-40-01C-08022012 per S. Lowe [typo in EDD] -JAT
2012-09-14 15:15

DE-40-01D-08022012      SW6010B 2012/08/08 11:36:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-43    20.82   1.326   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 60.9            TRG     Yes     Y       =                       Y
N       2.38    4.76    4.76    mg/kg   mg/kg
        DUSR

DE-40-01D-08022012      SW6010B 2012/08/08 11:36:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-43    20.82   1.326   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.03            TRG     Yes     Y       =                       Y
N       0.238   0.476   0.476   mg/kg   mg/kg
        DUSR

DE-40-01E-08022012      SW6010B 2012/08/08 11:39:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-44    5.25    1.307   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 5.65            TRG     Yes     Y       =                       Y
N       2.02    4.04    4.04    mg/kg   mg/kg
        DUSR

DE-40-01E-08022012      SW6010B 2012/08/08 11:39:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-44    5.25    1.307   g
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PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       Y
N       0.202   0.202   0.404   mg/kg   mg/kg
        DUSR

DE-40-01F-08022012      SW6010B 2012/08/08 11:42:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-45    5.96    1.323   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 6.03            TRG     Yes     Y       =                       Y
N       2.01    4.02    4.02    mg/kg   mg/kg
        DUSR

DE-40-01F-08022012      SW6010B 2012/08/08 11:42:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-45    5.96    1.323   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 5.14            TRG     Yes     Y       =                       Y
N       0.201   0.402   0.402   mg/kg   mg/kg
        DUSR

DE-40-01G-08022012      SW6010B 2012/08/08 11:46:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-46    6.88    1.395   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 5.23            TRG     Yes     Y       =                       Y
N       1.92    3.85    3.85    mg/kg   mg/kg
        DUSR

DE-40-01G-08022012      SW6010B 2012/08/08 11:46:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-46    6.88    1.395   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.192   0.192   0.385   mg/kg   mg/kg
        DUSR

DE-41-01A-08022012      SW6010B 2012/08/08 11:53:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-48    17.09   1.304   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 167             TRG     Yes     Y       =                       Y
N       2.31    4.62    4.62    mg/kg   mg/kg
        DUSR

DE-41-01A-08022012      SW6010B 2012/08/08 11:53:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-48    17.09   1.304   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 2.63            TRG     Yes     Y       =                       Y
N       0.231   0.462   0.462   mg/kg   mg/kg
        DUSR

DE-41-01B-08022012      SW6010B 2012/08/08 11:56:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-49    13.12   1.334   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 161             TRG     Yes     Y       =                       Y
N       2.16    4.31    4.31    mg/kg   mg/kg
        DUSR

DE-41-01B-08022012      SW6010B 2012/08/08 11:56:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-49    13.12   1.334   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.98            TRG     Yes     Y       =                       Y
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N       0.216   0.431   0.431   mg/kg   mg/kg
        DUSR

DE-41-01C-08022012      SW6010B 2012/08/08 12:07:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-50    12.55   1.338   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 51.6            TRG     Yes     Y       =                       Y
N       2.14    4.27    4.27    mg/kg   mg/kg
        DUSR

DE-41-01C-08022012      SW6010B 2012/08/08 12:07:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-50    12.55   1.338   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.759           TRG     Yes     Y       =                       Y
N       0.214   0.427   0.427   mg/kg   mg/kg
        DUSR

DE-41-01D-08022012      SW6010B 2012/08/08 12:10:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-51    8.39    1.382   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 3.02            TRG     Yes     Y       J       J       J       Y
N       1.97    3.95    3.95    mg/kg   mg/kg
        DUSR

DE-41-01D-08022012      SW6010B 2012/08/08 12:10:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-51    8.39    1.382   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.197   0.197   0.395   mg/kg   mg/kg
        DUSR

DE-41-01E-08022012      SW6010B 2012/08/08 12:14:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-52    6.74    1.362   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 4.14            TRG     Yes     Y       =                       Y
N       1.97    3.94    3.94    mg/kg   mg/kg
        DUSR

DE-41-01E-08022012      SW6010B 2012/08/08 12:14:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-52    6.74    1.362   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.197   0.197   0.394   mg/kg   mg/kg
        DUSR

DE-41-01F-08022012      SW6010B 2012/08/08 12:17:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-53    7.48    1.334   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 3.42            TRG     Yes     Y       J       J       J       Y
N       2.03    4.05    4.05    mg/kg   mg/kg
        DUSR

DE-41-01F-08022012      SW6010B 2012/08/08 12:17:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-53    7.48    1.334   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.277           TRG     Yes     Y       J       J       J       Y
N       0.203   0.405   0.405   mg/kg   mg/kg
        DUSR
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DE-41-01G-08022012      SW6010B 2012/08/08 12:21:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-54    6.42    1.375   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 4.16            TRG     Yes     Y       =                       Y
N       1.94    3.89    3.89    mg/kg   mg/kg
        DUSR

DE-41-01G-08022012      SW6010B 2012/08/08 12:21:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-54    6.42    1.375   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.194   0.194   0.389   mg/kg   mg/kg
        DUSR

DE-42-01A-08022012      SW6010B 2012/08/07 18:36:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-12    15.91   1.304   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 85.8            TRG     Yes     Y       =                       Y
N       2.28    4.56    4.56    mg/kg   mg/kg
        DUSR

DE-42-01A-08022012      SW6010B 2012/08/07 18:36:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-12    15.91   1.304   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 2.21            TRG     Yes     Y       =                       Y
N       0.228   0.456   0.456   mg/kg   mg/kg
        DUSR

DE-42-01B-08022012      SW6010B 2012/08/07 18:39:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-13    13.0    1.386   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 78.6            TRG     Yes     Y       =                       Y
N       2.07    4.15    4.15    mg/kg   mg/kg
        DUSR

DE-42-01B-08022012      SW6010B 2012/08/07 18:39:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-13    13.0    1.386   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.00            TRG     Yes     Y       =                       Y
N       0.207   0.415   0.415   mg/kg   mg/kg
        DUSR

DE-42-01C-08022012      SW6010B 2012/08/07 18:42:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-14    15.6    1.344   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 24.0            TRG     Yes     Y       =                       Y
N       2.20    4.41    4.41    mg/kg   mg/kg
        DUSR

DE-42-01C-08022012      SW6010B 2012/08/07 18:42:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-14    15.6    1.344   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.373           TRG     Yes     Y       J       J       J       Y
N       0.220   0.441   0.441   mg/kg   mg/kg
        DUSR

DE-42-01D-08022012      SW6010B 2012/08/07 18:46:00     T       NA
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INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-15    7.43    1.343   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 10.4            TRG     Yes     Y       =                       Y
N       2.01    4.02    4.02    mg/kg   mg/kg
        DUSR

DE-42-01D-08022012      SW6010B 2012/08/07 18:46:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-15    7.43    1.343   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.33            TRG     Yes     Y       =                       Y
N       0.201   0.402   0.402   mg/kg   mg/kg
        DUSR

DE-42-01E-08022012      SW6010B 2012/08/07 18:49:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-16    10.29   1.464   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 10.1            TRG     Yes     Y       =                       Y
N       1.90    3.81    3.81    mg/kg   mg/kg
        DUSR

DE-42-01E-08022012      SW6010B 2012/08/07 18:49:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-16    10.29   1.464   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.415           TRG     Yes     Y       =                       Y
N       0.190   0.381   0.381   mg/kg   mg/kg
        DUSR

DE-42-01F-08022012      SW6010B 2012/08/07 18:53:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-17    4.66    1.328   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 11.1            TRG     Yes     Y       =                       Y
N       1.97    3.95    3.95    mg/kg   mg/kg
        DUSR

DE-42-01F-08022012      SW6010B 2012/08/07 18:53:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-17    4.66    1.328   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.197   0.197   0.395   mg/kg   mg/kg
        DUSR

DE-42-01G-08022012      SW6010B 2012/08/07 19:20:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-18    10.13   1.453   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 4.78            TRG     Yes     Y       =                       Y
N       1.91    3.83    3.83    mg/kg   mg/kg
        DUSR

DE-42-01G-08022012      SW6010B 2012/08/07 19:20:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-18    10.13   1.453   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.401           TRG     Yes     Y       =                       Y
N       0.191   0.383   0.383   mg/kg   mg/kg
        DUSR

DE-43-01A-08022012      SW6010B 2012/08/08 20:22:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-64    43.95   1.431   g
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PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 60.1            TRG     Yes     Y       =                       Y
N       3.12    6.23    6.23    mg/kg   mg/kg
        DUSR

DE-43-01A-08022012      SW6010B 2012/08/08 20:22:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-64    43.95   1.431   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 5.09            TRG     Yes     Y       =                       Y
N       0.312   0.623   0.623   mg/kg   mg/kg
        DUSR

DE-43-01B-08022012      SW6010B 2012/08/08 20:26:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-65    11.19   1.431   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 82.6            TRG     Yes     Y       =                       Y
N       1.97    3.93    3.93    mg/kg   mg/kg
        DUSR

DE-43-01B-08022012      SW6010B 2012/08/08 20:26:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-65    11.19   1.431   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.08            TRG     Yes     Y       =                       Y
N       0.197   0.393   0.393   mg/kg   mg/kg
        DUSR

DE-43-01C-08022012      SW6010B 2012/08/08 20:36:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-66    13.88   1.425   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 53.6            TRG     Yes     Y       =                       Y
N       2.04    4.07    4.07    mg/kg   mg/kg
        DUSR

DE-43-01C-08022012      SW6010B 2012/08/08 20:36:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-66    13.88   1.425   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.731           TRG     Yes     Y       =                       Y
N       0.204   0.407   0.407   mg/kg   mg/kg
        DUSR

DE-43-01D-08022012      SW6010B 2012/08/08 20:39:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-67    12.95   1.403   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 3.45            TRG     Yes     Y       J       J       J       Y
N       2.05    4.09    4.09    mg/kg   mg/kg
        DUSR

DE-43-01D-08022012      SW6010B 2012/08/08 20:39:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-67    12.95   1.403   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.376           TRG     Yes     Y       J       J       J       Y
N       0.205   0.409   0.409   mg/kg   mg/kg
        DUSR

DE-43-01E-08022012      SW6010B 2012/08/08 20:43:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-68    15.66   1.439   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 21.6            TRG     Yes     Y       =                       Y
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N       2.06    4.12    4.12    mg/kg   mg/kg
        DUSR

DE-43-01E-08022012      SW6010B 2012/08/08 20:43:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-68    15.66   1.439   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.880           TRG     Yes     Y       =                       Y
N       0.206   0.412   0.412   mg/kg   mg/kg
        DUSR

DE-43-01F-08022012      SW6010B 2012/08/08 20:46:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-69    13.7    1.315   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 10.2            TRG     Yes     Y       =                       Y
N       2.20    4.41    4.41    mg/kg   mg/kg
        DUSR

DE-43-01F-08022012      SW6010B 2012/08/08 20:46:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-69    13.7    1.315   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.35            TRG     Yes     Y       =                       Y
N       0.220   0.441   0.441   mg/kg   mg/kg
        DUSR

DE-43-01G-08022012      SW6010B 2012/08/08 20:50:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-70    4.1     1.362   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 4.81            TRG     Yes     Y       =                       Y
N       1.91    3.83    3.83    mg/kg   mg/kg
        DUSR

DE-43-01G-08022012      SW6010B 2012/08/08 20:50:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-70    4.1     1.362   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.191   0.191   0.383   mg/kg   mg/kg
        DUSR

DE-44-01A-08022012      SW6010B 2012/08/08 12:28:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-56    39.59   1.304   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 46.0            TRG     Yes     Y       =                       Y
N       3.17    6.35    6.35    mg/kg   mg/kg
        DUSR

DE-44-01A-08022012      SW6010B 2012/08/08 12:28:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-56    39.59   1.304   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 3.72            TRG     Yes     Y       =                       Y
N       0.317   0.635   0.635   mg/kg   mg/kg
        DUSR

DE-44-01B-08022012      SW6010B 2012/08/08 19:58:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-57    23.69   1.39    g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 66.1            TRG     Yes     Y       =                       Y
N       2.36    4.71    4.71    mg/kg   mg/kg
        DUSR
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DE-44-01B-08022012      SW6010B 2012/08/08 19:58:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-57    23.69   1.39    g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 2.79            TRG     Yes     Y       =                       Y
N       0.236   0.471   0.471   mg/kg   mg/kg
        DUSR

DE-44-01C-08022012      SW6010B 2012/08/08 20:01:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-58    23.75   1.324   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 134             TRG     Yes     Y       =                       Y
N       2.48    4.95    4.95    mg/kg   mg/kg
        DUSR

DE-44-01C-08022012      SW6010B 2012/08/08 20:01:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-58    23.75   1.324   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 3.99            TRG     Yes     Y       =                       Y
N       0.248   0.495   0.495   mg/kg   mg/kg
        DUSR

DE-44-01D-08022012      SW6010B 2012/08/08 20:05:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-59    13.67   1.301   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 22.1            TRG     Yes     Y       =                       Y
N       2.23    4.45    4.45    mg/kg   mg/kg
        DUSR

DE-44-01D-08022012      SW6010B 2012/08/08 20:05:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-59    13.67   1.301   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.421           TRG     Yes     Y       J       J       J       Y
N       0.223   0.445   0.445   mg/kg   mg/kg
        DUSR

DE-44-01E-08022012      SW6010B 2012/08/08 20:08:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-60    9.32    1.33    g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 15.8            TRG     Yes     Y       =                       Y
N       2.07    4.15    4.15    mg/kg   mg/kg
        DUSR

DE-44-01E-08022012      SW6010B 2012/08/08 20:08:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-60    9.32    1.33    g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.322           TRG     Yes     Y       J       J       J       Y
N       0.207   0.415   0.415   mg/kg   mg/kg
        DUSR

DE-44-01F-08022012      SW6010B 2012/08/08 20:12:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-61    11.3    1.321   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 19.0            TRG     Yes     Y       =                       Y
N       2.13    4.27    4.27    mg/kg   mg/kg
        DUSR

DE-44-01F-08022012      SW6010B 2012/08/08 20:12:00     T       NA
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INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-61    11.3    1.321   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 6.43            TRG     Yes     Y       =                       Y
N       0.213   0.427   0.427   mg/kg   mg/kg
        DUSR

DE-44-01G-08022012      SW6010B 2012/08/08 20:16:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-62    6.54    1.467   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 5.27            TRG     Yes     Y       =                       Y
N       1.82    3.65    3.65    mg/kg   mg/kg
        DUSR

DE-44-01G-08022012      SW6010B 2012/08/08 20:16:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-62    6.54    1.467   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.182   0.182   0.365   mg/kg   mg/kg
        DUSR

DE-45-01A-07312012      SW6010B 2012/08/03 14:52:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:05:00
NONE            MICROBAC        QUANT   L12080096-43    27.33   1.356   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 27.4            TRG     Yes     Y       =                       Y
N       2.54    5.07    5.07    mg/kg   mg/kg
        DUSR

DE-45-01A-07312012      SW6010B 2012/08/03 14:52:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:05:00
NONE            MICROBAC        QUANT   L12080096-43    27.33   1.356   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 26.7            TRG     Yes     Y       =       J       J       Y
N       0.254   0.507   0.507   mg/kg   mg/kg
        DUSR

DE-45-01B-07312012      SW6010B 2012/08/03 14:55:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:05:00
NONE            MICROBAC        QUANT   L12080096-44    10.69   1.465   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 42.7            TRG     Yes     Y       =                       Y
N       1.91    3.82    3.82    mg/kg   mg/kg
        DUSR

DE-45-01B-07312012      SW6010B 2012/08/03 14:55:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:05:00
NONE            MICROBAC        QUANT   L12080096-44    10.69   1.465   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 53.5            TRG     Yes     Y       =                       Y
N       0.191   0.382   0.382   mg/kg   mg/kg
        DUSR

DE-45-02C-07312012      SW6010B 2012/08/03 14:59:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:06:00
NONE            MICROBAC        QUANT   L12080096-45    8.32    1.334   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 16.9            TRG     Yes     Y       =       J       J       Y
N       2.04    4.09    4.09    mg/kg   mg/kg
        DUSR

DE-45-02C-07312012      SW6010B 2012/08/03 14:59:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:06:00
NONE            MICROBAC        QUANT   L12080096-45    8.32    1.334   g
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PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 24.2            TRG     Yes     Y       =                       Y
N       0.204   0.409   0.409   mg/kg   mg/kg
        DUSR

DE-45-02C-07312012MS    SW6010B 2012/08/03 15:02:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:51:00
NONE            MICROBAC        QUANT   WG405429-04L12080096    8.32    1.334
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 30.5            SC      Yes     Y       *                       Y
N       2.04    4.09    4.09    mg/kg   mg/kg
        DUSR            15.45239880059  8.918597359984  30.5    167
                        80      120     20      *
DE-45-02C-07312012MS    SW6010B 2012/08/03 15:02:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:51:00
NONE            MICROBAC        QUANT   WG405429-04L12080096    8.32    1.334
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 23.5            SC      Yes     Y       *                       Y
N       0.204   0.409   0.409   mg/kg   mg/kg
        DUSR            22.21889055472  1.114824669998  23.5    0
                        80      120     20      *
DE-45-02C-07312012SD    SW6010B 2012/08/03 15:06:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:51:00
NONE            MICROBAC        QUANT   WG405429-05L12080096    8.32    1.343
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 28.7            SC      Yes     Y       *                       Y
N       2.03    4.06    4.06    mg/kg   mg/kg
        DUSR                                            15.45239880059
8.858830140147  28.7    146     5.99    80      120     20              *

DE-45-02C-07312012SD    SW6010B 2012/08/03 15:06:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:51:00
NONE            MICROBAC        QUANT   WG405429-05L12080096    8.32    1.343
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 28.1            SC      Yes     Y       *                       Y
N       0.203   0.406   0.406   mg/kg   mg/kg
        DUSR                                            22.21889055472
1.107353767518  28.1    379     17.7    80      120     20              *

DE-46-01A-08012012      SW6010B 2012/08/07 18:01:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-01    23.69   1.372   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 23.8            TRG     Yes     Y       =       J       J       Y
N       2.39    4.78    4.78    mg/kg   mg/kg
        DUSR

DE-46-01A-08012012      SW6010B 2012/08/07 18:01:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-01    23.69   1.372   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 3.10            TRG     Yes     Y       =                       Y
N       0.239   0.478   0.478   mg/kg   mg/kg
        DUSR

DE-46-01A-08012012MSDSD SW6010B 2012/08/07 18:07:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-03    23.69   1.455   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 31.8            SC      Yes     Y       =                       Y
N       2.25    4.50    4.50    mg/kg   mg/kg
        DUSR                                            18.17456268221
11.80303519594  31.8    88.1    0.315   80      120     20

DE-46-01A-08012012MSDSD SW6010B 2012/08/07 18:07:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
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NONE            MICROBAC        QUANT   L12080188-03    23.69   1.455   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 4.30            SC      Yes     Y       =                       Y
N       0.225   0.450   0.450   mg/kg   mg/kg
        DUSR                                            2.365524781341
1.475379399492  4.30    107     0.885   80      120     20

DE-46-01A-08012012MSMS  SW6010B 2012/08/07 18:04:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-02    23.69   1.336   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 31.7            SC      Yes     Y       =                       Y
N       2.45    4.90    4.90    mg/kg   mg/kg
        DUSR            18.17456268221  12.85435345067  31.7    79.9
                                80      120     20      *
DE-46-01A-08012012MSMS  SW6010B 2012/08/07 18:04:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-02    23.69   1.336   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 4.34            SC      Yes     Y       =                       Y
N       0.245   0.490   0.490   mg/kg   mg/kg
        DUSR            2.365524781341  1.606794181334  4.34    101
                                80      120     20
DE-46-01B-08012012      SW6010B 2012/08/07 19:10:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-04    13.7    1.466   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 23.7            TRG     Yes     Y       =                       Y
N       1.98    3.95    3.95    mg/kg   mg/kg
        DUSR

DE-46-01B-08012012      SW6010B 2012/08/07 19:10:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-04    13.7    1.466   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 2.20            TRG     Yes     Y       =       J       J       Y
N       0.198   0.395   0.395   mg/kg   mg/kg
        DUSR

DE-46-01B-08012012MSDSD SW6010B 2012/08/07 19:17:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-06    13.7    1.369   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 32.6            SC      Yes     Y       =                       Y
N       2.12    4.23    4.23    mg/kg   mg/kg
        DUSR                                            20.45395634379
9.808898051178  32.6    106     2.48    80      120     20

DE-46-01B-08012012MSDSD SW6010B 2012/08/07 19:17:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-06    13.7    1.369   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 2.63            SC      Yes     Y       =                       Y
N       0.212   0.423   0.423   mg/kg   mg/kg
        DUSR                                            1.894952251023
1.226112256397  2.63    40.7    13.7    80      120     20              *

DE-46-01B-08012012MSMS  SW6010B 2012/08/07 19:14:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-05    13.7    1.379   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 31.8            SC      Yes     Y       =                       Y
N       2.10    4.20    4.20    mg/kg   mg/kg
        DUSR            20.45395634379  9.737767535941  31.8    96.9
                                80      120     20
DE-46-01B-08012012MSMS  SW6010B 2012/08/07 19:14:00     T       NA
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INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-05    13.7    1.379   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 3.01            SC      Yes     Y       =                       Y
N       0.210   0.420   0.420   mg/kg   mg/kg
        DUSR            1.894952251023  1.217220941992  3.01    77.6
                                80      120     20      *
DE-46-01C-08012012      SW6010B 2012/08/07 18:11:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-07    10.51   1.337   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 27.1            TRG     Yes     Y       =                       Y
N       2.09    4.18    4.18    mg/kg   mg/kg
        DUSR

DE-46-01C-08012012      SW6010B 2012/08/07 18:11:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-07    10.51   1.337   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.49            TRG     Yes     Y       =                       Y
N       0.209   0.418   0.418   mg/kg   mg/kg
        DUSR

DE-46-01D-08012012      SW6010B 2012/08/07 18:14:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-08    9.31    1.368   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 56.4            TRG     Yes     Y       =                       Y
N       2.02    4.03    4.03    mg/kg   mg/kg
        DUSR

DE-46-01D-08012012      SW6010B 2012/08/07 18:14:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-08    9.31    1.368   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.00            TRG     Yes     Y       =                       Y
N       0.202   0.403   0.403   mg/kg   mg/kg
        DUSR

DE-46-01E-08012012      SW6010B 2012/08/07 18:18:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-09    12.47   1.391   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 3.37            TRG     Yes     Y       J       J       J       Y
N       2.05    4.11    4.11    mg/kg   mg/kg
        DUSR

DE-46-01E-08012012      SW6010B 2012/08/07 18:18:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-09    12.47   1.391   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.434           TRG     Yes     Y       =                       Y
N       0.205   0.411   0.411   mg/kg   mg/kg
        DUSR

DE-46-01F-08012012      SW6010B 2012/08/07 18:22:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-10    12.82   1.392   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 5.07            TRG     Yes     Y       =                       Y
N       2.06    4.12    4.12    mg/kg   mg/kg
        DUSR

DE-46-01F-08012012      SW6010B 2012/08/07 18:22:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-10    12.82   1.392   g
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PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.296           TRG     Yes     Y       J       J       J       Y
N       0.206   0.412   0.412   mg/kg   mg/kg
        DUSR

DE-46-01G-08012012      SW6010B 2012/08/07 18:32:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-11    15.45   1.415   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 10.8            TRG     Yes     Y       =                       Y
N       2.09    4.18    4.18    mg/kg   mg/kg
        DUSR

DE-46-01G-08012012      SW6010B 2012/08/07 18:32:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 07:28:00
NONE            MICROBAC        QUANT   L12080188-11    15.45   1.415   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.27            TRG     Yes     Y       =                       Y
N       0.209   0.418   0.418   mg/kg   mg/kg
        DUSR

DE-47-01A-07312012      SW6010B 2012/08/03 14:31:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:03:00
NONE            MICROBAC        QUANT   L12080096-38    27.14   1.327   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 115             TRG     Yes     Y       =                       Y
N       2.59    5.17    5.17    mg/kg   mg/kg
        DUSR

DE-47-01A-07312012      SW6010B 2012/08/03 14:31:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:03:00
NONE            MICROBAC        QUANT   L12080096-38    27.14   1.327   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 2.87            TRG     Yes     Y       =                       Y
N       0.259   0.517   0.517   mg/kg   mg/kg
        DUSR

DE-47-01B-07312012      SW6010B 2012/08/03 14:35:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:03:00
NONE            MICROBAC        QUANT   L12080096-39    15.7    1.415   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 103             TRG     Yes     Y       =                       Y
N       2.10    4.19    4.19    mg/kg   mg/kg
        DUSR

DE-47-01B-07312012      SW6010B 2012/08/03 14:35:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:03:00
NONE            MICROBAC        QUANT   L12080096-39    15.7    1.415   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.31            TRG     Yes     Y       =                       Y
N       0.210   0.419   0.419   mg/kg   mg/kg
        DUSR

DE-47-01C-07312012      SW6010B 2012/08/03 14:45:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:04:00
NONE            MICROBAC        QUANT   L12080096-40    11.98   1.374   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 49.4            TRG     Yes     Y       =                       Y
N       2.07    4.13    4.13    mg/kg   mg/kg
        DUSR

DE-47-01C-07312012      SW6010B 2012/08/03 14:45:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:04:00
NONE            MICROBAC        QUANT   L12080096-40    11.98   1.374   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.659           TRG     Yes     Y       =                       Y
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N       0.207   0.413   0.413   mg/kg   mg/kg
        DUSR

DE-47-01D-07312012      SW6010B 2012/08/03 14:48:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:05:00
NONE            MICROBAC        QUANT   L12080096-41    10.95   1.398   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 33.1            TRG     Yes     Y       =                       Y
N       2.01    4.02    4.02    mg/kg   mg/kg
        DUSR

DE-47-01D-07312012      SW6010B 2012/08/03 14:48:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:05:00
NONE            MICROBAC        QUANT   L12080096-41    10.95   1.398   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.912           TRG     Yes     Y       =                       Y
N       0.201   0.402   0.402   mg/kg   mg/kg
        DUSR

DE-48-01A-07312012      SW6010B 2012/08/03 14:18:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:00:00
NONE            MICROBAC        QUANT   L12080096-34    21.18   1.378   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 77.4            TRG     Yes     Y       =                       Y
N       2.30    4.60    4.60    mg/kg   mg/kg
        DUSR

DE-48-01A-07312012      SW6010B 2012/08/03 14:18:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:00:00
NONE            MICROBAC        QUANT   L12080096-34    21.18   1.378   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 4.03            TRG     Yes     Y       =                       Y
N       0.230   0.460   0.460   mg/kg   mg/kg
        DUSR

DE-48-01B-07312012      SW6010B 2012/08/03 14:21:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:01:00
NONE            MICROBAC        QUANT   L12080096-35    18.49   1.323   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 60.1            TRG     Yes     Y       =                       Y
N       2.32    4.64    4.64    mg/kg   mg/kg
        DUSR

DE-48-01B-07312012      SW6010B 2012/08/03 14:21:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:01:00
NONE            MICROBAC        QUANT   L12080096-35    18.49   1.323   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 2.73            TRG     Yes     Y       =                       Y
N       0.232   0.464   0.464   mg/kg   mg/kg
        DUSR

DE-48-01C-07312012      SW6010B 2012/08/03 14:25:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:01:00
NONE            MICROBAC        QUANT   L12080096-36    15.11   1.362   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 29.9            TRG     Yes     Y       =                       Y
N       2.16    4.32    4.32    mg/kg   mg/kg
        DUSR

DE-48-01C-07312012      SW6010B 2012/08/03 14:25:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:01:00
NONE            MICROBAC        QUANT   L12080096-36    15.11   1.362   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.73            TRG     Yes     Y       =                       Y
N       0.216   0.432   0.432   mg/kg   mg/kg
        DUSR
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DE-48-01D-07312012      SW6010B 2012/08/03 14:28:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:02:00
NONE            MICROBAC        QUANT   L12080096-37    11.11   1.379   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 38.4            TRG     Yes     Y       =                       Y
N       2.04    4.08    4.08    mg/kg   mg/kg
        DUSR

DE-48-01D-07312012      SW6010B 2012/08/03 14:28:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:02:00
NONE            MICROBAC        QUANT   L12080096-37    11.11   1.379   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.28            TRG     Yes     Y       =                       Y
N       0.204   0.408   0.408   mg/kg   mg/kg
        DUSR

DE-49-01A-07302012      SW6010B 2012/08/03 13:37:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:53:00
NONE            MICROBAC        QUANT   L12080096-23    36.33   1.33    g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 73.9            TRG     Yes     Y       =                       Y
N       2.95    5.91    5.91    mg/kg   mg/kg
        DUSR

DE-49-01A-07302012      SW6010B 2012/08/03 13:37:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:53:00
NONE            MICROBAC        QUANT   L12080096-23    36.33   1.33    g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 2.62            TRG     Yes     Y       =                       Y
N       0.295   0.591   0.591   mg/kg   mg/kg
        DUSR

DE-49-01B-07302012      SW6010B 2012/08/03 13:40:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:54:00
NONE            MICROBAC        QUANT   L12080096-24    4.18    1.328   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 25.1            TRG     Yes     Y       =                       Y
N       1.96    3.93    3.93    mg/kg   mg/kg
        DUSR

DE-49-01B-07302012      SW6010B 2012/08/03 13:40:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:54:00
NONE            MICROBAC        QUANT   L12080096-24    4.18    1.328   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.462           TRG     Yes     Y       =                       Y
N       0.196   0.393   0.393   mg/kg   mg/kg
        DUSR

DE-49-01C-07302012      SW6010B 2012/08/03 13:43:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:54:00
NONE            MICROBAC        QUANT   L12080096-25    5.33    1.437   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 30.6            TRG     Yes     Y       =                       Y
N       1.84    3.68    3.68    mg/kg   mg/kg
        DUSR

DE-49-01C-07302012      SW6010B 2012/08/03 13:43:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:54:00
NONE            MICROBAC        QUANT   L12080096-25    5.33    1.437   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.532           TRG     Yes     Y       =                       Y
N       0.184   0.368   0.368   mg/kg   mg/kg
        DUSR

DE-49-01D-07302012      SW6010B 2012/08/03 14:04:00     T       NA
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INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:58:00
NONE            MICROBAC        QUANT   L12080096-26    3.45    1.333   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 16.8            TRG     Yes     Y       =                       Y
N       1.94    3.88    3.88    mg/kg   mg/kg
        DUSR

DE-49-01D-07302012      SW6010B 2012/08/03 14:04:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:58:00
NONE            MICROBAC        QUANT   L12080096-26    3.45    1.333   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.294           TRG     Yes     Y       J       J       J       Y
N       0.194   0.388   0.388   mg/kg   mg/kg
        DUSR

DE-50-01A-07302012      SW6010B 2012/08/03 13:03:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:37:00
NONE            MICROBAC        QUANT   L12080096-19    32.36   1.348   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 49.1            TRG     Yes     Y       =                       Y
N       2.74    5.48    5.48    mg/kg   mg/kg
        DUSR

DE-50-01A-07302012      SW6010B 2012/08/03 13:03:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:37:00
NONE            MICROBAC        QUANT   L12080096-19    32.36   1.348   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 4.68            TRG     Yes     Y       =                       Y
N       0.274   0.548   0.548   mg/kg   mg/kg
        DUSR

DE-50-01B-07302012      SW6010B 2012/08/03 13:06:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:38:00
NONE            MICROBAC        QUANT   L12080096-20    11.56   1.318   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 89.7            TRG     Yes     Y       =                       Y
N       2.14    4.29    4.29    mg/kg   mg/kg
        DUSR

DE-50-01B-07302012      SW6010B 2012/08/03 13:06:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:38:00
NONE            MICROBAC        QUANT   L12080096-20    11.56   1.318   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 2.47            TRG     Yes     Y       =                       Y
N       0.214   0.429   0.429   mg/kg   mg/kg
        DUSR

DE-50-01B-07302012MS    SW6010B 2012/08/03 13:10:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:22:00
NONE            MICROBAC        QUANT   WG405428-04L12080096    11.56   1.312
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 104             SC      Yes     Y       *                       Y
N       2.15    4.31    4.31    mg/kg   mg/kg
        DUSR            79.36646433990  9.746228660872  104     161
                                80      120     20      *
DE-50-01B-07302012MS    SW6010B 2012/08/03 13:10:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:22:00
NONE            MICROBAC        QUANT   WG405428-04L12080096    11.56   1.312
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 3.39            SC      Yes     Y       =                       Y
N       0.215   0.431   0.431   mg/kg   mg/kg
        DUSR            2.185887708649  1.218278582609  3.39    85.4
                                80      120     20
DE-50-01B-07302012SD    SW6010B 2012/08/03 13:13:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:22:00
NONE            MICROBAC        QUANT   WG405428-05L12080096    11.56   1.309
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g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 96.0            SC      Yes     Y       *                       Y
N       2.16    4.32    4.32    mg/kg   mg/kg
        DUSR                                            79.36646433990
9.768565319377  96.0    72.0    7.67    80      120     20              *

DE-50-01B-07302012SD    SW6010B 2012/08/03 13:13:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:22:00
NONE            MICROBAC        QUANT   WG405428-05L12080096    11.56   1.309
g       PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 3.37            SC      Yes     Y       =                       Y
N       0.216   0.432   0.432   mg/kg   mg/kg
        DUSR                                            2.185887708649
1.221070664922  3.37    82.9    0.754   80      120     20

DE-50-01C-07302012      SW6010B 2012/08/03 13:30:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:52:00
NONE            MICROBAC        QUANT   L12080096-21    9.3     1.397   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 90.0            TRG     Yes     Y       =                       Y
N       1.97    3.95    3.95    mg/kg   mg/kg
        DUSR

DE-50-01C-07302012      SW6010B 2012/08/03 13:30:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:52:00
NONE            MICROBAC        QUANT   L12080096-21    9.3     1.397   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 2.02            TRG     Yes     Y       =                       Y
N       0.197   0.395   0.395   mg/kg   mg/kg
        DUSR

DE-50-01D-07302012      SW6010B 2012/08/03 13:33:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:53:00
NONE            MICROBAC        QUANT   L12080096-22    8.24    1.345   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 78.3            TRG     Yes     Y       =                       Y
N       2.03    4.05    4.05    mg/kg   mg/kg
        DUSR

DE-50-01D-07302012      SW6010B 2012/08/03 13:33:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:53:00
NONE            MICROBAC        QUANT   L12080096-22    8.24    1.345   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.16            TRG     Yes     Y       =                       Y
N       0.203   0.405   0.405   mg/kg   mg/kg
        DUSR

DE-51-01A-07302012      SW6010B 2012/08/03 12:56:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:36:00
NONE            MICROBAC        QUANT   L12080096-17    20.26   1.331   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 50.1            TRG     Yes     Y       =                       Y
N       2.36    4.71    4.71    mg/kg   mg/kg
        DUSR

DE-51-01A-07302012      SW6010B 2012/08/03 12:56:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:36:00
NONE            MICROBAC        QUANT   L12080096-17    20.26   1.331   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 4.17            TRG     Yes     Y       =                       Y
N       0.236   0.471   0.471   mg/kg   mg/kg
        DUSR

DE-51-01B-07302012      SW6010B 2012/08/03 12:59:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:37:00
NONE            MICROBAC        QUANT   L12080096-18    12.17   1.339   g
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PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 58.1            TRG     Yes     Y       =                       Y
N       2.13    4.25    4.25    mg/kg   mg/kg
        DUSR

DE-51-01B-07302012      SW6010B 2012/08/03 12:59:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:37:00
NONE            MICROBAC        QUANT   L12080096-18    12.17   1.339   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.50            TRG     Yes     Y       =                       Y
N       0.213   0.425   0.425   mg/kg   mg/kg
        DUSR

DE-52-01A-07302012      SW6010B 2012/08/03 12:42:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:35:00
NONE            MICROBAC        QUANT   L12080096-15    19.16   1.347   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 6.71            TRG     Yes     Y       =                       Y
N       2.30    4.59    4.59    mg/kg   mg/kg
        DUSR

DE-52-01B-07302012      SW6010B 2012/08/03 12:52:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:35:00
NONE            MICROBAC        QUANT   L12080096-16    21.93   1.355   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 35.8            TRG     Yes     Y       =                       Y
N       2.36    4.73    4.73    mg/kg   mg/kg
        DUSR

DE-53-01A-07302012      SW6010B 2012/08/03 12:32:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:33:00
NONE            MICROBAC        QUANT   L12080096-12    31.27   1.416   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 26.9            TRG     Yes     Y       =                       Y
N       2.57    5.14    5.14    mg/kg   mg/kg
        DUSR

DE-53-01B-07302012      SW6010B 2012/08/03 12:35:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:33:00
NONE            MICROBAC        QUANT   L12080096-13    27.0    1.337   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 28.5            TRG     Yes     Y       =                       Y
N       2.56    5.12    5.12    mg/kg   mg/kg
        DUSR

DE-53-01C-07302012      SW6010B 2012/08/03 12:39:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:34:00
NONE            MICROBAC        QUANT   L12080096-14    19.52   1.352   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 24.6            TRG     Yes     Y       =                       Y
N       2.30    4.60    4.60    mg/kg   mg/kg
        DUSR

DE-54-01A-07302012      SW6010B 2012/08/03 12:21:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:31:00
NONE            MICROBAC        QUANT   L12080096-09    29.89   1.371   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 15.0            TRG     Yes     Y       =                       Y
N       2.60    5.20    5.20    mg/kg   mg/kg
        DUSR

DE-54-01B-07302012      SW6010B 2012/08/03 12:25:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:32:00
NONE            MICROBAC        QUANT   L12080096-10    20.47   1.334   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 8.45            TRG     Yes     Y       =                       Y
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N       2.36    4.71    4.71    mg/kg   mg/kg
        DUSR

DE-54-01C-07302012      SW6010B 2012/08/03 12:28:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:33:00
NONE            MICROBAC        QUANT   L12080096-11    20.88   1.404   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 9.89            TRG     Yes     Y       =                       Y
N       2.25    4.50    4.50    mg/kg   mg/kg
        DUSR

DE-55-01A-07302012      SW6010B 2012/08/03 12:00:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:29:00
NONE            MICROBAC        QUANT   L12080096-05    19.24   1.406   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 20.0            TRG     Yes     Y       =                       Y
N       2.20    4.40    4.40    mg/kg   mg/kg
        DUSR

DE-55-01B-07302012      SW6010B 2012/08/03 12:11:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:30:00
NONE            MICROBAC        QUANT   L12080096-06    13.53   1.389   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 37.1            TRG     Yes     Y       =                       Y
N       2.08    4.16    4.16    mg/kg   mg/kg
        DUSR

DE-55-01C-07302012      SW6010B 2012/08/03 12:14:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:30:00
NONE            MICROBAC        QUANT   L12080096-07    2.49    1.366   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 7.13            TRG     Yes     Y       =                       Y
N       1.88    3.75    3.75    mg/kg   mg/kg
        DUSR

DE-55-01D-07302012      SW6010B 2012/08/03 12:18:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:31:00
NONE            MICROBAC        QUANT   L12080096-08    4.71    1.392   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 2.52            TRG     Yes     Y       J       J       J       Y
N       1.88    3.77    3.77    mg/kg   mg/kg
        DUSR

DE-56-01A-07302012      SW6010B 2012/08/03 11:36:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:27:00
NONE            MICROBAC        QUANT   L12080096-01    26.69   1.413   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 18.5            TRG     Yes     Y       =                       Y
N       2.41    4.83    4.83    mg/kg   mg/kg
        DUSR

DE-56-01B-07302012      SW6010B 2012/08/03 11:50:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:27:00
NONE            MICROBAC        QUANT   L12080096-02    21.27   1.348   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 19.2            TRG     Yes     Y       =                       Y
N       2.36    4.71    4.71    mg/kg   mg/kg
        DUSR

DE-56-01D-07302012      SW6010B 2012/08/03 11:57:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:29:00
NONE            MICROBAC        QUANT   L12080096-04    7.54    1.497   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 4.18            TRG     Yes     Y       =                       Y
N       1.81    3.61    3.61    mg/kg   mg/kg
        DUSR
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DE-57-01A-07312012      SW6010B 2012/08/03 15:58:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-46    7.84    1.484   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 12.7            TRG     Yes     Y       =                       Y
N       1.83    3.66    3.66    mg/kg   mg/kg
        DUSR

DE-57-01A-07312012      SW6010B 2012/08/03 15:58:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-46    7.84    1.484   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.53            TRG     Yes     Y       =                       Y
N       0.183   0.366   0.366   mg/kg   mg/kg
        DUSR

DE-57-01B-07312012      SW6010B 2012/08/03 16:02:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-47    10.89   1.344   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 16.9            TRG     Yes     Y       =                       Y
N       2.09    4.17    4.17    mg/kg   mg/kg
        DUSR

DE-57-01B-07312012      SW6010B 2012/08/03 16:02:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-47    10.89   1.344   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.39            TRG     Yes     Y       =                       Y
N       0.209   0.417   0.417   mg/kg   mg/kg
        DUSR

DE-57-01C-07312012      SW6010B 2012/08/03 15:23:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-48    7.72    1.456   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 5.33            TRG     Yes     Y       =                       Y
N       1.86    3.72    3.72    mg/kg   mg/kg
        DUSR

DE-57-01C-07312012      SW6010B 2012/08/03 15:23:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-48    7.72    1.456   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.295           TRG     Yes     Y       J       J       J       Y
N       0.186   0.372   0.372   mg/kg   mg/kg
        DUSR

DE-57-01C-07312012 MSDSD        SW6010B 2012/08/03 15:30:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:15:00
NONE            MICROBAC        QUANT   L12080096-50    7.72    1.445   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 12.3            SC      Yes     Y       =                       Y
N       1.87    3.75    3.75    mg/kg   mg/kg
        DUSR                                            4.915521978021
8.125973503048  12.3    93.6    2.02    80      120     20

DE-57-01C-07312012 MSDSD        SW6010B 2012/08/03 15:30:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:15:00
NONE            MICROBAC        QUANT   L12080096-50    7.72    1.445   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.13            SC      Yes     Y       =                       Y
N       0.187   0.375   0.375   mg/kg   mg/kg
        DUSR                                            .2723214285714
1.015746687881  1.13    89.3    5.55    80      120     20
```

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DE-57-01C-07312012 MSMS SW6010B 2012/08/03 15:27:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:15:00
NONE            MICROBAC        QUANT   L12080096-49    7.72    1.328   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 12.1            SC      Yes     Y       =                       Y
N       2.04    4.08    4.08    mg/kg   mg/kg
        DUSR            4.915521978021  8.841891349326  12.1    83.0
                                80      120     20
DE-57-01C-07312012 MSMS SW6010B 2012/08/03 15:27:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:15:00
NONE            MICROBAC        QUANT   L12080096-49    7.72    1.328   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.20            SC      Yes     Y       =                       Y
N       0.204   0.408   0.408   mg/kg   mg/kg
        DUSR            .2723214285714  1.105236418665  1.20    88.4
                                80      120     20
DE-57-03D-07312012      SW6010B 2012/08/03 15:34:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-51    8.31    1.405   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 4.24            TRG     Yes     Y       =                       Y
N       1.94    3.88    3.88    mg/kg   mg/kg
        DUSR

DE-57-03D-07312012      SW6010B 2012/08/03 15:34:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-51    8.31    1.405   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.201           TRG     Yes     Y       J       J       J       Y
N       0.194   0.388   0.388   mg/kg   mg/kg
        DUSR

DE-58-01A-07312012      SW6010B 2012/08/03 14:07:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:58:00
NONE            MICROBAC        QUANT   L12080096-31    13.71   1.409   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 43.8            TRG     Yes     Y       =                       Y
N       2.06    4.11    4.11    mg/kg   mg/kg
        DUSR

DE-58-01A-07312012      SW6010B 2012/08/03 14:07:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:58:00
NONE            MICROBAC        QUANT   L12080096-31    13.71   1.409   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.28            TRG     Yes     Y       =                       Y
N       0.206   0.411   0.411   mg/kg   mg/kg
        DUSR

DE-58-01B-07312012      SW6010B 2012/08/03 14:11:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:59:00
NONE            MICROBAC        QUANT   L12080096-32    13.06   1.352   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 42.5            TRG     Yes     Y       =                       Y
N       2.13    4.25    4.25    mg/kg   mg/kg
        DUSR

DE-58-01B-07312012      SW6010B 2012/08/03 14:11:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:59:00
NONE            MICROBAC        QUANT   L12080096-32    13.06   1.352   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.21            TRG     Yes     Y       =                       Y
N       0.213   0.425   0.425   mg/kg   mg/kg
        DUSR

DE-58-01C-07312012      SW6010B 2012/08/03 14:14:00     T       NA
```

```
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:00:00
NONE            MICROBAC        QUANT   L12080096-33    10.33   1.417   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 53.5            TRG     Yes     Y       =                       Y
N       1.97    3.94    3.94    mg/kg   mg/kg
        DUSR

DE-58-01C-07312012      SW6010B 2012/08/03 14:14:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:00:00
NONE            MICROBAC        QUANT   L12080096-33    10.33   1.417   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.10            TRG     Yes     Y       =                       Y
N       0.197   0.394   0.394   mg/kg   mg/kg
        DUSR

DE56-01C-07302012       SW6010B 2012/08/03 11:53:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 08:28:00
NONE            MICROBAC        QUANT   L12080096-03    11.54   1.466   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 4.62            TRG     Yes     Y       =                       Y
N       1.93    3.86    3.86    mg/kg   mg/kg
        DUSR

DUP-SOIL-07312012-01    SW6010B 2012/08/03 15:37:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-52    26.17   1.345   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 16.7            TRG     Yes     Y       =                       Y
N       2.52    5.04    5.04    mg/kg   mg/kg
        DUSR

DUP-SOIL-07312012-01    SW6010B 2012/08/03 15:37:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-52    26.17   1.345   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 15.2            TRG     Yes     Y       =       J       J       Y
N       0.252   0.504   0.504   mg/kg   mg/kg
        DUSR

DUP-SOIL-07312012-02    SW6010B 2012/08/03 16:05:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-53    12.05   1.427   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 36.4            TRG     Yes     Y       =                       Y
N       1.99    3.98    3.98    mg/kg   mg/kg
        DUSR

DUP-SOIL-07312012-02    SW6010B 2012/08/03 16:05:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-53    12.05   1.427   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 42.7            TRG     Yes     Y       =                       Y
N       0.199   0.398   0.398   mg/kg   mg/kg
        DUSR

DUP-SOIL-07312012-03    SW6010B 2012/08/03 16:09:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-54    8.53    1.385   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 17.7            TRG     Yes     Y       =                       Y
N       1.97    3.95    3.95    mg/kg   mg/kg
        DUSR

DUP-SOIL-07312012-03    SW6010B 2012/08/03 16:09:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-54    8.53    1.385   g
```

```
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 28.6            TRG     Yes     Y       =                       Y
N       0.197   0.395   0.395   mg/kg   mg/kg
        DUSR

DUP-SOIL-07312012-04    SW6010B 2012/08/03 16:12:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-55    7.45    1.383   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 10.1            TRG     Yes     Y       =                       Y
N       1.95    3.91    3.91    mg/kg   mg/kg
        DUSR

DUP-SOIL-07312012-04    SW6010B 2012/08/03 16:12:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-55    7.45    1.383   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.34            TRG     Yes     Y       =                       Y
N       0.195   0.391   0.391   mg/kg   mg/kg
        DUSR

DUP-SOIL-07312012-05    SW6010B 2012/08/03 16:16:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-56    11.35   1.366   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 18.4            TRG     Yes     Y       =                       Y
N       2.06    4.13    4.13    mg/kg   mg/kg
        DUSR

DUP-SOIL-07312012-05    SW6010B 2012/08/03 16:16:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/03 09:26:00
NONE            MICROBAC        QUANT   L12080096-56    11.35   1.366   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 1.46            TRG     Yes     Y       =                       Y
N       0.206   0.413   0.413   mg/kg   mg/kg
        DUSR

DUP-SOIL-08022012-06    SW6010B 2012/08/07 19:24:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-19    5.37    1.428   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 11.4            TRG     Yes     Y       =                       Y
N       1.85    3.70    3.70    mg/kg   mg/kg
        DUSR

DUP-SOIL-08022012-06    SW6010B 2012/08/07 19:24:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-19    5.37    1.428   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.185   0.185   0.370   mg/kg   mg/kg
        DUSR

DUP-SOIL-08022012-07    SW6010B 2012/08/07 19:45:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-20    9.34    1.371   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 3.73            TRG     Yes     Y       J       J       J       Y
N       2.01    4.02    4.02    mg/kg   mg/kg
        DUSR

DUP-SOIL-08022012-07    SW6010B 2012/08/07 19:45:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 08:15:00
NONE            MICROBAC        QUANT   L12080188-20    9.34    1.371   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM 0.601           TRG     Yes     Y       =                       Y
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```
N       0.201   0.402   0.402   mg/kg   mg/kg
        DUSR

DUP-SOIL-08022012-08    SW6010B 2012/08/08 11:49:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-47    6.7     1.344   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 7.68            TRG     Yes     Y       =                       Y
N       1.99    3.99    3.99    mg/kg   mg/kg
        DUSR

DUP-SOIL-08022012-08    SW6010B 2012/08/08 11:49:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-47    6.7     1.344   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.199   0.199   0.399   mg/kg   mg/kg
        DUSR

DUP-SOIL-08022012-09    SW6010B 2012/08/08 12:24:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-55    7.73    1.489   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 3.10            TRG     Yes     Y       J       J       J       Y
N       1.82    3.64    3.64    mg/kg   mg/kg
        DUSR

DUP-SOIL-08022012-09    SW6010B 2012/08/08 12:24:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/07 12:50:00
NONE            MICROBAC        QUANT   L12080188-55    7.73    1.489   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.182   0.182   0.364   mg/kg   mg/kg
        DUSR

DUP-SOIL-08022012-10    SW6010B 2012/08/08 20:19:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-63    11.14   1.329   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-38-2
ARSENIC 23.7            TRG     Yes     Y       =                       Y
N       2.12    4.23    4.23    mg/kg   mg/kg
        DUSR

DUP-SOIL-08022012-10    SW6010B 2012/08/08 20:19:00     T       NA
INITIAL SO      LB      DRY             1       SW3051A 2012/08/08 08:03:00
NONE            MICROBAC        QUANT   L12080188-63    11.14   1.329   g
PDM     ICP-THERMO1             NONE    50.0    ml      7440-43-9
CADMIUM                 TRG     Yes     N       U       U       U       Y
N       0.212   0.212   0.423   mg/kg   mg/kg
        DUSR

EB-SOIL-07302012-01     SW6010B 2012/08/07 16:16:00     T       NA
INITIAL WA      LB      WET             1       SW3005A 2012/08/06 07:14:00
NONE            MICROBAC        QUANT   L12080096-27    0.0     50      ml
KHR     PE-ICP2         NONE    50.0    ml      7440-38-2       ARSENIC
        TRG     Yes     N       U       U       U       Y       N       0.0500
0.05    0.100   mg/l    mg/l                                            DUSR


EB-SOIL-07302012-01     SW6010B 2012/08/07 16:16:00     T       NA
INITIAL WA      LB      WET             1       SW3005A 2012/08/06 07:14:00
NONE            MICROBAC        QUANT   L12080096-27    0.0     50      ml
KHR     PE-ICP2         NONE    50.0    ml      7440-43-9       CADMIUM
        TRG     Yes     N       U       U       U       Y       N
0.00500 0.005   0.0100  mg/l    mg/l
DUSR
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EB-SOIL-07302012-02     SW6010B 2012/08/07 16:23:00     T       NA
INITIAL WA      LB      WET             1       SW3005A 2012/08/06 07:14:00
NONE            MICROBAC        QUANT   L12080096-28    0.0     50      ml
KHR     PE-ICP2         NONE    50.0    ml      7440-38-2       ARSENIC
        TRG     Yes     N       U       U       U       Y       N       0.0500
0.05    0.100   mg/l    mg/l                                            DUSR


EB-SOIL-07302012-02     SW6010B 2012/08/07 16:23:00     T       NA
INITIAL WA      LB      WET             1       SW3005A 2012/08/06 07:14:00
NONE            MICROBAC        QUANT   L12080096-28    0.0     50      ml
KHR     PE-ICP2         NONE    50.0    ml      7440-43-9       CADMIUM
        TRG     Yes     N       U       U       U       Y       N
0.00500 0.005   0.0100  mg/l    mg/l
DUSR

EB-SOIL-07302012-03     SW6010B 2012/08/07 16:30:00     T       NA
INITIAL WA      LB      WET             1       SW3005A 2012/08/06 07:14:00
NONE            MICROBAC        QUANT   L12080096-29    0.0     50      ml
KHR     PE-ICP2         NONE    50.0    ml      7440-38-2       ARSENIC
        TRG     Yes     N       U       U       U       Y       N       0.0500
0.05    0.100   mg/l    mg/l                                            DUSR


EB-SOIL-07302012-03     SW6010B 2012/08/07 16:30:00     T       NA
INITIAL WA      LB      WET             1       SW3005A 2012/08/06 07:14:00
NONE            MICROBAC        QUANT   L12080096-29    0.0     50      ml
KHR     PE-ICP2         NONE    50.0    ml      7440-43-9       CADMIUM
        TRG     Yes     N       U       U       U       Y       N
0.00500 0.005   0.0100  mg/l    mg/l
DUSR

EB-SOIL-07302012-04     SW6010B 2012/08/07 16:37:00     T       NA
INITIAL WA      LB      WET             1       SW3005A 2012/08/06 07:14:00
NONE            MICROBAC        QUANT   L12080096-30    0.0     50      ml
KHR     PE-ICP2         NONE    50.0    ml      7440-38-2       ARSENIC
        TRG     Yes     N       U       U       U       Y       N       0.0500
0.05    0.100   mg/l    mg/l                                            DUSR


EB-SOIL-07302012-04     SW6010B 2012/08/07 16:37:00     T       NA
INITIAL WA      LB      WET             1       SW3005A 2012/08/06 07:14:00
NONE            MICROBAC        QUANT   L12080096-30    0.0     50      ml
KHR     PE-ICP2         NONE    50.0    ml      7440-43-9       CADMIUM
        TRG     Yes     N       U       U       U       Y       N
0.00500 0.005   0.0100  mg/l    mg/l
DUSR

EB-SOIL-07312012        SW6010B 2012/08/07 16:43:00     T       NA
INITIAL WA      LB      WET             1       SW3005A 2012/08/06 07:14:00
NONE            MICROBAC        QUANT   L12080096-42    0.0     50      ml
KHR     PE-ICP2         NONE    50.0    ml      7440-38-2       ARSENIC
        TRG     Yes     N       U       U       U       Y       N       0.0500
0.05    0.100   mg/l    mg/l                                            DUSR


EB-SOIL-07312012        SW6010B 2012/08/07 16:43:00     T       NA
INITIAL WA      LB      WET             1       SW3005A 2012/08/06 07:14:00
NONE            MICROBAC        QUANT   L12080096-42    0.0     50      ml
KHR     PE-ICP2         NONE    50.0    ml      7440-43-9       CADMIUM
        TRG     Yes     N       U       U       U       Y       N
0.00500 0.005   0.0100  mg/l    mg/l
DUSR
```

Attachment 3
Data Quality Evaluation Report

Data Quality Evaluation for Gorham Street Soil Investigation, Dow Waterloo

PREPARED BY: CH2M HILL

DATE: December 2012

Introduction

The objective of this data quality evaluation (DQE) report is to assess the data quality of analytical results for soil samples collected from the former Hampshire Chemical Corporation (HCC) Dow Waterloo site in Waterloo, New York (HCC is a wholly owned subsidiary of The Dow Chemical Company). CH2M HILL collected samples July 30 through August 2, 2012. Guidance for this DQE report came from the *Quality Assurance Project Plan, RCRA Facility Investigation, Former Hampshire Chemical Corporation Facility, Waterloo, New York* (Waterloo QAPP, June 2010); *U.S. Environmental Protection Agency (USEPA) Contract Laboratory National Functional Guidelines (NFG) for Inorganic Data Review, October 2004;* individual method requirements; and, historical laboratory quality control limits.

The analytical results were evaluated using the criteria of precision, accuracy, representativeness, comparability and completeness (PARCC) as presented in the Dow Waterloo QAPP. This report is intended as a general data quality assessment designed to summarize data issues.

Analytical Data

This DQE report covers 100 soil samples, 10 field duplicates (FD) and 5 equipment blanks (EB). The samples were reported in two sample delivery groups identified as L12080096 and L12080188.

Samples were collected and delivered to Microbac Laboratory (MBLM) in Marietta, Ohio. The samples were analyzed by the method listed in Table 1.

TABLE 1
Analytical Parameters
Gorham St Soil Investigation, Dow Waterloo

Parameter	Method	Laboratory
Arsenic and Cadmium	SW6010B	MBLM

The sample delivery groups were assessed by reviewing the following: (1) the chain-of- custody documentation; (2) holding-time compliance; (3) initial and continuing calibration criteria; (4) method blanks and field blanks; (5) laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries; (6) matrix spike/matrix spike duplicate (MS/MSD) recoveries; (7) FD precision; and (8) the required quality control (QC) samples at the specified frequencies.

Data flags were assigned according to the Waterloo QAPP. Multiple flags are routinely applied to specific sample method/matrix/analyte combinations, but there will only be one final flag. A final flag is applied to the data and is the most conservative of the applied validation flags. The final flag also includes matrix and blank sample impacts.

The data flags are those listed in the Waterloo QAPP and are defined below:

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- R = The sample result was rejected due to serious deficiencies in the ability to analyze the sample and meet the QC criteria. The presence or absence of the analyte could not be verified.
- U = The analyte was analyzed for but was not detected above the reported sample quantitation limit.
- UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Findings

The overall summaries of the data validation are contained in the following sections. Qualified data are presented in Table 2.

Holding Time and Preservation

All acceptance criteria were met.

Calibration

Initial and continuing calibration analyses were performed as required by the method. All acceptance criteria were met.

Method Blanks

Method blanks were analyzed at the required frequency and were free of contamination.

Field Blanks

EBs were collected, analyzed and were free of contamination.

Laboratory Control Samples

LCS/LCSDs were analyzed as required and met all accuracy and precision criteria.

Matrix Spike

MS/MSDs were analyzed as required and all accuracy and precision criteria were met with the following exceptions:

Arsenic and/or cadmium were recovered less than the lower control limits in a few MS/MSDs, indicating a possible low bias. The data were qualified as estimated detected results and flagged "J" in the associated parent samples. In addition, arsenic and cadmium were recovered greater than the upper control limits in a few MS/MSDs, indicating a possible high bias. The data were qualified as estimated and flagged "J" in the respective parent samples.

Post Digestion Spikes

Post digestion spikes were analyzed as required and all accuracy criteria were met.

Serial Dilutions

Serial dilutions were analyzed according to methods requiring their use and all acceptance criteria were met.

Field Duplicates

FDs were collected and analyzed at the required frequency and all precision criteria were met with the following exception:

The relative percent difference (RPD) for cadmium exceeded criteria in FD pair DE-45-01A-07312012/DUP-SOIL-07312012-01. The data were qualified as estimated and flagged "J" in the FD pair.

Interference Check Standards

Interference check standards were analyzed as required and all accuracy criteria were met.

Chain of Custody

Required procedures were followed and were free of errors.

Overall Assessment

The goal of this assessment is to demonstrate that a sufficient number of representative samples were collected and the resulting analytical data can be used to support the decision making process. The following summary highlights the PARCC findings for the above-defined events:

Precision of the data was verified through the review of the field and laboratory data quality indicators that include FD, LCS/LCSD, MS/MSD, and serial dilution RPDs. Precision was generally acceptable with the exception of cadmium which was qualified as estimated in two samples due to FD RPD issues. Data users should consider the impact to any result that is qualified as estimated as it may contain a bias which could affect the decision making process.

Accuracy of the data was verified through the review of the calibration data, LCS/LCSD, MS/MSD, post digestion spike and interference check standard, as well as the evaluation of method/field/calibration blank data. Accuracy was generally acceptable with a few compounds being qualified as estimated detected results due to MS/MSD spike issues. All method/field/calibration blank data were free of contamination.

Representativeness of the data was verified through the sample's collection, storage and preservation procedures and the verification of holding-time compliance. The lab did not note any

issues with collection, storage or preservation procedures. All data were reported from analyses within the USEPA-recommended holding time.

Comparability of the data was ensured through the use of standard USEPA analytical procedures and standard units for reporting. Results obtained are comparable to industry standards in that the collection and analytical techniques followed approved, documented procedures.

Completeness is a measure of the number of valid measurements obtained in relation to the total number of measurements planned. Completeness is expressed as the percentage of valid or usable measurements compared to planned measurements. Valid data are defined as all data that are not rejected for project use. All data were considered valid. The completeness goal of 95 percent was met for all analyte/method combinations.

Table 2
Qualified Data
Gorham St Soil Investigation, Dow Waterloo

Sample ID	Method	Analyte	Units	Final Result	Final Flag	Reason
DE-38-01E-08022012	SW6010B	Arsenic	mg/Kg	4.55	J	SD<LCL
DE-38-01E-08022012	SW6010B	Cadmium	mg/Kg	0.765	J	MS>UCL
DE-45-01A-07312012	SW6010B	Cadmium	mg/Kg	26.7	J	FD>RPD
DE-45-02C-07312012	SW6010B	Arsenic	mg/Kg	16.9	J	MS>UCL, SD>UCL
DE-46-01A-08012012	SW6010B	Arsenic	mg/Kg	23.8	J	MS<LCL
DE-46-01B-08012012	SW6010B	Cadmium	mg/Kg	2.2	J	MS<LCL, SD<LCL
DUP-SOIL-07312012-01	SW6010B	Cadmium	mg/Kg	15.2	J	FD>RPD

Validation Reasons:

FD>RPD	The relative percent difference exceeded criteria in the FD pair
MS<LCL	The matrix spike recovered less than the lower control limit
MS>UCL	The matrix spike recovered greater than the upper control limit
SD<LCL	The matrix spike duplicate recovered less than the lower control limit
SD>UCL	The matrix spike duplicate recovered greater than the upper control limit