REPORT

Analytical Data Summary
2007 and 2008 Sampling Events
Former Inland Fisher Guide Facility and Ley Creek Deferred Media

General Motors Corporation
Syracuse, New York

March 2009

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Syracuse, New York

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March 2009

O'BRIEN & GERE

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A February 6 and October 23, 2008 CRA Data Quality Assessments and Validations – Floodplain Soil Sampling
B August 19, 2008 CRA Data Quality Assessment and Validation – Additional Wetland Sediment Sampling
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1. Introduction

The General Motors Corporation (GM) and the New York State Department of Environmental Conservation (NYSDEC) entered into an Administrative Order on Consent (Index # D-7-0001-97-06; Order) on September 25, 1997, for the development and implementation of a Remedial Investigation/Feasibility Study (RI/FS) at the Former Inland Fisher Guide (IFG) Facility and the Ley Creek Deferred Media (collectively designated the site) located in the Town of Salina, Onondaga County, New York. The location of the site is presented on Figure 1.

The Former IFG Facility is classified as a Class 2 site on NYSDEC's Registry of Inactive Hazardous Waste Disposal Sites (Site No. 7-34-057). The Ley Creek Deferred Media include ground water underlying the Ley Creek PCB Dredgings site, which is also a Class 2 site on NYSDEC's Registry (Site No. 7-34-044), as well as surface water and sediment in Ley Creek between Townline Road and Route 11. The Former IFG Facility and the Ley Creek PCB Dredgings site were also designated as sub-sites of the Onondaga Lake National Priorities List (NPL) site by NYSDEC and United States Environmental Protection Agency (USEPA).

A Preliminary RI/FS Report for the site (O'Brien & Gere 1997) was submitted to NYSDEC, consistent with the requirements of the Order, on October 24, 1997. As a result of NYSDEC's comments regarding additional data needs, a Supplemental RI/FS was conducted at the site. Consistent with the NYSDEC-approved Final Supplemental RI/FS Work Plan (Final Work Plan) (O'Brien & Gere 1999) the Supplemental RI was performed in November 1999. A Supplemental RI (SRI) Report for the site (O'Brien & Gere 2000) was submitted to NYSDEC on April 20, 2000. A Supplemental RI Addendum Work Plan was submitted on April 28, 2000 (Hartnett 2000a). NYSDEC approved the Supplemental RI Addendum Work Plan on May 5, 2000 (Benjamin 2000a). The Supplemental RI Addendum Work Plan was amended in letters dated June 30, 2000 (Hartnett 2000b) and August 8, 2000 (Hartnett 2000c). These amendments were approved by NYSDEC in letters dated July 12, 2000 and August 15, 2000 (Benjamin 2000b, 2000c), respectively. Findings of the Supplemental RI Addendum were reported in letters dated October 27, 2000, and January 11, 2001 (Hartnett 2000d, 2001a). Following the Supplemental RI Addendum, additional data needs were identified in a letter dated March 2, 2001 (Hartnett 2001b). The proposed additional sampling was approved by NYSDEC in a letter dated April 12, 2001 (Benjamin 2001).

In a letter dated November 20, 2002 (Benjamin 2002b) from NYSDEC, GM received comments on the April 2000 SRI Report, as well as the addenda investigation reports, which required additional sampling to be performed. As a result, GM submitted work plans for additional sampling events associated with the floodplain, National Grid (formerly Niagara Mohawk) wetland sediment, and Ley Creek biota and sediment. GM performed these additional sampling events in accordance with NYSDEC-approved work plans as described further in Sections 2, 3, and 4 of this report.

In accordance with Section IIIc of the Order, this document is the Analytical Data Summary Report for samples collected as a result of implementing the March 8, 2007 work plan for additional floodplain sampling, the October 15, 2007 work plan for additional wetland sampling, and the May 20, 2008 work plan for Ley Creek biota and sediment sampling.

2. Ley Creek Floodplain Sampling and Analysis

2.1. Background

Prior to implementation of the March 8, 2007 Work Plan for additional floodplain sampling, portions of the floodplain had been sampled on three separate occasions by GM, as described below.

- *October 2003.* GM collected soil samples in the floodplain along both sides of Ley Creek from approximately the Route 11 bridge to the Town of Salina's Highway Department Garage, in response to the Department's request contained in its November 20, 2002 letter concerning the April 2000 SRI Report. During this sampling event, forty-one samples were collected from nine boring locations up to 10 feet below grade and analyzed for polychlorinated biphenyls (PCBs). These sampling efforts were conducted consistent with GM's letter work plan dated May 2, 2003 (Hartnett 2003a) that was approved by the Department in its letter dated May 13, 2003 (Benjamin 2003a). Results from this sampling event were presented to the Department in a letter from GM dated February 20, 2004 (Hartnett 2004a).

- *June 2004.* GM collected additional soil samples in the floodplain in the vicinity of the 2003 sample location LCFP-03N that exhibited PCB concentrations above the Department's Technical and Administrative Guidance Manual (TAGM) #4046 recommended soil cleanup objectives for PCBs in surface soil and/or subsurface soil. During this sampling event, fifteen soil samples were collected from eight locations up to 2 feet below grade and analyzed for PCBs. These sampling efforts were conducted consistent with GM's letter work plan dated March 31, 2004 (Hartnett 2004c) that was approved by the Department in its letter dated April 14, 2004 (Benjamin 2004). Results from this sampling event were presented to the Department in a letter from GM dated September 8, 2004 (Hartnett 2004d).

- *November 2005*. This sampling event was focused on the area surrounding the 2003 sample location LCFP-03N and 2004 sample locations LCFP-03W and LCFP-03E, which exhibited PCB concentrations above TAGM #4046 recommended soil cleanup objectives for PCBs in surface soil and/or subsurface soil. The Department-approved approach was to visually delineate the extent of PCB impacted material, which was thought to be characterized by dusky brown material exhibiting a petroleum odor, and then to collect samples from soil without visual and olfactory indicators. Five composite soil samples were collected (B7, B13, B14, B15, and B16) from 0 to 4 feet below grade. PCBs were detected in four of the samples at concentrations above the TAGM screening value of 10 mg/kg for subsurface soil. It was therefore determined that there is no direct correlation between visual and olfactory indicators and elevated PCB concentrations in this area. Furthermore, the extent of PCB impacted soil was not fully delineated to the north, east, and west. Results from this sampling event were presented to the Department in a letter from GM dated March 8, 2007 (Hartnett 2007). This letter also outlined the scope of activities for the August 2007 sampling event.

2.2. 2007 Floodplain Sampling

Floodplain sampling was performed on August 16, 2007 in accordance with the approved March 8, 2007 scope for additional floodplain samples. Field activities consisted of the collection of soil samples from fifteen locations (B17 through B31). Sample locations were identified using a Trimble Pro XRS Global Positioning System (GPS) Unit. Soil borings were installed using a direct push technique. Soil samples were collected continuously to refusal, with depths ranging from 4 to 11 feet below grade. Samples for laboratory analysis were taken at 2-foot intervals with a lined macrocore sampler. Sample locations are presented on Figure 2.

Fifty-two samples were collected, plus quality assurance/quality control (QA/QC) samples, which were collected at a frequency of 1 per 20 samples. Samples were submitted to H2M Laboratories (H2M) in Melville, New York for analysis of PCBs using EPA Method 8082 and percent moisture using EPA Method 160.3.

Upon receipt of the samples, H2M extracted all samples. In accordance with the scope for additional sampling, some samples were analyzed immediately while others were placed on hold until the results from the first round of analyses were available. The following sample locations (all intervals) were analyzed for PCBs in the first round: B17, B20, B23, B26, and B29, as well as a field duplicate (corresponding to the sample from location B17, from 2 to 4 feet bgs). Based on the preliminary data for these samples, a second round of surface soil samples from locations B18, B21, and B24 were analyzed for PCBs. Based on preliminary data for these samples, a third round of surface soil samples from locations B19 and B25 were analyzed for PCBs. Upon receipt of the final validated data, an additional round of samples from locations B27, B30, and B31 were analyzed for PCBs. Floodplain sample analyses are summarized in Table 1.

2.3. Analytical Data

Analytical data generated from the August 2007 floodplain sampling event, including validation results, are submitted with this report. Discussion and interpretation of this data will be presented under separate cover. The analytical data are summarized in Table 2.

2.4. Data Validation

Conestoga-Rovers & Associates provided validation of the data from H2M Laboratories in Melville, New York. The data validation report is included as Exhibit A.

3. Wetland Sediment Sampling and Analysis

3.1. Background

Prior to implementation of the October 15, 2007 Work Plan for additional wetland sampling, the wetland area on the National Grid property adjacent to the Former IFG Facility had been sampled on five occasions, as outlined below.

- National Grid collected samples in 1998 and 2000 as part of a preliminary site assessment (Haley & Aldrich 2000).

- *May 2002*. GM collected soil and surface water samples on the National Grid property as part of the Former Landfill IRM. During this sampling event, nine soil samples were collected from five locations and two surface water samples were collected from two locations. These wetland sampling efforts were described in GM's letters of March 14, 2002 (Hartnett 2002a) and May 14, 2002 (Hartnett 2002b), which were approved by NYSDEC in a letter dated March 18, 2002 (Benjamin 2002a) and a conversation between Clare Leary of O'Brien & Gere and Susan Benjamin of NYSDEC on May 2, 2002.

- *October 2003.* GM performed additional sampling in the northern portion of the National Grid property, collecting twelve samples from six locations. These wetland sampling efforts were described in GM's letter work plan dated July 10, 2003 (Hartnett 2003b), which was approved by NYSDEC on August 4, 2003 (Benjamin 2003b).

- *June 2004.* GM collected twenty-four additional samples from nine locations. This work was performed in accordance with GM's letter work plan submitted to NYSDEC on March 30, 2004 (Hartnett 2004b). NYSDEC approved the work plan on April 14, 2004 (Benjamin 2004). These sampling efforts were described in GM's letter of June 13, 2005 (Hartnett 2005a).

- *May 2006*. GM collected thirty-six samples from eleven locations at multiple depth intervals. This work was performed in accordance with the letter work plan submitted to NYSDEC on October 31, 2005 (Hartnett 2005b). NYSDEC approved the work plan on November 21, 2005 (Edwards 2005).

3.2. June 2008 Wetland Sediment Sampling

O'Brien & Gere conducted wetland sediment sampling efforts on June 10 through 12, 2008 in accordance with the letter work plan submitted to NYSDEC on October 15, 2007 (Hartnett 2007b). NYSDEC approved the work plan in a letter dated November 30, 2007 (Edwards 2007). Access agreements were secured between National Grid and GM, and Onondaga County and GM prior to the sampling event. A representative of NYSDEC attended the field effort on June 11, 2008.

Sampling methods utilized for this effort consisted of:

- Dedicated core barrel push sampling method – approximate 2-inch and 4-inch diameter Lexan tubing was manually pushed into the wetland sediment to the target interval depths (or refusal), capped and retrieved
- Shovel method – used to collect surface interval (0" to 6" below surface). A decontaminated stainless steel shovel was used to cut an approximate 10-inch diameter by 6-inch deep plug of wetland sediment
- Auger method – a decontaminated stainless steel dutch auger was used to collect deeper samples (samples that could not be retrieved with the core barrel push sampling method typically greater than 24 inches below surface)
- A bucket auger was used to remove the top 30 inches of wetland sediment when collecting samples from three locations at the 30 to 42 inch interval.

Sampling areas included the drainage ditch located on the south side of Factory Avenue and the state-regulated wetland area located adjacent to and south of the ditch and west of the National Grid access road. The sample locations are presented on the attached Figure 3. Wooden stakes and orange surveyor's ribbon were marked and placed at each sample location. The sample locations were subsequently recorded using a hand-held Trimble GPS unit with sub-meter accuracy.

A total of thirty two sediment samples (including QA/QC samples) were collected from eight locations at multiple depth intervals and analyzed for PCBs (NYSDEC ASP Method 8082), site-related metals (arsenic, chromium, copper, lead, nickel, zinc; NYSDEC Method 6010B), percent solids and total organic carbon (TOC; Lloyd Kahn Method).

3.3. Analytical Data

Analytical data generated from the June 2008 wetland sampling event, including validation results, are submitted with this report. Discussion and interpretation of this data will be presented under separate cover. The analytical data are summarized in Table 3. As requested by NYSDEC in its letter dated November 30, 2007, Appendix A presents a compilation of all existing wetland data collected to date and a data presentation figure including all depth intervals.

3.4. Data Validation

Conestoga-Rovers & Associates provided validation of the data from H2M Laboratories in Melville, New York. The data validation report is included as Exhibit B.

4. Ley Creek Biota and Sediment Sampling and Analysis

4.1. Background

The objective of the Ley Creek biota and sediment sampling was to collect additional data for use in the Baseline Ecological Risk Assessment (BERA) and to satisfy data requirements for the Human Health Risk Assessment (HHRA). Fish sampling was previously conducted in Ley Creek as part of the EDI Ley Creek Sampling Program in 1985 and the O'Brien & Gere Ley Creek Dredged Material Area Remedial Investigation in 1992. These data were provided as part of the SRI Report for the Site in April 2000 and in the BERA Work Plan (O'Brien & Gere 2001). From these studies, analytical results for biota indicated detectable concentrations of polychlorinated biphenyls (PCBs) present in sampled fish tissue. Because a significant amount of time has transpired since collection of these samples and no whole-body samples were analyzed, whole-body and filleted fish and crayfish tissue samples were collected. Sediment samples were also collected for chemical analysis.

4.2. June 2008 Ley Creek Biota Sampling

Sampling was conducted in Ley Creek from June 9 to June 13, 2008 in accordance with the May 20, 2008 Work Plan (Hartnett 2008). Biota samples were collected from the five reaches of Ley Creek: the Site Reach, the Downstream Reach, and three upstream reaches (South Branch, North Branch, and Sanders Creek). Figures 4 and 5 present the sample collection areas. A NYSDEC representative was present for two days of sampling during this event to observe and verify that sample collection efforts met parameters established for the BERA.

The primary method utilized for biota collection was backpack electro shocking. One biologist shouldered the backpack unit and traversed each reach while two additional biologists retrieved the stunned fish and crayfish with nets. When electro-shocking was not effective, a seine net was dragged across the creek. Seining was successful in collection of smaller fish species as well as crayfish. Additionally, nineteen minnow traps were placed throughout the five reaches to supplement the sample collection. The traps were checked twice daily during the sampling week.

Seventeen fish species and three crayfish species were collected during the sampling effort. An effort was made to collect the same species for each type of sample (whole-body and fillet) and each size class across the subject areas. The creek chub, white sucker, and brown bullhead were the only fish species submitted for analysis, as they were the most abundant in quantity and most dense in mass. All three crayfish species were utilized in order to retain enough mass for chemical analysis.

A total of forty six biota samples (including QA/QC samples) were collected from the five reaches of Ley Creek. Biota samples were analyzed for Total Analyte List (TAL) Metals (NYSDEC ASP Method 6010B, 7470A/7471A (mercury), 9010B/9014 or 9012 (cyanide)); methyl mercury (USEPA Method 1630); PCBs (NYSDEC ASP Method 8082); semivolatile organic compounds (SVOCs; NYSDEC ASP Method 8270C); percent moisture (USEPA Method 160.3); percent lipids (USEPA Method 3540C Soxhlet extraction)

4.3. June 2008 Ley Creek Sediment Sampling

Ley Creek sediment sampling was conducted from June 18 to June 26, 2008 in accordance with the May 20, 2008 Work Plan (Hartnett 2008). Samples were collected in depositional areas from a total of twenty one locations: six in the Site Reach, six in the Downstream Reach, and three in each of the three upstream reaches (South Branch, North Branch, and Sanders Creek). Figure 6 presents the sample locations. At each location, samples were collected from the 0 to 6 inch interval in order to characterize current fish exposure and nature and extent of affected sediment, and the 6 to 12 inch interval to characterize the nature and extent of affected sediment.

Several different methods were utilized for sediment sample collection. Sediment core samples were collected using 2 ¾ inch Lexan tubes driven to depth with a core hammer. Tubes were driven to refusal. Cores were removed from the Lexan tube using a PVC plunger. When sediment conditions did not allow for the use of the core sampler (6 of 21 inch depth locations), the 0 to 6 inch interval was sampled using either a stainless steel shovel or Eckman dredge, and the 6 to 12 inch interval was sampled using a stainless steel bucket auger. Sample volume requirements were attained from two core samples per location, or one to two shovel or Eckman samples and two bucket auger samples per location. Samples were placed in aluminum pans and visual and olfactory observations were recorded. The sample was then homogenized and transferred into labeled jars. The jars were then placed in a cooler with ice. General substrate conditions at each location were also recorded, along with water quality measurements (pH, temperature, dissolved oxygen, and conductivity) using a Horiba U-10. The GPS location and time of sampling were also recorded and photographs were taken.

A total of forty five sediment samples (including QA/QC samples) were collected from twenty one sampling locations at depths of 0 to 6 inches and 6 to 12 inches. Sediment samples were analyzed for TAL Metals (NYSDEC ASP Method 6010B, 7470A/7471A (mercury), 9010B/9014 or 9012 (cyanide)); methyl mercury (USEPA Method 1630); PCBs (NYSDEC ASP Method 8082); SVOCs (NYSDEC ASP Method 8270C); percent moisture (USEPA Method 160.3); TOC (Lloyd Kahn Method); and acid volatile sulfide/simultaneously extracted metals (AVS/SEM) bioavailability (USEPA Method 821-R-91-100).

4.4. Analytical Data

Analytical data generated from the June 2008 Ley Creek biota and sediment sampling event, including validation results, are submitted with this report. Discussion and interpretation of this data will be presented under separate cover. Analytical data for Ley Creek biota are presented in Tables 4 and 5. Analytical data for Ley Creek sediment are presented in Tables 6, 7, and 8.

4.5. Data Validation

Conestoga-Rovers & Associates provided validation of the data from Accutest Laboratories in Dayton, New Jersey. The data validation report is included as Exhibit C.

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O'Brien & Gere Engineers, Inc. *Supplemental Remedial Investigation; Former IFG Facility and Ley Creek Deferred Media*. April 2000.

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Table 1
General Motors Former IFG Facility
Syracuse, New York
August 2007 Floodplain PCB Sample Analysis Matrix

	Depth Intervel (ft)				
Location	0-2	2-4	4-6	6-8	8-10
Western Limit					
B17 (round 1)	**20* (5.0*)**	8.4* (5.8*)			
B18 (round 2)	**3.2 (2.8)**	Not Analyzed	Not Analyzed		
B19 (round 3)	0.11 (0.11)	Not Analyzed	Not Analyzed		
North Limit (1st Transect)					
B20 (round 1)	**13 (4.5*)**	<0.037 (<0.037*)			
B21 (round 2)	0.77 (0.73*)	Not Analyzed	Not Analyzed		
B22	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
North Limit (2nd Transect)					
B23 (round 1)	**16 (4.6*)**	**42 (4.1*)**			
B24 (round 2)	**3.4 (3.3*)**	0.050	Not Analyzed	Not Analyzed	
B25 (round 3)	0.24 (0.24*)	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
North Limit (3rd Transect)					
B26 (round 1)	**1.9 (0.98*)**	**17 (1.9*)**	0.17 (0.14*)		
B27	0.5*	0.043	Not Analyzed	Not Analyzed	
B28	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
Eastern Limit					
B29 (round 1)	**1.5 (0.78*)**	**61* (0.79*)**	**11* (3.8*)**	0.041* (0.041*)	
B30	Not Analyzed	Not Analyzed	**21***		
B31	Not Analyzed	Not Analyzed	6.2*		

***PCB Aroclor 1242**
Preliminary data in parenthesis
Bold indicates exceedance of TAGM 4046

Table 2

General Motors Former IFG Facility
Syracuse, New York
August 2007 Floodplain Sampling Event
PCB Data Summary

Chemical Name	CAS	Units	B17 Floodplain SO 8/16/2007 0 - 2 ft BGS	B17 Floodplain SO 8/16/2007 2 - 4 ft BGS	B18 Floodplain SO 8/16/2007 0 - 2 ft BGS	B19 Floodplain SO 8/16/2007 0 - 2 ft BGS	B20 Floodplain SO 8/16/2007 0 - 2 ft BGS	B20 Floodplain SO 8/16/2007 2 - 4 ft BGS	B21 Floodplain SO 8/16/2007 0 - 2 ft BGS
Aroclor-1016 (PCB-1016)	12674-11-2	mg/kg	0.043 U	0.037 U	0.041 U	0.037 U	0.039 U	0.037 U	0.035 U
Aroclor-1221 (PCB-1221)	11104-28-2	mg/kg	0.087 U	0.075 U	0.083 U	0.075 U	0.078 U	0.076 U	0.072 U
Aroclor-1232 (PCB-1232)	11141-16-5	mg/kg	0.043 U	0.037 U	0.041 U	0.037 U	0.039 U	0.037 U	0.035 U
Aroclor-1242 (PCB-1242)	53469-21-9	mg/kg	20	8.4	0.041 U	0.037 U	0.039 U	0.037 U	0.035 U
Aroclor-1248 (PCB-1248)	12672-29-6	mg/kg	0.043 U	0.037 U	3.2	0.11	13	0.037 U	0.77
Aroclor-1254 (PCB-1254)	11097-69-1	mg/kg	0.043 U	0.037 U	0.041 U	0.037 U	0.039 U	0.037 U	0.035 U
Aroclor-1260 (PCB-1260)	11096-82-5	mg/kg	0.043 U	0.037 U	0.041 U	0.037 U	0.039 U	0.037 U	0.035 U

Table 2

General Motors Former IFG Facility
Syracuse, New York
August 2007 Floodplain Sampling Event
PCB Data Summary

Chemical Name	CAS	Units	B23 Floodplain SO 8/16/2007 0 - 2 ft BGS	B23 Floodplain SO 8/16/2007 2 - 4 ft BGS	B24 Floodplain SO 8/16/2007 0 - 2 ft BGS	B24 Floodplain SO 8/16/2007 2 - 4 ft BGS	B25 Floodplain SO 8/16/2007 0 - 2 ft BGS	B26 Floodplain SO 8/16/2007 0 - 2 ft BGS	B26 Floodplain SO 8/16/2007 2 - 4 ft BGS
Aroclor-1016 (PCB-1016)	12674-11-2	mg/kg	0.038 U	0.035 U	0.036 U	0.034 U	0.038 U	0.04 U	0.039 U
Aroclor-1221 (PCB-1221)	11104-28-2	mg/kg	0.076 U	0.072 U	0.073 U	0.07 U	0.078 U	0.082 U	0.079 U
Aroclor-1232 (PCB-1232)	11141-16-5	mg/kg	0.038 U	0.035 U	0.036 U	0.034 U	0.038 U	0.04 U	0.039 U
Aroclor-1242 (PCB-1242)	53469-21-9	mg/kg	0.038 U	0.035 U	0.036 U	0.034 U	0.038 U	0.04 U	0.039 U
Aroclor-1248 (PCB-1248)	12672-29-6	mg/kg	16	42	3.4	0.05	0.24	1.9	17
Aroclor-1254 (PCB-1254)	11097-69-1	mg/kg	0.038 U	0.035 U	0.036 U	0.034 U	0.038 U	0.04 U	0.039 U
Aroclor-1260 (PCB-1260)	11096-82-5	mg/kg	0.038 U	0.035 U	0.036 U	0.034 U	0.038 U	0.04 U	0.039 U

Table 2

General Motors Former IFG Facility
Syracuse, New York
August 2007 Floodplain Sampling Event
PCB Data Summary

Chemical Name	CAS	Units	B26 Floodplain SO 8/16/2007 4 - 6 ft BGS	B27 Floodplain SO 8/16/2007 0 - 2 ft BGS	B27 Floodplain SO 8/16/2007 2 - 4 ft BGS	B29 Floodplain SO 8/16/2007 0 - 2 ft BGS	B29 Floodplain SO 8/16/2007 2 - 4 ft BGS	B29 Floodplain SO 8/16/2007 4 - 6 ft BGS	B29 Floodplain SO 8/16/2007 6 - 7 ft BGS	B30 Floodplain SO 8/16/2007 4 - 6 ft BGS
Aroclor-1016 (PCB-1016)	12674-11-2	mg/kg	0.035 U	0.038 U	0.034 U	0.042 U	0.049 U	0.04 U	0.037 U	0.038 U
Aroclor-1221 (PCB-1221)	11104-28-2	mg/kg	0.072 U	0.077 U	0.07 U	0.085 U	0.099 U	0.082 U	0.074 U	0.078 U
Aroclor-1232 (PCB-1232)	11141-16-5	mg/kg	0.035 U	0.038 U	0.034 U	0.042 U	0.049 U	0.04 U	0.037 U	0.038 U
Aroclor-1242 (PCB-1242)	53469-21-9	mg/kg	0.035 U	0.5	0.034 U	0.042 U	61	11	0.041	21
Aroclor-1248 (PCB-1248)	12672-29-6	mg/kg	0.17	0.038 U	0.043	1.5	0.049 U	0.04 U	0.037 U	0.038 U
Aroclor-1254 (PCB-1254)	11097-69-1	mg/kg	0.035 U	0.038 U	0.034 U	0.042 U	0.049 U	0.04 U	0.037 U	0.038 U
Aroclor-1260 (PCB-1260)	11096-82-5	mg/kg	0.035 U	0.038 U	0.034 U	0.042 U	0.049 U	0.04 U	0.037 U	0.038 U

Table 2

General Motors Former IFG Facility
Syracuse, New York
August 2007 Floodplain Sampling Event
PCB Data Summary

Chemical Name	CAS	Units	B31 Floodplain SO 8/16/2007 4 - 6 ft BGS
Aroclor-1016 (PCB-1016)	12674-11-2	mg/kg	0.036 U
Aroclor-1221 (PCB-1221)	11104-28-2	mg/kg	0.072 U
Aroclor-1232 (PCB-1232)	11141-16-5	mg/kg	0.036 U
Aroclor-1242 (PCB-1242)	53469-21-9	mg/kg	6.2
Aroclor-1248 (PCB-1248)	12672-29-6	mg/kg	0.036 U
Aroclor-1254 (PCB-1254)	11097-69-1	mg/kg	0.036 U
Aroclor-1260 (PCB-1260)	11096-82-5	mg/kg	0.036 U

Table 3
General Motors Former IFG Facility
Syracuse, New York
June 2008 Niagara Mohawk Wetland Sediment Sampling Event
Data Summary

Chemical Name	CAS	Units	WLSD08-1 6/10/2008 2.5 - 3 ft BGS	WLSD08-1 6/10/2008 3 - 3.5 ft BGS	WLSD08-3 6/10/2008 2.67 - 3.17 ft BGS	WLSD08-3 6/10/2008 3.17 - 3.67 ft BGS	WLSD08-4 6/10/2008 0.5 - 1 ft BGS	WLSD08-4 6/10/2008 0 - 0.5 ft BGS
PCBs								
Aroclor-1016 (PCB-1016)	12674-11-2	mg/kg	0.063 U	0.052 U	0.079 UJ	0.052 U	0.055 U	0.044 U
Aroclor-1221 (PCB-1221)	11104-28-2	mg/kg	0.13 U	0.11 U	0.16 UJ	0.11 U	0.11 U	0.089 U
Aroclor-1232 (PCB-1232)	11141-16-5	mg/kg	0.063 U	0.052 U	0.079 UJ	0.052 U	0.055 U	0.044 U
Aroclor-1242 (PCB-1242)	53469-21-9	mg/kg	150	19	8.6 J	4.4	0.055 U	0.044 U
Aroclor-1248 (PCB-1248)	12672-29-6	mg/kg	0.063 U	0.052 U	0.079 UJ	0.052 U	0.27 J	0.067 J
Aroclor-1254 (PCB-1254)	11097-69-1	mg/kg	0.063 U	0.052 U	0.079 UJ	0.052 U	0.055 U	0.044 U
Aroclor-1260 (PCB-1260)	11096-82-5	mg/kg	0.063 U	0.052 U	0.079 UJ	0.052 U	0.055 U	0.044 U
Site-Related Metals								
Arsenic	7440-38-2T	mg/kg	7.5	4.3	6.9 J	4.3	2.9	2.7
Chromium Total	7440-47-3T	mg/kg	1440	509	1050 J	1560	34.0	18.1
Copper	7440-50-8T	mg/kg	1660	601	707 J	1240	33.5	22.3
Lead	7439-92-1T	mg/kg	57.0	24.1	28.6 J	18.5	24.6	9.8
Nickel	7440-02-0T	mg/kg	1370	525	311 J	291	31.1	20.4
Zinc	7440-66-6T	mg/kg	1030 J	419 J	187 J	165 J	104 J	51.6 J
Total Organic Carbon (TOC)	TOC	mg/kg	41600 J	10200 J	46700 J	22200 J	58500 J	8870 J

Table 3
General Motors Former IFG Facility
Syracuse, New York
June 2008 Niagara Mohawk Wetland Sediment Sampling Event
Data Summary

Chemical Name	CAS	Units	WLSD08-4 6/10/2008 1 - 2 ft BGS	WLSD08-4 6/10/2008 2 - 3 ft BGS	WLSD08-5 6/11/2008 0.58 - 1 ft BGS	WLSD08-5 6/11/2008 0 - 0.54 ft BGS	WLSD08-5 6/11/2008 1 - 2 ft BGS	WLSD08-5 6/11/2008 2 - 2.67 ft BGS
PCBs								
Aroclor-1016 (PCB-1016)	12674-11-2	mg/kg	0.04 U	0.041 U	0.057 U	0.07 UJ	0.039 U	0.039 U
Aroclor-1221 (PCB-1221)	11104-28-2	mg/kg	0.081 U	0.083 U	0.12 U	0.14 UJ	0.079 U	0.078 U
Aroclor-1232 (PCB-1232)	11141-16-5	mg/kg	0.04 U	0.041 U	0.057 U	0.07 UJ	0.039 U	0.039 U
Aroclor-1242 (PCB-1242)	53469-21-9	mg/kg	0.04 U	0.041 U	0.057 U	0.07 UJ	0.11	0.039 U
Aroclor-1248 (PCB-1248)	12672-29-6	mg/kg	0.04 U	0.041 U	0.17 J	0.32 J	0.039 U	0.039 U
Aroclor-1254 (PCB-1254)	11097-69-1	mg/kg	0.04 U	0.041 U	0.057 U	0.07 UJ	0.039 U	0.039 U
Aroclor-1260 (PCB-1260)	11096-82-5	mg/kg	0.04 U	0.041 U	0.057 U	0.07 UJ	0.039 U	0.039 U
Site-Related Metals								
Arsenic	7440-38-2T	mg/kg	1.8	3.2	0.73	3.5 J	1.2	2.0
Chromium Total	7440-47-3T	mg/kg	9.4	10.8	35.8 J	76.0 J	7.9 J	8.7 J
Copper	7440-50-8T	mg/kg	5.9	12.9	31.1	64.7 J	4.9	10.1
Lead	7439-92-1T	mg/kg	4.3	4.4	24.1 J	50.7 J	4.0 J	3.5 J
Nickel	7440-02-0T	mg/kg	9.1	13.2	27.8 J	60.4 J	6.8 J	9.1 J
Zinc	7440-66-6T	mg/kg	21.6 J	24.7 J	60.2 J	105 J	16.6 J	18.7 J
Total Organic Carbon (TOC)	TOC	mg/kg	3500 J	612 U	63900	94800 J	4460	583 U

Table 3
General Motors Former IFG Facility
Syracuse, New York
June 2008 Niagara Mohawk Wetland Sediment Sampling Event
Data Summary

Chemical Name	CAS	Units	WLSD08-6 6/11/2008 0.5 - 1 ft BGS	WLSD08-6 6/11/2008 0 - 0.5 ft BGS	WLSD08-6 6/11/2008 1 - 2 ft BGS	WLSD08-6 6/11/2008 2 - 3 ft BGS	WLSD08-7 6/11/2008 0.5 - 1 ft BGS	WLSD08-7 6/11/2008 0 - 0.5 ft BGS	WLSD08-7 6/11/2008 1 - 2.1 ft BGS
PCBs									
Aroclor-1016 (PCB-1016)	12674-11-2	mg/kg	0.055 U	0.062 U	0.04 U	0.039 U	0.047 U	0.051 U	0.044 U
Aroclor-1221 (PCB-1221)	11104-28-2	mg/kg	0.11 U	0.13 U	0.082 U	0.079 U	0.095 U	0.1 U	0.089 U
Aroclor-1232 (PCB-1232)	11141-16-5	mg/kg	0.055 U	0.062 U	0.04 U	0.039 U	0.047 U	0.051 U	0.044 U
Aroclor-1242 (PCB-1242)	53469-21-9	mg/kg	0.055 U	0.062 U	0.04 U	0.039 U	0.047 U	0.051 U	0.044 U
Aroclor-1248 (PCB-1248)	12672-29-6	mg/kg	0.055 U	0.062 U	0.04 U	0.039 U	0.047 U	0.051 U	0.044 U
Aroclor-1254 (PCB-1254)	11097-69-1	mg/kg	0.055 U	0.062 U	0.04 U	0.039 U	0.047 U	0.051 U	0.044 U
Aroclor-1260 (PCB-1260)	11096-82-5	mg/kg	0.055 U	0.062 U	0.04 U	0.039 U	0.047 U	0.051 U	0.044 U
Site-Related Metals									
Arsenic	7440-38-2T	mg/kg	6.1	8.1	1.2	1.3	3.5	4.1	2.4
Chromium Total	7440-47-3T	mg/kg	16.4	18.2	10.1	7.7	13.7 J	14.2 J	14.3 J
Copper	7440-50-8T	mg/kg	30.4	45.9	5.8	6.2	17.7	21.6	14.9
Lead	7439-92-1T	mg/kg	19.6	38.7	4.9	3.5	14.7 J	28.1 J	6.7 J
Nickel	7440-02-0T	mg/kg	15.1	16.7	8.4	7.5	12.5 J	12.9 J	12.9 J
Zinc	7440-66-6T	mg/kg	77.2 J	101 J	32.1 J	20.7 J	55.5 J	67.0 J	46.9 J
Total Organic Carbon (TOC)	TOC	mg/kg	56800 J	92100 J	12200 J	1480 J	44100	58900	14400

Table 3
General Motors Former IFG Facility
Syracuse, New York
June 2008 Niagara Mohawk Wetland Sediment Sampling Event
Data Summary

Chemical Name	CAS	Units	WLSD08-7 6/11/2008 2.1 - 3 ft BGS	WLSD08-8 6/11/2008 0.5 - 1 ft BGS	WLSD08-8 6/11/2008 0 - 0.5 ft BGS	WLSD08-8 6/11/2008 1 - 2 ft BGS	WLSD08-8 6/11/2008 2.17 - 3 ft BGS	WLSD08-9 6/12/2008 2.5 - 3 ft BGS
PCBs								
Aroclor-1016 (PCB-1016)	12674-11-2	mg/kg	0.04 U	0.045 U	0.064 U	0.039 U	0.04 U	0.056 U
Aroclor-1221 (PCB-1221)	11104-28-2	mg/kg	0.081 U	0.091 U	0.13 U	0.079 U	0.082 U	0.11 U
Aroclor-1232 (PCB-1232)	11141-16-5	mg/kg	0.04 U	0.045 U	0.064 U	0.039 U	0.04 U	0.056 U
Aroclor-1242 (PCB-1242)	53469-21-9	mg/kg	0.04 U	0.045 U	0.064 U	0.039 U	0.04 U	0.056 U
Aroclor-1248 (PCB-1248)	12672-29-6	mg/kg	0.04 U	0.045 U	0.064 U	0.039 U	0.04 U	0.056 U
Aroclor-1254 (PCB-1254)	11097-69-1	mg/kg	0.04 U	0.045 U	0.064 U	0.039 U	0.04 U	0.056 U
Aroclor-1260 (PCB-1260)	11096-82-5	mg/kg	0.04 U	0.045 U	0.064 U	0.039 U	0.04 U	0.056 U
Site-Related Metals								
Arsenic	7440-38-2T	mg/kg	2.2	1.5	3.8	0.87	0.96	2.2
Chromium Total	7440-47-3T	mg/kg	14.0 J	12.7 J	21.6 J	10.2 J	7.1 J	18.0 J
Copper	7440-50-8T	mg/kg	11.4	8.3	23.7	9.2	11.7	48.5
Lead	7439-92-1T	mg/kg	7.1 J	13.3 J	38.8 J	4.9 J	3.6 J	7.9 J
Nickel	7440-02-0T	mg/kg	13.5 J	10.1 J	17.5 J	11.7 J	8.6 J	86.7 J
Zinc	7440-66-6T	mg/kg	48.7 J	44.0 J	92.6 J	25.4 J	19.3 J	70.4 J
Total Organic Carbon (TOC)	TOC	mg/kg	8870	25500	90400	1390	4900 J	67000

Table 3
General Motors Former IFG Facility
Syracuse, New York
June 2008 Niagara Mohawk Wetland Sediment Sampling Event
Data Summary

Chemical Name	CAS	Units	WLSD08-9 6/12/2008 3 - 3.5 ft BGS
PCBs			
Aroclor-1016 (PCB-1016)	12674-11-2	mg/kg	0.054 U
Aroclor-1221 (PCB-1221)	11104-28-2	mg/kg	0.11 U
Aroclor-1232 (PCB-1232)	11141-16-5	mg/kg	0.054 U
Aroclor-1242 (PCB-1242)	53469-21-9	mg/kg	0.054 U
Aroclor-1248 (PCB-1248)	12672-29-6	mg/kg	0.054 U
Aroclor-1254 (PCB-1254)	11097-69-1	mg/kg	0.054 U
Aroclor-1260 (PCB-1260)	11096-82-5	mg/kg	0.054 U
Site-Related Metals			
Arsenic	7440-38-2T	mg/kg	1.5
Chromium Total	7440-47-3T	mg/kg	16.2 J
Copper	7440-50-8T	mg/kg	16.9
Lead	7439-92-1T	mg/kg	7.0 J
Nickel	7440-02-0T	mg/kg	16.6 J
Zinc	7440-66-6T	mg/kg	56.0 J
Total Organic Carbon (TOC)	TOC	mg/kg	44200

Table 4
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Biota Sampling Event
Inorganics and PCB Data Summary

Chemical Name	CAS	Reach Species Units	DSR-BB-7 Downstream Brown Bullhead 6/10/2008 -	DSR-BB-8 Downstream Brown Bullhead 6/10/2008 -	DSR-CC-4A Downstream Creek Chub 6/10/2008 -	DSR-CC-4B Downstream Creek Chub 6/10/2008 -	DSR-CFSH-3 Downstream Crayfish 6/10/2008 -	DSR-CFSH-4 Downstream Crayfish 6/10/2008 -	DSR-WS-10 Downstream White Sucker 6/11/2008 -	DSR-WS-6 Downstream White Sucker 6/10/2008 -
Inorganics										
Antimony	7440-36-0T	ug/kg	670 U	580 U	700 U	na	680 U	660 U	630 U	670 U
Arsenic	7440-38-2T	ug/kg	670 U	580 U	700 U	na	680 U	660 U	630 U	670 U
Barium	7440-39-3T	ug/kg	6700 U	5800 U	7000 U	na	6800 U	8400	6300 U	6700 U
Beryllium	7440-41-7T	ug/kg	170 U	140 U	170 U	na	170 U	170 U	160 U	170 U
Cadmium	7440-43-9T	ug/kg	170 U	140 U	170 U	na	170 U	180	160 U	170 U
Chromium Total	7440-47-3T	ug/kg	340 U	290 U	350 U	na	340 U	330 U	370	330 U
Copper	7440-50-8T	ug/kg	840 U	720 U	2600	na	25300	32800	1300	1000
Cyanide (total)	57-12-5T	ug/kg	230 U	200 U	200 U	na	200 U	200 U	230 U	210 U
Lead	7439-92-1T	ug/kg	670 U	580 U	700 U	na	680 U	660 U	630 U	670 U
Zinc	7440-66-6T	ug/kg	6500	10100	36200	na	18700	20700	20800	13200
Mercury	7439-97-6T	ug/kg	140	270	44	na	32 U	33 U	69	39
Methyl mercury	22967-92-6	ug/kg	181	na	61.7	57.9	14.9	14.9	78.2	58.7
Nickel	7440-02-0T	ug/kg	1300 U	1200 U	1400 U	na	1400 U	1500	1300 U	1300 U
Selenium	7782-49-2T	ug/kg	670 U	580 U	700 U	na	680 U	660 U	630 U	670 U
Silver	7440-22-4T	ug/kg	340 U	290 U	350 U	na	340 U	330 U	320 U	330 U
Thallium	7440-28-0T	ug/kg	340 U	290 U	350 U	na	340 U	330 U	320 U	330 U
Zinc	7440-66-6T	ug/kg	6500	10100	36200	na	18700	20700	20800	13200
Cobalt	7440-48-4T	ug/kg	1700 U	1400 U	1700 U	na	1700 U	1700 U	1600 U	1700 U
Manganese	7439-96-5T	ug/kg	510 U	500	1500	na	30200	50300	5600	3500
Vanadium	7440-62-2T	ug/kg	1700 U	1400 U	1700 U	na	1700 U	1700 U	1600 U	1700 U
PCBs										
Aroclor-1016 (PCB-1016)	12674-11-2	ug/kg	50 UJ	49 UJ	34 U	93 U	27 U	32 U	33 U	98 U
Aroclor-1221 (PCB-1221)	11104-28-2	ug/kg	50 UJ	49 UJ	34 U	93 U	27 U	32 U	33 U	98 U
Aroclor-1232 (PCB-1232)	11141-16-5	ug/kg	50 UJ	49 UJ	34 U	93 U	27 U	32 U	33 U	98 U
Aroclor-1242 (PCB-1242)	53469-21-9	ug/kg	50 UJ	49 UJ	34 U	93 U	27 U	32 U	813 J	863
Aroclor-1248 (PCB-1248)	12672-29-6	ug/kg	949 J	379 J	2390	2030	315	436 J	33 U	98 U
Aroclor-1254 (PCB-1254)	11097-69-1	ug/kg	528 J	194 J	778	927	348	434 J	418 J	384
Aroclor-1260 (PCB-1260)	11096-82-5	ug/kg	312 J	121 J	229	322	67.1	109 J	245 J	228

Note: Results reported on wet weight basis.

Table 4
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Biota Sampling Event
Inorganics and PCB Data Summary

Chemical Name	CAS	Reach Species Units	DSR-WS-7 Downstream White Sucker 6/12/2008 -	DSR-WS-8 Downstream White Sucker 6/12/2008 -	DSR-WS-9 Downstream White Sucker 6/12/2008 -	NBR-CC-5 North Branch Creek Chub 6/11/2008 -	NBR-CC-6 North Branch Creek Chub 6/11/2008 -	NBR-CFSH-6 North Branch Crayfish 6/11/2008 -	NBR-WS-11 North Branch White Sucker 6/11/2008 -	NBR-WS-12 North Branch White Sucker 6/11/2008 -
Inorganics										
Antimony	7440-36-0T	ug/kg	670 U	680 U	640 U	670 U	660 U	660 U	680 U	670 U
Arsenic	7440-38-2T	ug/kg	670 U	680 U	640 U	670 U	660 U	660 U	680 U	670 U
Barium	7440-39-3T	ug/kg	6700 U	6800 U	6400 U	6700 U	6600 U	16500	6800 U	6700 U
Beryllium	7440-41-7T	ug/kg	170 U	170 U	160 U	170 U	170 U	170 U	170 U	170 U
Cadmium	7440-43-9T	ug/kg	170 U	170 U	160 U	170 U	170 U	240	170 U	170 U
Chromium Total	7440-47-3T	ug/kg	330 U	340 U	610	340 U	330 U	400	340 U	330 U
Copper	7440-50-8T	ug/kg	1500	1700	1400	4800	7900	30500	1300	840
Cyanide (total)	57-12-5T	ug/kg	230 U	200 U	200 U	220 U	220 U	220 U	210 U	230 U
Lead	7439-92-1T	ug/kg	670 U	680 U	2500	670 U	660 U	790	680 U	670 U
Zinc	7440-66-6T	ug/kg	16900	16700	16400	29600	28800	19900	15900	18400
Mercury	7439-97-6T	ug/kg	57	68	69	120	84	30 U	120	81
Methyl mercury	22967-92-6	ug/kg	66	93.9	59.9	126	114	27.6	115	80.7
Nickel	7440-02-0T	ug/kg	1300 U	1400 U	1300 U	1300 U	1300 U	1300 U	1400 U	1300 U
Selenium	7782-49-2T	ug/kg	670 U	680 U	640 U	670 U	660 U	660 U	680 U	670 U
Silver	7440-22-4T	ug/kg	330 U	340 U	320 U	340 U	330 U	330 U	340 U	330 U
Thallium	7440-28-0T	ug/kg	330 U	340 U	320 U	340 U	330 U	400 U	340 U	330 U
Zinc	7440-66-6T	ug/kg	16900	16700	16400	29600	28800	19900	15900	18400
Cobalt	7440-48-4T	ug/kg	1700 U	1700 U	1600 U	1700 U	1700 U	1700 U	1700 U	1700 U
Manganese	7439-96-5T	ug/kg	1800	3900	4400	2300	2600	81100	3400	6000
Vanadium	7440-62-2T	ug/kg	1700 U	1700 U	1600 U	1700 U	1700 U	1700 U	1700 U	1700 U
PCBs										
Aroclor-1016 (PCB-1016)	12674-11-2	ug/kg	51 U	33 U	33 U	34 U	34 U	31 U	50 U	33 U
Aroclor-1221 (PCB-1221)	11104-28-2	ug/kg	51 U	33 U	33 U	34 U	34 U	31 U	50 U	33 U
Aroclor-1232 (PCB-1232)	11141-16-5	ug/kg	51 U	33 U	33 U	34 U	34 U	31 U	50 U	33 U
Aroclor-1242 (PCB-1242)	53469-21-9	ug/kg	51 U	33 U	1540	34 U	34 U	31 U	50 U	33 U
Aroclor-1248 (PCB-1248)	12672-29-6	ug/kg	1290 J	1080	33 U	80.9	243	31 U	89.9	146 J
Aroclor-1254 (PCB-1254)	11097-69-1	ug/kg	727 J	613	325	154	349	31 U	111	145 J
Aroclor-1260 (PCB-1260)	11096-82-5	ug/kg	473 J	332	136	125	202	55.3	51.1	90.2 J

Note: Results reported on wet weight basis.

Table 4
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Biota Sampling Event
Inorganics and PCB Data Summary

Chemical Name	CAS	Reach Species Units	NBR-WS-15 North Branch White Sucker 6/11/2008 -	NY-REF-1 6/24/2008 -	SAN-CC-10 Sanders Creek Creek Chub 6/11/2008 -	SAN-CC-9 Sanders Creek Creek Chub 6/11/2008 -	SAN-CFSH-5 Sanders Creek Crayfish 6/11/2008 -	SAN-WS-13 Sanders Creek White Sucker 6/11/2008 -	SAN-WS-14 Sanders Creek White Sucker 6/11/2008 -	SAN-WS-16 Sanders Creek White Sucker 6/11/2008 -
Inorganics										
Antimony	7440-36-0T	ug/kg	710 U	na	630 U	660 U	980 U	700 U	660 U	630 U
Arsenic	7440-38-2T	ug/kg	710 U	na	630 U	660 U	980 U	700 U	660 U	630 U
Barium	7440-39-3T	ug/kg	7100 U	na	6300 U	6600 U	14800	7000 U	6600 U	6300 U
Beryllium	7440-41-7T	ug/kg	180 U	na	160 U	170 U	240 U	170 U	170 U	160 U
Cadmium	7440-43-9T	ug/kg	180 U	na	160 U	170 U	240 U	170 U	170 U	160 U
Chromium Total	7440-47-3T	ug/kg	350 U	na	320 U	330 U	1000	350 U	500	310
Copper	7440-50-8T	ug/kg	900	na	3300	4200	39900	920	1200	1600
Cyanide (total)	57-12-5T	ug/kg	240 U	na	210 U	200 U	210 U	230 U	240 U	220 UJ
Lead	7439-92-1T	ug/kg	710 U	na	630 U	660 U	980 U	700 U	660 U	630 U
Zinc	7440-66-6T	ug/kg	25400	na	28700	34000	23600	18700	23400	21400 J
Mercury	7439-97-6T	ug/kg	100	na	62	85	31 U	71	94	47
Methyl mercury	22967-92-6	ug/kg	111	279	87.6	62.9	16.3	72.6	95.5	74.3
Nickel	7440-02-0T	ug/kg	1400 U	na	1300 U	1300 U	2000 U	1400 U	1300 U	1300 U
Selenium	7782-49-2T	ug/kg	710 U	na	630 U	660 U	980 U	700 U	660 U	630 U
Silver	7440-22-4T	ug/kg	350 U	na	320 U	330 U	490 U	350 U	330 U	310 U
Thallium	7440-28-0T	ug/kg	350 U	na	320 U	330 U	490 U	350 U	330 U	310 U
Zinc	7440-66-6T	ug/kg	25400	na	28700	34000	23600	18700	23400	21400 J
Cobalt	7440-48-4T	ug/kg	1800 U	na	1600 U	1700 U	2400 U	1700 U	1700 U	1600 U
Manganese	7439-96-5T	ug/kg	5600	na	3400	3800	70400	4900	4700	6200
Vanadium	7440-62-2T	ug/kg	1800 U	na	1600 U	1700 U	2400 U	1700 U	1700 U	1600 U
PCBs										
Aroclor-1016 (PCB-1016)	12674-11-2	ug/kg	51 U	500 U	49 U	49 U	33 U	51 U	50 UJ	50 U
Aroclor-1221 (PCB-1221)	11104-28-2	ug/kg	51 U	500 U	49 U	49 U	33 U	51 U	50 UJ	50 U
Aroclor-1232 (PCB-1232)	11141-16-5	ug/kg	51 U	500 U	49 U	49 U	33 U	51 U	50 UJ	50 U
Aroclor-1242 (PCB-1242)	53469-21-9	ug/kg	51 U	500 U	49 U	49 U	33 U	51 U	50 UJ	50 U
Aroclor-1248 (PCB-1248)	12672-29-6	ug/kg	173	4030	49 U	49 U	33 U	51 U	50 UJ	50 U
Aroclor-1254 (PCB-1254)	11097-69-1	ug/kg	208	2780	714	602	183	792	263 J	690
Aroclor-1260 (PCB-1260)	11096-82-5	ug/kg	236	1290	1740	1250	453	1480	409 J	2000

Note: Results reported on wet weight basis.

Table 4
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Biota Sampling Event
Inorganics and PCB Data Summary

Chemical Name	CAS	Reach Species Units	SBR-CC-7 South Branch Creek Chub 6/11/2008 -	SBR-CC-8 South Branch Creek Chub 6/11/2008 -	SBR-CFSH-7 South Branch Crayfish 6/11/2008 -	SR-BB-1 Site Brown Bullhead 6/9/2008 -	SR-BB-2 Site Brown Bullhead 6/9/2008 -	SR-BB-3 Site Brown Bullhead 6/9/2008 -	SR-BB-4 Site Brown Bullhead 6/9/2008 -
Inorganics									
Antimony	7440-36-0T	ug/kg	670 U	670 U	670 U	610 U	450 U	580 U	570 U
Arsenic	7440-38-2T	ug/kg	670 U	670 U	670 U	610 U	450 U	580 U	570 U
Barium	7440-39-3T	ug/kg	6700 U	6700 U	6700 U	6100 U	4500 U	5800 U	5700 U
Beryllium	7440-41-7T	ug/kg	170 U	170 U	170 U	150 U	110 U	140 U	140 U
Cadmium	7440-43-9T	ug/kg	170 U	170 U	170 U	150 U	110 U	140 U	140 U
Chromium Total	7440-47-3T	ug/kg	330 U	330 U	440	300 U	230 U	290 U	280 U
Copper	7440-50-8T	ug/kg	3400	3000	27200	870	560	720 U	710 U
Cyanide (total)	57-12-5T	ug/kg	210 U	210 U	220 U	200 U	240 U	240 U	220 U
Lead	7439-92-1T	ug/kg	670 U	670 U	670 U	610 U	450 U	580 U	570 U
Zinc	7440-66-6T	ug/kg	32300	29600	16800	9400	6500	9700	5400
Mercury	7439-97-6T	ug/kg	120	190	48	190	410	440	450
Methyl mercury	22967-92-6	ug/kg	135	163	53.4	190	402	418	425
Nickel	7440-02-0T	ug/kg	1300 U	1300 U	1300 U	1200 U	900 U	1200 U	1100 U
Selenium	7782-49-2T	ug/kg	670 U	670 U	670 U	610 U	450 U	580 U	570 U
Silver	7440-22-4T	ug/kg	330 U	330 U	330 U	300 U	230 U	290 U	280 U
Thallium	7440-28-0T	ug/kg	330 U	330 U	330 U	300 U	230 U	290 U	280 U
Zinc	7440-66-6T	ug/kg	32300	29600	16800	9400	6500	9700	5400
Cobalt	7440-48-4T	ug/kg	1700 U	1700 U	1700 U	1500 U	1100 U	1400 U	1400 U
Manganese	7439-96-5T	ug/kg	1700	2000	14200	1200	540	430 U	430 U
Vanadium	7440-62-2T	ug/kg	1700 U	1700 U	1700 U	1500 U	1100 U	1400 U	1400 U
PCBs									
Aroclor-1016 (PCB-1016)	12674-11-2	ug/kg	35 U	30 U	30 U	33 U	33 U	33 U	33 U
Aroclor-1221 (PCB-1221)	11104-28-2	ug/kg	35 U	30 U	30 U	33 U	33 U	33 U	33 U
Aroclor-1232 (PCB-1232)	11141-16-5	ug/kg	35 U	30 U	30 U	33 U	33 U	33 U	33 U
Aroclor-1242 (PCB-1242)	53469-21-9	ug/kg	35 U	30 U	30 U	33 U	33 U	33 U	33 U
Aroclor-1248 (PCB-1248)	12672-29-6	ug/kg	167	269	30 U	139	288	342	100
Aroclor-1254 (PCB-1254)	11097-69-1	ug/kg	263	324	52.4	113	231	284	46.6
Aroclor-1260 (PCB-1260)	11096-82-5	ug/kg	254	160	30 U	91.5	184	216	33 U

Note: Results reported on wet weight basis.

Table 4
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Biota Sampling Event
Inorganics and PCB Data Summary

Chemical Name	CAS	Reach Species Units	SR-BB-5 Site Brown Bullhead 6/13/2008 -	SR-BB-6 Site Brown Bullhead 6/13/2008 -	SR-CC-1 Site Creek Chub 6/13/2008 -	SR-CC-2 Site Creek Chub 6/13/2008 -	SR-CC-3 Site Creek Chub 6/13/2008 -	SR-CFSH-1 Site Crayfish 6/9/2008 -	SR-CFSH-2 Site Crayfish 6/9/2008 -	SR-WS-1 Site White Sucker 6/9/2008 -	SR-WS-2 Site White Sucker 6/9/2008 -
Inorganics											
Antimony	7440-36-0T	ug/kg	650 U	410 U	660 U	670 U	670 U	660 U	660 U	630 U	650 U
Arsenic	7440-38-2T	ug/kg	650 U	410 U	660 U	670 U	670 U	1300 U	660 U	630 U	650 U
Barium	7440-39-3T	ug/kg	6500 U	4100 U	6600 U	6700 U	6700 U	16400	9000	6300 U	6500 U
Beryllium	7440-41-7T	ug/kg	160 U	100 U	160 U	170 U	170 U	160 U	170 U	160 U	160 U
Cadmium	7440-43-9T	ug/kg	160 U	100 U	160 U	170 U	170 U	330 U	170 U	160 U	160 U
Chromium Total	7440-47-3T	ug/kg	330 U	210	330 U	330 U	330 U	430	330 U	360	440
Copper	7440-50-8T	ug/kg	810 U	510	1700	3700	2500	21800	25900	3500	1400
Cyanide (total)	57-12-5T	ug/kg	210 U	240 U	200 U	220 U	220 U	240 U	210 U	240 U	240 U
Lead	7439-92-1T	ug/kg	650 U	410 U	660 U	670 U	670 U	1300 U	1100	630 U	650 U
Zinc	7440-66-6T	ug/kg	8700 J	9600	30200	25100	30700	17500	16300	18400	23100
Mercury	7439-97-6T	ug/kg	130	320	110	54	62	29 U	32 U	56	53
Methyl mercury	22967-92-6	ug/kg	167	333	93.8	53.1	65.9	18.3	18.3 J	59.1	53.1
Nickel	7440-02-0T	ug/kg	1300 U	810 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U
Selenium	7782-49-2T	ug/kg	650 U	410 U	660 U	670 U	670 U	1300 U	660 U	630 U	650 U
Silver	7440-22-4T	ug/kg	330 U	200 U	330 U	330 U	330 U	330 U	330 U	310 U	330 U
Thallium	7440-28-0T	ug/kg	330 U	200 U	330 U	330 U	330 U	660 U	330 U	310 U	330 U
Zinc	7440-66-6T	ug/kg	8700 J	9600	30200	25100	30700	17500	16300	18400	23100
Cobalt	7440-48-4T	ug/kg	1600 U	1000 U	1600 U	1700 U	1700 U	1600 U	1700 U	1600 U	1600 U
Manganese	7439-96-5T	ug/kg	510 J	1800 J	1800	1600	1400	70400	58000	7100	4700
Vanadium	7440-62-2T	ug/kg	1600 U	1000 U	1600 U	1700 U	1700 U	1600 U	1700 U	1600 U	1600 U
PCBs											
Aroclor-1016 (PCB-1016)	12674-11-2	ug/kg	33 U	32 U	36 U	32 U	34 U	33 U	32 U	33 U	33 U
Aroclor-1221 (PCB-1221)	11104-28-2	ug/kg	33 U	32 U	36 U	32 U	34 U	33 U	32 U	33 U	33 U
Aroclor-1232 (PCB-1232)	11141-16-5	ug/kg	33 U	32 U	36 U	32 U	34 U	33 U	32 U	33 U	33 U
Aroclor-1242 (PCB-1242)	53469-21-9	ug/kg	33 U	32 U	36 U	32 U	34 U	33 U	32 U	33 U	33 U
Aroclor-1248 (PCB-1248)	12672-29-6	ug/kg	458	192	695	965	1330	33 U	32 U	872	1200
Aroclor-1254 (PCB-1254)	11097-69-1	ug/kg	215	123	545	487	859	141	124	544	638
Aroclor-1260 (PCB-1260)	11096-82-5	ug/kg	134	88.5	307	210	364	66.8	53.5	329	322

Note: Results reported on wet weight basis.

Table 4
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Biota Sampling Event
Inorganics and PCB Data Summary

Chemical Name	CAS	Reach Species Units	SR-WS-3 Site White Sucker 6/13/2008 -	SR-WS-4 Site White Sucker 6/13/2008 -	SR-WS-5 Site White Sucker 6/13/2008 -
Inorganics					
Antimony	7440-36-0T	ug/kg	650 U	630 U	660 U
Arsenic	7440-38-2T	ug/kg	650 U	630 U	660 U
Barium	7440-39-3T	ug/kg	6500 U	6300 U	6600 U
Beryllium	7440-41-7T	ug/kg	160 U	160 U	170 U
Cadmium	7440-43-9T	ug/kg	160 U	160 U	170 U
Chromium Total	7440-47-3T	ug/kg	320	310 U	570
Copper	7440-50-8T	ug/kg	1000	1400	3400
Cyanide (total)	57-12-5T	ug/kg	240 U	210 U	210 U
Lead	7439-92-1T	ug/kg	650 U	630 U	660 U
Zinc	7440-66-6T	ug/kg	11200	15400	19600
Mercury	7439-97-6T	ug/kg	61	100	61
Methyl mercury	22967-92-6	ug/kg	69.2	80.2	53.2
Nickel	7440-02-0T	ug/kg	1300 U	1300 U	1300 U
Selenium	7782-49-2T	ug/kg	650 U	630 U	660 U
Silver	7440-22-4T	ug/kg	320 U	310 U	330 U
Thallium	7440-28-0T	ug/kg	320 U	310 U	330 U
Zinc	7440-66-6T	ug/kg	11200	15400	19600
Cobalt	7440-48-4T	ug/kg	1600 U	1600 U	1700 U
Manganese	7439-96-5T	ug/kg	1800	3000	4400
Vanadium	7440-62-2T	ug/kg	1600 U	1600 U	1700 U
PCBs					
Aroclor-1016 (PCB-1016)	12674-11-2	ug/kg	33 U	32 U	33 U
Aroclor-1221 (PCB-1221)	11104-28-2	ug/kg	33 U	32 U	33 U
Aroclor-1232 (PCB-1232)	11141-16-5	ug/kg	33 U	32 U	33 U
Aroclor-1242 (PCB-1242)	53469-21-9	ug/kg	33 U	32 U	119
Aroclor-1248 (PCB-1248)	12672-29-6	ug/kg	388	515	33 U
Aroclor-1254 (PCB-1254)	11097-69-1	ug/kg	132	657	235
Aroclor-1260 (PCB-1260)	11096-82-5	ug/kg	125	473	240

Note: Results reported on wet weight basis.

Table 5
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Biota Sampling Event
SVOC Data Summary

Chemical Name	CAS	Reach Species Units	DSR-BB-7 Downstream Brown Bullhead 6/10/2008 -	DSR-BB-8 Downstream Brown Bullhead 6/10/2008 -	DSR-CC-4A Downstream Creek Chub 6/10/2008 -	DSR-CC-4B Downstream Creek Chub 6/10/2008 -	DSR-CFSH-3 Downstream Crayfish 6/10/2008 -	DSR-CFSH-4 Downstream Crayfish 6/10/2008 -	DSR-WS-10 Downstream White Sucker 6/11/2008 -	DSR-WS-6 Downstream White Sucker 6/10/2008 -
SVOCs										
2,4-Dimethylphenol	105-67-9	ug/kg	500 UJ	490 UJ	340 U	na	270 U	320 U	330 U	980 U
2-Methylnaphthalene	91-57-6	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
2-Methylphenol	95-48-7	ug/kg	200 UJ	200 UJ	104 J	na	110 U	130 U	123 J	390 U
3&4-Methylphenol	3/4-Cresol	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
Acenaphthene	83-32-9	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
Acenaphthylene	208-96-8	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
Anthracene	120-12-7	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
Benzo(a)anthracene	56-55-3	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
Benzo(a)pyrene	50-32-8	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
Benzo(b)fluoranthene	205-99-2	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
Benzo(g,h,i)perylene	191-24-2	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
Benzo(k)fluoranthene	207-08-9	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	200 UJ	200 UJ	712	na	533	674	517 U	1090 U
Butyl benzylphthalate	85-68-7	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
Carbazole	86-74-8	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
Chrysene	218-01-9	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
Dibenz(a,h)anthracene	53-70-3	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
Dibenzofuran	132-64-9	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
Di-n-octyl phthalate	117-84-0	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
Fluoranthene	206-44-0	ug/kg	200 UJ	200 UJ	140 U	na	40.2 J	42.4 J	130 U	390 U
Fluorene	86-73-7	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	130 U	390 U
Naphthalene	91-20-3	ug/kg	200 UJ	200 UJ	140 UJ	na	110 UJ	130 UJ	130 U	390 U
Phenanthrene	85-01-8	ug/kg	200 UJ	200 UJ	140 U	na	43.3 J	71.5 J	130 U	390 U
Phenol	108-95-2	ug/kg	200 UJ	200 UJ	140 U	na	110 U	130 U	110 J	390 U
Pyrene	129-00-0	ug/kg	200 UJ	200 UJ	140 U	na	30.1 J	28.9 J	130 U	390 U

Notes: Results reported on wet weight basis.

Table 5
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Biota Sampling Event
SVOC Data Summary

Chemical Name	CAS	Reach Species Units	DSR-WS-7 Downstream White Sucker 6/12/2008 -	DSR-WS-8 Downstream White Sucker 6/12/2008 -	DSR-WS-9 Downstream White Sucker 6/12/2008 -	NBR-CC-5 North Branch Creek Chub 6/11/2008 -	NBR-CC-6 North Branch Creek Chub 6/11/2008 -	NBR-CFSH-6 North Branch Crayfish 6/11/2008 -	NBR-WS-11 North Branch White Sucker 6/11/2008 -	NBR-WS-12 North Branch White Sucker 6/11/2008 -
SVOCs										
2,4-Dimethylphenol	105-67-9	ug/kg	510 U	330 U	330 U	340 U	340 U	310 U	500 U	330 U
2-Methylnaphthalene	91-57-6	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
2-Methylphenol	95-48-7	ug/kg	200 U	130 U	75.4 J	102 J	123 J	120 U	200 U	130 U
3&4-Methylphenol	3/4-Cresol	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	119 J
Acenaphthene	83-32-9	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
Acenaphthylene	208-96-8	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
Anthracene	120-12-7	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
Benzo(a)anthracene	56-55-3	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
Benzo(a)pyrene	50-32-8	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
Benzo(b)fluoranthene	205-99-2	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
Benzo(g,h,i)perylene	191-24-2	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
Benzo(k)fluoranthene	207-08-9	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	785 U	306 U	408 U	487	394	561	857 U	335 U
Butyl benzylphthalate	85-68-7	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
Carbazole	86-74-8	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
Chrysene	218-01-9	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
Dibenz(a,h)anthracene	53-70-3	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
Dibenzofuran	132-64-9	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
Di-n-octyl phthalate	117-84-0	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
Fluoranthene	206-44-0	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
Fluorene	86-73-7	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U
Naphthalene	91-20-3	ug/kg	200 U	130 U	130 U	130 UJ	130 UJ	120 UJ	200 U	130 U
Phenanthrene	85-01-8	ug/kg	200 U	130 U	27.3 J	23.7 J	27.2 J	34.0 J	200 U	48.3 J
Phenol	108-95-2	ug/kg	200 U	130 U	93.6 J	130 U	130 U	120 U	200 U	130 U
Pyrene	129-00-0	ug/kg	200 U	130 U	130 U	130 U	130 U	120 U	200 U	130 U

Notes: Results reported on wet weight basis.

Table 5
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Biota Sampling Event
SVOC Data Summary

Chemical Name	CAS	Reach Species / Units	NBR-WS-15 North Branch White Sucker 6/11/2008 -	NY-REF-1 6/24/2008 -	SAN-CC-10 Sanders Creek Creek Chub 6/11/2008 -	SAN-CC-9 Sanders Creek Creek Chub 6/11/2008 -	SAN-CFSH-5 Sanders Creek Crayfish 6/11/2008 -	SAN-WS-13 Sanders Creek White Sucker 6/11/2008 -	SAN-WS-14 Sanders Creek White Sucker 6/11/2008 -	SAN-WS-16 Sanders Creek White Sucker 6/11/2008 -
SVOCs										
2,4-Dimethylphenol	105-67-9	ug/kg	530 U	na	490 U	490 U	330 U	510 U	500 UJ	500 U
2-Methylnaphthalene	91-57-6	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
2-Methylphenol	95-48-7	ug/kg	210 U	na	135 J	101 J	130 U	200 U	200 UJ	200 U
3&4-Methylphenol	3/4-Cresol	ug/kg	210 U	na	200 U	133 J	130 U	200 U	200 UJ	200 U
Acenaphthene	83-32-9	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Acenaphthylene	208-96-8	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Anthracene	120-12-7	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Benzo(a)anthracene	56-55-3	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Benzo(a)pyrene	50-32-8	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Benzo(b)fluoranthene	205-99-2	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Benzo(g,h,i)perylene	191-24-2	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Benzo(k)fluoranthene	207-08-9	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	795 U	na	1370	600	223	620 U	200 UJ	1670
Butyl benzylphthalate	85-68-7	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Carbazole	86-74-8	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Chrysene	218-01-9	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Dibenz(a,h)anthracene	53-70-3	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Dibenzofuran	132-64-9	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Di-n-octyl phthalate	117-84-0	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Fluoranthene	206-44-0	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Fluorene	86-73-7	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Naphthalene	91-20-3	ug/kg	210 U	na	200 U	190 U	130 UJ	200 U	200 UJ	200 U
Phenanthrene	85-01-8	ug/kg	210 U	na	200 U	190 U	24.1 J	200 U	200 UJ	200 U
Phenol	108-95-2	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U
Pyrene	129-00-0	ug/kg	210 U	na	200 U	190 U	130 U	200 U	200 UJ	200 U

Notes: Results reported on wet weight basis.

Table 5
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Biota Sampling Event
SVOC Data Summary

Chemical Name	CAS	Reach Species / Units	SBR-CC-7 South Branch Creek Chub 6/11/2008 -	SBR-CC-8 South Branch Creek Chub 6/11/2008 -	SBR-CFSH-7 South Branch Crayfish 6/11/2008 -	SR-BB-1 Site Brown Bullhead 6/9/2008 -	SR-BB-2 Site Brown Bullhead 6/9/2008 -	SR-BB-3 Site Brown Bullhead 6/9/2008 -	SR-BB-4 Site Brown Bullhead 6/9/2008 -
SVOCs									
2,4-Dimethylphenol	105-67-9	ug/kg	350 U	300 U	300 U	330 UJ	330 UJ	330 UJ	330 UJ
2-Methylnaphthalene	91-57-6	ug/kg	140 U	120 U	120 U	130 U	130 U	130 U	130 U
2-Methylphenol	95-48-7	ug/kg	95.6 J	106 J	120 U	130 UJ	130 UJ	130 UJ	130 UJ
3&4-Methylphenol	3/4-Cresol	ug/kg	140 U	120 U	120 U	130 UJ	130 UJ	130 UJ	130 UJ
Acenaphthene	83-32-9	ug/kg	140 U	26.1 J	120 U	130 UJ	130 UJ	130 UJ	130 UJ
Acenaphthylene	208-96-8	ug/kg	140 U	120 U	120 U	130 UJ	130 UJ	130 UJ	130 UJ
Anthracene	120-12-7	ug/kg	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Benzo(a)anthracene	56-55-3	ug/kg	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Benzo(a)pyrene	50-32-8	ug/kg	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Benzo(b)fluoranthene	205-99-2	ug/kg	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Benzo(g,h,i)perylene	191-24-2	ug/kg	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Benzo(k)fluoranthene	207-08-9	ug/kg	140 U	120 U	120 U	130 U	130 U	130 U	130 U
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	750	528	322	314 U	442 U	355 U	373 U
Butyl benzylphthalate	85-68-7	ug/kg	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Carbazole	86-74-8	ug/kg	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Chrysene	218-01-9	ug/kg	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Dibenz(a,h)anthracene	53-70-3	ug/kg	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Dibenzofuran	132-64-9	ug/kg	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Di-n-octyl phthalate	117-84-0	ug/kg	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Fluoranthene	206-44-0	ug/kg	140 U	120 U	120 U	17.7 J	25.3 J	130 U	38.4 J
Fluorene	86-73-7	ug/kg	140 U	24.4 J	120 U	130 UJ	130 UJ	130 UJ	20.8 J
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Naphthalene	91-20-3	ug/kg	140 UJ	120 UJ	120 UJ	130 UJ	130 UJ	130 UJ	130 UJ
Phenanthrene	85-01-8	ug/kg	29.5 J	42.7 J	31.1 J	35.3 J	72.8 J	52.9 J	120 J
Phenol	108-95-2	ug/kg	140 U	120 U	120 U	128 J	130 U	130 U	130 U
Pyrene	129-00-0	ug/kg	140 U	120 U	120 U	130 U	130 U	130 U	130 U

Notes: Results reported on wet weight basis.

Table 5
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Biota Sampling Event
SVOC Data Summary

Chemical Name	CAS	Reach Species / Units	SR-BB-5 Site Brown Bullhead 6/13/2008 -	SR-BB-6 Site Brown Bullhead 6/13/2008 -	SR-CC-1 Site Creek Chub 6/13/2008 -	SR-CC-2 Site Creek Chub 6/13/2008 -	SR-CC-3 Site Creek Chub 6/13/2008 -	SR-CFSH-1 Site Crayfish 6/9/2008 -	SR-CFSH-2 Site Crayfish 6/9/2008 -	SR-WS-1 Site White Sucker 6/9/2008 -	SR-WS-2 Site White Sucker 6/9/2008 -
SVOCs											
2,4-Dimethylphenol	105-67-9	ug/kg	330 UJ	320 UJ	340 U	320 U	340 U	330 U	330 U	330 U	330 UJ
2-Methylnaphthalene	91-57-6	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 UJ
2-Methylphenol	95-48-7	ug/kg	130 UJ	130 UJ	130 U	125 J	176	130 U	130 U	90.6 J	147 J
3&4-Methylphenol	3/4-Cresol	ug/kg	130 UJ	130 UJ	130 U	130 U	140 U	130 U	130 U	270	130 UJ
Acenaphthene	83-32-9	ug/kg	130 UJ	130 UJ	130 U	130 U	140 U	130 U	130 U	54.7 J	92.6 J
Acenaphthylene	208-96-8	ug/kg	130 UJ	130 UJ	130 U	130 U	140 U	130 U	130 U	130 U	130 UJ
Anthracene	120-12-7	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 UJ
Benzo(a)anthracene	56-55-3	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 UJ
Benzo(a)pyrene	50-32-8	ug/kg	130 U	130 U	130 U	130 U	140 U	33.4 J	130 U	130 U	130 UJ
Benzo(b)fluoranthene	205-99-2	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 UJ
Benzo(g,h,i)perylene	191-24-2	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 UJ
Benzo(k)fluoranthene	207-08-9	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 UJ
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	334 U	371 U	499	422	643	631	373	706	557 J
Butyl benzylphthalate	85-68-7	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 UJ
Carbazole	86-74-8	ug/kg	130 U	130 U	130 U	130 U	140 U	67.4 J	130 U	130 U	130 UJ
Chrysene	218-01-9	ug/kg	130 U	130 U	130 U	130 U	140 U	40.2 J	130 U	130 U	130 UJ
Dibenz(a,h)anthracene	53-70-3	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 UJ
Dibenzofuran	132-64-9	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	44.7 J	77.2 J
Di-n-octyl phthalate	117-84-0	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 UJ
Fluoranthene	206-44-0	ug/kg	130 U	130 U	130 U	130 U	140 U	77.3 J	72.2 J	130 U	110 J
Fluorene	86-73-7	ug/kg	130 UJ	130 UJ	130 U	130 U	140 U	32.6 J	130 U	55.3 J	99.7 J
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 UJ
Naphthalene	91-20-3	ug/kg	130 UJ	130 UJ	130 UJ	130 UJ	140 UJ	130 UJ	130 UJ	130 U	32.1 J
Phenanthrene	85-01-8	ug/kg	130 UJ	130 UJ	130 U	130 U	140 U	99.3 J	77.7 J	103 J	208 J
Phenol	108-95-2	ug/kg	130 U	130 UJ	130 U	62.1 J	140 U	130 U	130 U	130 U	130 UJ
Pyrene	129-00-0	ug/kg	130 U	130 U	130 U	130 U	140 U	72.6 J	61.9 J	130 U	44.3 J

Notes: Results reported on wet weight basis.

Table 5
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Biota Sampling Event
SVOC Data Summary

Chemical Name	CAS	Reach Species Units	SR-WS-3 Site White Sucker 6/13/2008 -	SR-WS-4 Site White Sucker 6/13/2008 -	SR-WS-5 Site White Sucker 6/13/2008 -
SVOCs					
2,4-Dimethylphenol	105-67-9	ug/kg	330 U	320 U	330 U
2-Methylnaphthalene	91-57-6	ug/kg	130 U	130 U	130 U
2-Methylphenol	95-48-7	ug/kg	130 U	130 U	135
3&4-Methylphenol	3/4-Cresol	ug/kg	130 U	130 U	130 U
Acenaphthene	83-32-9	ug/kg	130 U	130 U	130 U
Acenaphthylene	208-96-8	ug/kg	130 U	130 U	130 U
Anthracene	120-12-7	ug/kg	130 U	130 U	130 U
Benzo(a)anthracene	56-55-3	ug/kg	130 U	130 U	130 U
Benzo(a)pyrene	50-32-8	ug/kg	130 U	130 U	130 U
Benzo(b)fluoranthene	205-99-2	ug/kg	130 U	130 U	130 U
Benzo(g,h,i)perylene	191-24-2	ug/kg	130 U	130 U	130 U
Benzo(k)fluoranthene	207-08-9	ug/kg	130 U	130 U	130 U
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	232	649	446 U
Butyl benzylphthalate	85-68-7	ug/kg	130 U	130 U	130 U
Carbazole	86-74-8	ug/kg	130 U	130 U	130 U
Chrysene	218-01-9	ug/kg	130 U	130 U	130 U
Dibenz(a,h)anthracene	53-70-3	ug/kg	130 U	130 U	130 U
Dibenzofuran	132-64-9	ug/kg	130 U	130 U	130 U
Di-n-octyl phthalate	117-84-0	ug/kg	130 U	130 U	130 U
Fluoranthene	206-44-0	ug/kg	130 U	130 U	130 U
Fluorene	86-73-7	ug/kg	130 U	130 U	130 U
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	130 U	130 U	130 U
Naphthalene	91-20-3	ug/kg	130 U	130 U	130 U
Phenanthrene	85-01-8	ug/kg	130 U	130 U	130 U
Phenol	108-95-2	ug/kg	130 U	130 U	130 U
Pyrene	129-00-0	ug/kg	130 U	130 U	130 U

Notes: Results reported on wet weight basis.

Table 6
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
Inorganics and PCB Data Summary

Chemical Name	CAS	Units	DSR S1A 6/18/2008 0 - 0.5 ft BGS	DSR S1B 6/18/2008 0.5 - 1 ft BGS	DSR S2A 6/18/2008 0 - 0.5 ft BGS	DSR S2B 6/18/2008 0.5 - 1 ft BGS	DSR S3A 6/18/2008 0 - 0.5 ft BGS	DSR S3B 6/18/2008 0.5 - 1 ft BGS	DSR S4A 6/19/2008 0 - 0.5 ft BGS
Inorganics									
Antimony	7440-36-0T	ug/kg	2600 UJ	3100 UJ	2600 UJ	3300 UJ	3100 UJ	2600 UJ	3400 UJ
Arsenic	7440-38-2T	ug/kg	3400	7000	5900	7800	7400	7000	6600
Barium	7440-39-3T	ug/kg	27400	88900	59100	93900	42400	26000 U	54200
Beryllium	7440-41-7T	ug/kg	640 U	790 U	650 U	820 U	780 U	650 U	840 U
Cadmium	7440-43-9T	ug/kg	640 U	5700	1000	1900	970	650 U	1200
Chromium Total	7440-47-3T	ug/kg	23200	429000	27800	47500	35600	33200	29400
Copper	7440-50-8T	ug/kg	31900	183000	40600	58600	44500	26300	48600
Cyanide (total)	57-12-5T	ug/kg	280 UJ	380 UJ	280 UJ	340 UJ	320 UJ	320 UJ	400 UJ
Lead	7439-92-1T	ug/kg	37100	150000	48100	74200	52000	32900	61200
Zinc	7440-66-6T	ug/kg	97900	273000	101000	114000	158000	83200	179000
Mercury	7439-97-6T	ug/kg	61	180	89	260	1700	85	98
Methyl mercury	22967-92-6	ug/kg	0.334	0.215	0.397	0.438	0.461	0.173	0.261
Nickel	7440-02-0T	ug/kg	12300	121000	15100	30000	23200	23300	18600
Selenium	7782-49-2T	ug/kg	2600 U	3100 U	2600 U	3300 U	3100 U	2600 U	3400 U
Silver	7440-22-4T	ug/kg	1300 U	1900	1500	2100	1600 U	1300 U	1700 U
Thallium	7440-28-0T	ug/kg	1300 U	1600 U	1300 U	1600 U	1600 U	1300 U	1700 U
Zinc	7440-66-6T	ug/kg	97900	273000	101000	114000	158000	83200	179000
Cobalt	7440-48-4T	ug/kg	6400 U	7900 U	6500 U	10500	7800 U	6500 U	8400 U
Manganese	7439-96-5T	ug/kg	161000	276000	227000	564000	277000	183000	260000
Vanadium	7440-62-2T	mg/kg	8.8	18.7	11.0	25.4	17.1	12.1	14.3
PCBs									
Aroclor-1016 (PCB-1016)	12674-11-2	ug/kg	44 U	53 U	43 U	56 U	52 U	44 U	56 UJ
Aroclor-1221 (PCB-1221)	11104-28-2	ug/kg	44 U	53 U	43 U	56 U	52 U	44 U	56 UJ
Aroclor-1232 (PCB-1232)	11141-16-5	ug/kg	44 U	53 U	43 U	56 U	52 U	44 U	56 UJ
Aroclor-1242 (PCB-1242)	53469-21-9	ug/kg	1910	204000	43 U	56 U	52 U	44 U	56 UJ
Aroclor-1248 (PCB-1248)	12672-29-6	ug/kg	44 U	53 U	377 J	185	1870	7130	2710 J
Aroclor-1254 (PCB-1254)	11097-69-1	ug/kg	44 U	53 U	281 J	156	588	44 U	806 J
Aroclor-1260 (PCB-1260)	11096-82-5	ug/kg	174	3220	311 J	212	186	310	312 J
Total Organic Carbon (TOC)	TOC	ug/kg	10800000	49700000	19100000	19700000	24300000	11000000	28300000

Table 6
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
Inorganics and PCB Data Summary

Chemical Name	CAS	Units	DSR S4B 6/19/2008 0.5 - 1 ft BGS	DSR S5A 6/19/2008 0 - 0.5 ft BGS	DSR S5B 6/19/2008 0.5 - 1 ft BGS	DSR S6A 6/19/2008 0 - 0.5 ft BGS	DSR S6B 6/19/2008 0.5 - 1 ft BGS	NBR S1A 6/25/2008 0 - 0.5 ft BGS	NBR S1B 6/25/2008 0.5 - 1 ft BGS
Inorganics									
Antimony	7440-36-0T	ug/kg	3200 UJ	2800 UJ	2700 UJ	3000 UJ	2700 UJ	2700 UJ	2700 UJ
Arsenic	7440-38-2T	ug/kg	6200	4100	4000	7800	6900	8200	8800
Barium	7440-39-3T	ug/kg	46900	40200	49600	92100	62600	125000	124000
Beryllium	7440-41-7T	ug/kg	810 U	710 U	680 U	760 U	670 U	660 U	1100
Cadmium	7440-43-9T	ug/kg	1200	710 U	680 U	2000	880	660 U	1100
Chromium Total	7440-47-3T	ug/kg	32500	19000	15300	64000	31300	21900	27500
Copper	7440-50-8T	ug/kg	44900	37800	21000	83300	40000	20300	23300
Cyanide (total)	57-12-5T	ug/kg	350 UJ	330 UJ	270 UJ	330 UJ	300 UJ	310 UJ	280 UJ
Lead	7439-92-1T	ug/kg	52600	37500	25300	122000	49000	10000	9200
Zinc	7440-66-6T	ug/kg	135000	139000	61800	177000	70300	47500	53700
Mercury	7439-97-6T	ug/kg	61	73	40 U	160	81	41 U	44 U
Methyl mercury	22967-92-6	ug/kg	0.116	0.925	0.107	0.374	0.197	0.0626	0.0294
Nickel	7440-02-0T	ug/kg	17500	13600	13800	34600	23000	23100	24900
Selenium	7782-49-2T	ug/kg	3200 U	2800 U	2700 U	3000 U	2700 U	2700 U	2700 U
Silver	7440-22-4T	ug/kg	1600 U	1400 U	1400 U	1800	1300 U	1300 U	1400 U
Thallium	7440-28-0T	ug/kg	1600 U	1400 U	1400 U	1500 U	1300 U	1300 U	1400 U
Zinc	7440-66-6T	ug/kg	135000	139000	61800	177000	70300	47500	53700
Cobalt	7440-48-4T	ug/kg	8100 U	7100 U	6800 U	7600 U	6700	9300	14900
Manganese	7439-96-5T	ug/kg	279000	184000	358000	266000	347000	462000	508000
Vanadium	7440-62-2T	mg/kg	13.9	11.1	16.4	20.5	18.8	25.2	36.3
PCBs									
Aroclor-1016 (PCB-1016)	12674-11-2	ug/kg	52 U	48 U	45 UJ	52 U	46 U	43 U	46 U
Aroclor-1221 (PCB-1221)	11104-28-2	ug/kg	52 U	48 U	45 UJ	52 U	46 U	43 U	46 U
Aroclor-1232 (PCB-1232)	11141-16-5	ug/kg	52 U	48 U	45 UJ	52 U	46 U	43 U	46 U
Aroclor-1242 (PCB-1242)	53469-21-9	ug/kg	9190 J	48 U	45 UJ	52 U	46 U	43 U	46 U
Aroclor-1248 (PCB-1248)	12672-29-6	ug/kg	52 U	671 J	152 J	22500 J	7140	43 U	46 U
Aroclor-1254 (PCB-1254)	11097-69-1	ug/kg	1670 J	335 J	85.9 J	6620 J	2130	43 U	46 U
Aroclor-1260 (PCB-1260)	11096-82-5	ug/kg	548 J	1540 J	56.8 J	1470 J	430	43 U	46 U
Total Organic Carbon (TOC)	TOC	ug/kg	22400000	22600000	5710000	24200000	10100000	11400000	4810000

Table 6
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
Inorganics and PCB Data Summary

Chemical Name	CAS	Units	NBR S2A 6/25/2008 0 - 0.5 ft BGS	NBR S2B 6/25/2008 0.5 - 1 ft BGS	NBR S3A 6/25/2008 0 - 0.5 ft BGS	NBR S3B 6/25/2008 0.5 - 1 ft BGS	SBR S1A 6/24/2008 0 - 0.5 ft BGS	SBR S1B 6/26/2008 0.5 - 1 ft BGS	SBR S2A 6/24/2008 0 - 0.5 ft BGS
Inorganics									
Antimony	7440-36-0T	ug/kg	2500 UJ	2400 UJ	2800 UJ	3100 UJ	2700 UJ	2800 UJ	2600 UJ
Arsenic	7440-38-2T	ug/kg	3900	4000	4800	5100	4800	11000	18300
Barium	7440-39-3T	ug/kg	25000 U	24000 U	28000 U	31000 U	79000	113000	41100
Beryllium	7440-41-7T	ug/kg	630 U	600 U	700 U	770 U	670 U	700	640 U
Cadmium	7440-43-9T	ug/kg	630 U	600 U	700 U	770 U	670 U	1100	640 U
Chromium Total	7440-47-3T	ug/kg	4300	4300	6100	6400	16500	20900	18600
Copper	7440-50-8T	ug/kg	7900	7500	28100	14900	69200	27200	54300
Cyanide (total)	57-12-5T	ug/kg	260 UJ	240 UJ	300 UJ	310 UJ	300 UJ	270 UJ	310 UJ
Lead	7439-92-1T	ug/kg	3700	3400	21800	5500	49200	10800	41600
Zinc	7440-66-6T	ug/kg	24000	22700	36600	39900	161000	56800	179000
Mercury	7439-97-6T	ug/kg	38 U	33 U	42 U	50 U	150	44 U	150
Methyl mercury	22967-92-6	ug/kg	0.16	0.0542	0.358	0.074	1.35	0.076	0.773
Nickel	7440-02-0T	ug/kg	5000 U	5600	6300	7100	16700	27100	17500
Selenium	7782-49-2T	ug/kg	2500 U	2400 U	2800 U	3100 U	2700 U	2800 U	2600 U
Silver	7440-22-4T	ug/kg	1300 U	1200 U	1400 U	1500 U	1300 U	1400 U	1300 U
Thallium	7440-28-0T	ug/kg	1300 U	1200 U	1400 U	1500 U	1300 U	1400 U	1300 U
Zinc	7440-66-6T	ug/kg	24000	22700	36600	39900	161000	56800	179000
Cobalt	7440-48-4T	ug/kg	6300 U	6000 U	7900	7700 U	6700 U	15600	6400 U
Manganese	7439-96-5T	ug/kg	139000	138000	179000	139000	266000	494000	284000
Vanadium	7440-62-2T	mg/kg	6.3 U	6.4	8.3	8.1	12.5	26.5	15.3
PCBs									
Aroclor-1016 (PCB-1016)	12674-11-2	ug/kg	42 U	38 UJ	43 U	50 U	45 UJ	44 U	44 U
Aroclor-1221 (PCB-1221)	11104-28-2	ug/kg	42 U	38 UJ	43 U	50 U	45 UJ	44 U	44 U
Aroclor-1232 (PCB-1232)	11141-16-5	ug/kg	42 U	38 UJ	43 U	50 U	45 UJ	44 U	44 U
Aroclor-1242 (PCB-1242)	53469-21-9	ug/kg	42 U	38 UJ	43 U	50 U	45 UJ	44 U	44 U
Aroclor-1248 (PCB-1248)	12672-29-6	ug/kg	42 U	38 UJ	43 U	50 U	45 UJ	44 U	103
Aroclor-1254 (PCB-1254)	11097-69-1	ug/kg	42 U	38 UJ	43 U	50 U	66.5 J	44 U	71.0
Aroclor-1260 (PCB-1260)	11096-82-5	ug/kg	42 U	38 UJ	43 U	50 U	45 UJ	44 U	44 U
Total Organic Carbon (TOC)	TOC	ug/kg	3080000	1870000	5250000	6250000	27700000	4260000	108000000

Table 6
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
Inorganics and PCB Data Summary

Chemical Name	CAS	Units	SBR S2B 6/26/2008 0.5 - 1 ft BGS	SBR S3A 6/24/2008 0 - 0.5 ft BGS	SBRS3B 6/26/2008 0.5 - 1 ft BGS	SCR S1A 6/24/2008 0 - 0.5 ft BGS	SCR S1B 6/24/2008 0.5 - 1 ft BGS	SCR S2A 6/25/2008 0 - 0.5 ft BGS	SCR S2B 6/25/2008 0.5 - 1 ft BGS
Inorganics									
Antimony	7440-36-0T	ug/kg	2700 UJ	3500 UJ	3200 UJ	2800 UJ	2800 UJ	3000 UJ	2700 UJ
Arsenic	7440-38-2T	ug/kg	11500	6400	6900	18800	9200	6200	7900
Barium	7440-39-3T	ug/kg	73400	66400	83800	138000	134000	65700	119000
Beryllium	7440-41-7T	ug/kg	670 U	880 U	810 U	700 U	710 U	760 U	660 U
Cadmium	7440-43-9T	ug/kg	2000	1400 J	1600	700 U	710 U	760 U	660 U
Chromium Total	7440-47-3T	ug/kg	29200	24200	24600	22600	22300	26700	22100
Copper	7440-50-8T	ug/kg	72900	58800 J	64200	28700	25900	31700	24600
Cyanide (total)	57-12-5T	ug/kg	290 UJ	410 R	350 UJ	300 UJ	280 UJ	370 UJ	310 UJ
Lead	7439-92-1T	ug/kg	78200	56100	63200	15600	12500	28700	12000
Zinc	7440-66-6T	ug/kg	114000	187000	427000	74600	56400	134000	58300
Mercury	7439-97-6T	ug/kg	42 U	140	92	46 U	44 U	98	40 U
Methyl mercury	22967-92-6	ug/kg	0.662	2.95	2.02	0.584	0.0275 U	1.68	0.091
Nickel	7440-02-0T	ug/kg	17400	19000	21300	26700	29400	19700	30100
Selenium	7782-49-2T	ug/kg	2700 U	3500 U	3200 U	2800 U	2800 U	3000 U	2700 U
Silver	7440-22-4T	ug/kg	1300 U	1800 U	1600 U	1400 U	1400 U	1500 U	1300 U
Thallium	7440-28-0T	ug/kg	1300 U	1800 U	1600 U	1400 U	1400 U	1500 U	1300 U
Zinc	7440-66-6T	ug/kg	114000	187000	427000	74600	56400	134000	58300
Cobalt	7440-48-4T	ug/kg	10000	9200	10400	9000	10900	8100	11000
Manganese	7439-96-5T	ug/kg	258000	365000	368000	368000	421000	392000	616000
Vanadium	7440-62-2T	mg/kg	19.2	22.1	21.8	22.3	23.8	15.8	22.7
PCBs									
Aroclor-1016 (PCB-1016)	12674-11-2	ug/kg	45 U	56 UJ	53 U	48 U	44 UJ	51 U	43 U
Aroclor-1221 (PCB-1221)	11104-28-2	ug/kg	45 U	56 UJ	53 U	48 U	44 UJ	51 U	43 U
Aroclor-1232 (PCB-1232)	11141-16-5	ug/kg	45 U	56 UJ	53 U	48 U	44 UJ	51 U	43 U
Aroclor-1242 (PCB-1242)	53469-21-9	ug/kg	45 U	56 UJ	53 U	48 U	44 UJ	51 U	43 U
Aroclor-1248 (PCB-1248)	12672-29-6	ug/kg	74.4	96.8 J	109	48 U	44 UJ	51 U	43 U
Aroclor-1254 (PCB-1254)	11097-69-1	ug/kg	45 U	56 UJ	53 U	48 U	44 UJ	51 U	43 U
Aroclor-1260 (PCB-1260)	11096-82-5	ug/kg	45 U	56 UJ	53 U	178	44 UJ	860	43 U
Total Organic Carbon (TOC)	TOC	ug/kg	17000000	65400000 J	20900000	21400000	11900000	31200000	30200000

Table 6
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
Inorganics and PCB Data Summary

Chemical Name	CAS	Units	SCR S3A 6/25/2008 0 - 0.5 ft BGS	SCR S3B 6/26/2008 0.5 - 1 ft BGS	SRS 1A 6/19/2008 0 - 0.54 ft BGS	SRS 1B 6/19/2008 0.5 - 1 ft BGS	SRS 2A 6/23/2008 0 - 0.5 ft BGS	SRS 2B 6/26/2008 0.5 - 1 ft BGS	SRS 3A 6/23/2008 0 - 0.5 ft BGS
Inorganics									
Antimony	7440-36-0T	ug/kg	2600 UJ	2500 UJ	3100 UJ	2800 UJ	3000 UJ	2600 UJ	3600 UJ
Arsenic	7440-38-2T	ug/kg	7700	6200	5100	4200	4200	4800	3600 U
Barium	7440-39-3T	ug/kg	83700	79900	46100	36700	46100	41200	36000 U
Beryllium	7440-41-7T	ug/kg	650 U	660	780 U	690 U	740 U	660 U	910 U
Cadmium	7440-43-9T	ug/kg	650 U	1200	3600	990	740	660 U	910 U
Chromium Total	7440-47-3T	ug/kg	23800	20200	25000	18800	21600	19600	11300
Copper	7440-50-8T	ug/kg	27800	26600	43100	29600	43900	27600	30800 J
Cyanide (total)	57-12-5T	ug/kg	280 UJ	280 UJ	340 UJ	330 UJ	310 UJ	310 UJ	410 UJ
Lead	7439-92-1T	ug/kg	23300	10400	59700	56000	43900	29500	21600
Zinc	7440-66-6T	ug/kg	57200	55400	142000	106000	150000	71800	72300 J
Mercury	7439-97-6T	ug/kg	39 U	39 U	79	60	80	60	57
Methyl mercury	22967-92-6	ug/kg	0.149	0.0275 U	0.301	0.117	0.529	0.146	0.541
Nickel	7440-02-0T	ug/kg	27500	26600	18200	11300	16100	14400	8100
Selenium	7782-49-2T	ug/kg	2600 U	2500 U	3100 U	2800 U	3000 U	2600 U	3600 U
Silver	7440-22-4T	ug/kg	1300 U	1200 U	1600 U	1400 U	1500 U	1300 U	1800 U
Thallium	7440-28-0T	ug/kg	1300 U	1200 U	1600 U	1400 U	1500 U	1300 U	1800 U
Zinc	7440-66-6T	ug/kg	57200	55400	142000	106000	150000	71800	72300 J
Cobalt	7440-48-4T	ug/kg	10100	15100	7800 U	6900 U	7400 U	6800	9100 U
Manganese	7439-96-5T	ug/kg	437000	461000	196000	157000	206000	176000	107000
Vanadium	7440-62-2T	mg/kg	21.8	24.7	11.1	10	12.3	13.3	9.1 U
PCBs									
Aroclor-1016 (PCB-1016)	12674-11-2	ug/kg	44 U	42 U	52 UJ	48 U	49 U	46 U	57 U
Aroclor-1221 (PCB-1221)	11104-28-2	ug/kg	44 U	42 U	52 UJ	48 U	49 U	46 U	57 U
Aroclor-1232 (PCB-1232)	11141-16-5	ug/kg	44 U	42 U	52 UJ	48 U	49 U	46 U	57 U
Aroclor-1242 (PCB-1242)	53469-21-9	ug/kg	44 U	42 U	52 UJ	48 U	276	1990	277
Aroclor-1248 (PCB-1248)	12672-29-6	ug/kg	44 U	42 U	765 J	48 U	49 U	46 U	57 U
Aroclor-1254 (PCB-1254)	11097-69-1	ug/kg	44 U	42 U	345 J	605	143	46 U	143
Aroclor-1260 (PCB-1260)	11096-82-5	ug/kg	44 U	42 U	205 J	222	113	46 U	103
Total Organic Carbon (TOC)	TOC	ug/kg	21200000	4330000	25600000	26600000	23400000	7860000	25900000

Table 6
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
Inorganics and PCB Data Summary

Chemical Name	CAS	Units	SRS 3B 6/23/2008 0.5 - 1 ft BGS	SRS 4A 6/23/2008 0 - 0.5 ft BGS	SRS 4B 6/23/2008 0.5 - 1 ft BGS	SRS 5A 6/23/2008 0 - 0.5 ft BGS	SRS 5B 6/23/2008 0.5 - 1 ft BGS	SRS 6A 6/24/2008 0 - 0.5 ft BGS	SRS 6B 6/26/2008 0.5 - 1 ft BGS
Inorganics									
Antimony	7440-36-0T	ug/kg	2700 UJ	3000 UJ	3100 UJ	2500 UJ	2700 UJ	3100 UJ	2500 UJ
Arsenic	7440-38-2T	ug/kg	4800	4000	4600	3100	3600	4900	5600
Barium	7440-39-3T	ug/kg	75400	54700	77700	25000 U	27000 U	52900	58200
Beryllium	7440-41-7T	ug/kg	690 U	750 U	770 U	620 U	680 U	770 U	620 U
Cadmium	7440-43-9T	ug/kg	690 U	750 U	770 U	620 U	680 U	3200 J	890
Chromium Total	7440-47-3T	ug/kg	26400	20300	26400	11600	11000	52200 J	16400
Copper	7440-50-8T	ug/kg	26400	43300	41000	26700	13900	23900	21500
Cyanide (total)	57-12-5T	ug/kg	340 UJ	310 UJ	320 UJ	250 UJ	280 UJ	390 R	270 UJ
Lead	7439-92-1T	ug/kg	13600	38700	33400	17400	13700	18200	8000
Zinc	7440-66-6T	ug/kg	51500	148000	117000	61200	51000	86200 J	51200
Mercury	7439-97-6T	ug/kg	70	140	56	37	42 U	48 UJ	41 U
Methyl mercury	22967-92-6	ug/kg	0.385	0.294	0.203	0.262	0.032	0.697	0.0348
Nickel	7440-02-0T	ug/kg	21700	18200	25600	9900	10400	12000 J	20600
Selenium	7782-49-2T	ug/kg	2700 U	3000 U	3100 U	2500 U	2700 U	3100 U	2500 U
Silver	7440-22-4T	ug/kg	1400 U	1500 U	1500 U	1200 U	1400 U	1500 U	1200 U
Thallium	7440-28-0T	ug/kg	1400 U	1500 U	1500 U	1200 U	1400 U	1500 U	1200 U
Zinc	7440-66-6T	ug/kg	51500	148000	117000	61200	51000	86200 J	51200
Cobalt	7440-48-4T	ug/kg	7400	7500 U	7700 U	6200 U	6800 U	7700 U	12300
Manganese	7439-96-5T	ug/kg	422000	182000	285000	192000	246000	330000 J	330000
Vanadium	7440-62-2T	mg/kg	22.4	12.0	17.2	7.2	9.2	8.9	22.5
PCBs									
Aroclor-1016 (PCB-1016)	12674-11-2	ug/kg	48 U	48 U	52 U	40 U	45 U	53 U	43 U
Aroclor-1221 (PCB-1221)	11104-28-2	ug/kg	48 U	48 U	52 U	40 U	45 U	53 U	43 U
Aroclor-1232 (PCB-1232)	11141-16-5	ug/kg	48 U	48 U	52 U	40 U	45 U	53 U	43 U
Aroclor-1242 (PCB-1242)	53469-21-9	ug/kg	48 U	194	127	40 U	45 U	53 U	43 U
Aroclor-1248 (PCB-1248)	12672-29-6	ug/kg	1590	48 U	52 U	204	91.1	597 J	43 U
Aroclor-1254 (PCB-1254)	11097-69-1	ug/kg	48 U	142	135	117	61.8	53 U	43 U
Aroclor-1260 (PCB-1260)	11096-82-5	ug/kg	88.5	120	180	94.2	59.5	324 J	43 U
Total Organic Carbon (TOC)	TOC	ug/kg	12500000	24900000	16700000	33700000	12500000	35600000	3740000

Table 7
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
SVOC Data Summary

Chemical Name	CAS	Units	DSR S1A 6/18/2008 0 - 0.5 ft BGS	DSR S1B 6/18/2008 0.5 - 1 ft BGS	DSR S2A 6/18/2008 0 - 0.5 ft BGS	DSR S2B 6/18/2008 0.5 - 1 ft BGS	DSR S3A 6/18/2008 0 - 0.5 ft BGS	DSR S3B 6/18/2008 0.5 - 1 ft BGS	DSR S4A 6/19/2008 0 - 0.5 ft BGS
SVOCs									
2,4-Dimethylphenol	105-67-9	ug/kg	440 U	530 U	430 U	560 U	520 U	440 U	550 U
2-Methylnaphthalene	91-57-6	ug/kg	170 U	214	194	485	210 U	180 U	192 J
2-Methylphenol	95-48-7	ug/kg	170 U	210 U	170 U	230 U	210 U	180 U	220 U
3&4-Methylphenol	3/4-Cresol	mg/kg	0.17 U	0.21 U	0.198	0.463	0.21 U	0.18 U	0.22 U
Acenaphthene	83-32-9	ug/kg	212	449	307	288	112 J	35.9 J	507
Acenaphthylene	208-96-8	ug/kg	196	428	488	1040	340	114 J	194 J
Anthracene	120-12-7	ug/kg	605	1020	839	1520	599	173 J	1210
Benzo(a)anthracene	56-55-3	ug/kg	1870	2640	2440	3280	1520	427	3120
Benzo(a)pyrene	50-32-8	ug/kg	2050	2670	2500	3420	1640	484	3070
Benzo(b)fluoranthene	205-99-2	ug/kg	2180	2520	2430	3550	1690	507	3270
Benzo(g,h,i)perylene	191-24-2	ug/kg	1390	1650	1490	2140	1130	353	1840
Benzo(k)fluoranthene	207-08-9	ug/kg	1660	2200	2040	2920	1230	371	2640
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	738 U	1750 U	494 U	422 U	730 U	1050 U	1690 U
Butyl benzylphthalate	85-68-7	ug/kg	170 U	210 U	170 U	230 U	210 U	180 U	220 U
Carbazole	86-74-8	ug/kg	338 J	410 J	410 J	297 J	204 J	62.5 J	766 J
Chrysene	218-01-9	ug/kg	2280	3090	2890	4390	1720	471	3530
Dibenz(a,h)anthracene	53-70-3	ug/kg	490	567	537	750	391	123 J	612
Dibenzofuran	132-64-9	ug/kg	170 U	326	221	302	68.1 J	30.6 J	418
Di-n-octyl phthalate	117-84-0	ug/kg	170 U	210 U	170 U	230 U	210 U	180 U	220 U
Fluoranthene	206-44-0	ug/kg	4280	5330	5600	7250	3020	724	6750
Fluorene	86-73-7	ug/kg	243	448	380	764	125 J	41.2 J	544
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1340	1530	1440	2080	1030	324	1830
Naphthalene	91-20-3	ug/kg	84.7 J	283	254	420	72.2 J	42.7 J	368
Phenanthrene	85-01-8	ug/kg	2630	2970	3230	3430	1520	444	5050
Phenol	108-95-2	ug/kg	170 U	210 U	170 U	230 U	210 U	180 U	220 U
Pyrene	129-00-0	ug/kg	4330 J	6540 J	5740 J	8480 J	3330 J	978 J	6800 J

Table 7
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
SVOC Data Summary

Chemical Name	CAS	Units	DSR S4B 6/19/2008 0.5 - 1 ft BGS	DSR S5A 6/19/2008 0 - 0.5 ft BGS	DSR S5B 6/19/2008 0.5 - 1 ft BGS	DSR S6A 6/19/2008 0 - 0.5 ft BGS	DSR S6B 6/19/2008 0.5 - 1 ft BGS	NBR S1A 6/25/2008 0 - 0.5 ft BGS	NBR S1B 6/25/2008 0.5 - 1 ft BGS
SVOCs									
2,4-Dimethylphenol	105-67-9	ug/kg	520 U	480 U	430 UJ	520 U	460 U	380 UJ	420 UJ
2-Methylnaphthalene	91-57-6	ug/kg	623	190 U	170 UJ	114 J	180 U	150 U	170 U
2-Methylphenol	95-48-7	ug/kg	210 U	190 U	170 UJ	210 U	180 U	150 U	170 U
3&4-Methylphenol	3/4-Cresol	mg/kg	0.21 U	0.19 U	0.17 UJ	0.21 U	0.18 U	0.15 U	0.17 U
Acenaphthene	83-32-9	ug/kg	2170	267	46.3 J	257	71.0 J	150 U	170 U
Acenaphthylene	208-96-8	ug/kg	647	371	95.6 J	660	237	150 U	170 U
Anthracene	120-12-7	ug/kg	5870	971	290 J	1100	319	150 U	170 U
Benzo(a)anthracene	56-55-3	ug/kg	19200	2670	931 J	2170	503	29.1 J	170 U
Benzo(a)pyrene	50-32-8	ug/kg	16000	2640	1040 J	2250	486	38.9 J	170 U
Benzo(b)fluoranthene	205-99-2	ug/kg	15300	3370	1080 J	2530	531	34.8 J	170 U
Benzo(g,h,i)perylene	191-24-2	ug/kg	8050	1980	731 J	1590	388	31.0 J	170 U
Benzo(k)fluoranthene	207-08-9	ug/kg	14700	2000	802 J	1900	232	44.6 J	170 U
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	693 U	788 U	476 J	1400	574 U	150 U	170 U
Butyl benzylphthalate	85-68-7	ug/kg	210 U	190 U	170 UJ	210 U	180 U	150 U	170 U
Carbazole	86-74-8	ug/kg	4630	566	124 J	336	88.3 J	150 U	170 U
Chrysene	218-01-9	ug/kg	20100	3320	1140 J	2850	678	44.9 J	170 U
Dibenz(a,h)anthracene	53-70-3	ug/kg	850	709	205 J	538	138 J	150 U	170 U
Dibenzofuran	132-64-9	ug/kg	1870	193	33.0 J	138 J	32.1 J	150 U	170 U
Di-n-octyl phthalate	117-84-0	ug/kg	210 U	190 U	170 UJ	210 U	180 U	150 U	170 U
Fluoranthene	206-44-0	ug/kg	41200	6320	2250 J	5570	1340	70.5 J	170 U
Fluorene	86-73-7	ug/kg	2690	355	68.5 J	268	72.6 J	150 U	170 U
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7760	1850	643 J	1460	337	150 U	170 U
Naphthalene	91-20-3	ug/kg	1100 J	130 J	170 UJ	128 J	39.7 J	150 U	71.1 J
Phenanthrene	85-01-8	ug/kg	39600	3930	917 J	2330	517	39.5 J	170 U
Phenol	108-95-2	ug/kg	210 U	190 U	4830 J	210 U	180 U	150 U	170 U
Pyrene	129-00-0	ug/kg	36000	4950	1930 J	4380	1230	56.6 J	170 U

Table 7
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
SVOC Data Summary

Chemical Name	CAS	Units	NBR S2A 6/25/2008 0 - 0.5 ft BGS	NBR S2B 6/25/2008 0.5 - 1 ft BGS	NBR S3A 6/25/2008 0 - 0.5 ft BGS	NBR S3B 6/25/2008 0.5 - 1 ft BGS	SBR S1A 6/24/2008 0 - 0.5 ft BGS	SBR S1B 6/26/2008 0.5 - 1 ft BGS	SBR S2A 6/24/2008 0 - 0.5 ft BGS
SVOCs									
2,4-Dimethylphenol	105-67-9	ug/kg	380 UJ	380 U	440 U	500 U	480 UJ	450 U	380 UJ
2-Methylnaphthalene	91-57-6	ug/kg	150 UJ	150 U	170 U	200 U	1340	180 U	869
2-Methylphenol	95-48-7	ug/kg	150 U	150 U	170 U	200 U	190 U	180 U	150 U
3&4-Methylphenol	3/4-Cresol	mg/kg	0.15 U	0.15 U	0.17 U	0.2 U	0.19 U	0.18 U	0.239
Acenaphthene	83-32-9	ug/kg	150 UJ	150 U	170 U	200 U	2260	180 U	2750
Acenaphthylene	208-96-8	ug/kg	150 UJ	150 U	170 U	200 U	733	180 U	563
Anthracene	120-12-7	ug/kg	150 UJ	150 U	170 U	128 J	4470	180 U	5780
Benzo(a)anthracene	56-55-3	ug/kg	124 J	40.7 J	66.9 J	362	8280	131 J	14700
Benzo(a)pyrene	50-32-8	ug/kg	109 J	38.1 J	90.4 J	371	7830	115 J	12100
Benzo(b)fluoranthene	205-99-2	ug/kg	117 J	58.7 J	108 J	396	8520	164 J	11600
Benzo(g,h,i)perylene	191-24-2	ug/kg	84.1 J	44.2 J	105 J	262	4710	99.0 J	5890
Benzo(k)fluoranthene	207-08-9	ug/kg	112 J	36.4 J	77.3 J	249	4400	81.8 J	3690
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	97.4 J	1710	170 U	200 U	3960	180 U	355
Butyl benzylphthalate	85-68-7	ug/kg	150 UJ	150 U	170 U	200 U	190 U	180 U	150 U
Carbazole	86-74-8	ug/kg	150 UJ	150 U	170 U	200 U	3060	180 U	4100
Chrysene	218-01-9	ug/kg	160 J	47.7 J	94.5 J	397	8780	154 J	14900
Dibenz(a,h)anthracene	53-70-3	ug/kg	22.9 J	150 U	170 U	185 J	1860	180 U	2470
Dibenzofuran	132-64-9	ug/kg	150 UJ	150 U	170 U	200 U	2400	180 U	2120
Di-n-octyl phthalate	117-84-0	ug/kg	150 UJ	150 U	170 U	200 U	190 U	180 U	150 U
Fluoranthene	206-44-0	ug/kg	323 J	89.6 J	164 J	771	24300	307	31300
Fluorene	86-73-7	ug/kg	150 UJ	150 U	170 U	200 U	2880	180 U	3020
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	73.9 J	150 U	113 J	325	4710	115 J	5890
Naphthalene	91-20-3	ug/kg	150 UJ	150 U	170 U	200 U	2200	180 U	1440
Phenanthrene	85-01-8	ug/kg	150 J	36.6 J	72.2 J	288	24300	151 J	29400
Phenol	108-95-2	ug/kg	150 U	150 U	170 U	200 U	190 U	180 U	150 U
Pyrene	129-00-0	ug/kg	268 J	77.1 J	137 J	641	21700	259	28400

Table 7
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
SVOC Data Summary

Chemical Name	CAS	Units	SBR S2B 6/26/2008 0.5 - 1 ft BGS	SBR S3A 6/24/2008 0 - 0.5 ft BGS	SBRS3B 6/26/2008 0.5 - 1 ft BGS	SCR S1A 6/24/2008 0 - 0.5 ft BGS	SCR S1B 6/24/2008 0.5 - 1 ft BGS	SCR S2A 6/25/2008 0 - 0.5 ft BGS	SCR S2B 6/25/2008 0.5 - 1 ft BGS
SVOCs									
2,4-Dimethylphenol	105-67-9	ug/kg	171 J	560 U	460 U	480 UJ	460 UJ	520 UJ	460 UJ
2-Methylnaphthalene	91-57-6	ug/kg	2130	407	145 J	190 U	180 U	210 U	180 U
2-Methylphenol	95-48-7	ug/kg	102 J	220 U	180 U	190 U	180 U	210 U	180 U
3&4-Methylphenol	3/4-Cresol	mg/kg	0.454	12.7	25.1	0.19 U	0.18 U	0.21 U	0.18 U
Acenaphthene	83-32-9	ug/kg	4640	1750	332	66.0 J	180 U	234	180 U
Acenaphthylene	208-96-8	ug/kg	344	597	350	190 U	180 U	81.9 J	180 U
Anthracene	120-12-7	ug/kg	7990	3310	1060	157 J	180 U	803	180 U
Benzo(a)anthracene	56-55-3	ug/kg	16000	8670	3340	499	180 U	2340	69.5 J
Benzo(a)pyrene	50-32-8	ug/kg	13700	9510	3730	509	180 U	2380	77.3 J
Benzo(b)fluoranthene	205-99-2	ug/kg	13400	9570	4120	409	180 U	2100	80.8 J
Benzo(g,h,i)perylene	191-24-2	ug/kg	6650	5130	2560	318	180 U	1590	51.6 J
Benzo(k)fluoranthene	207-08-9	ug/kg	7550	6700	2290	501	180 U	2050	72.2 J
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	373	1400	1020	190 U	180 U	1990	180 U
Butyl benzylphthalate	85-68-7	ug/kg	170 U	220 U	180 U	190 U	180 U	210 U	180 U
Carbazole	86-74-8	ug/kg	7890	2640	602	118 J	180 U	500	180 U
Chrysene	218-01-9	ug/kg	17100	10400	3990	603	180 U	2650	84.4 J
Dibenz(a,h)anthracene	53-70-3	ug/kg	2570	2010	922	90.8 J	180 U	486	180 U
Dibenzofuran	132-64-9	ug/kg	5600 J	1190	225 J	190 U	180 U	125 J	180 U
Di-n-octyl phthalate	117-84-0	ug/kg	170 U	220 U	180 U	190 U	180 U	210 U	180 U
Fluoranthene	206-44-0	ug/kg	50000	22500	8850	1210	180 U	5290	113 J
Fluorene	86-73-7	ug/kg	5570	1500	475	57.0 J	180 U	234	180 U
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	8630	5220	3120	292	180 U	1500	180 U
Naphthalene	91-20-3	ug/kg	3820	591	208	113 J	180 U	131 J	180 U
Phenanthrene	85-01-8	ug/kg	58700	19400	4930	769	28.5 J	3120	56.4 J
Phenol	108-95-2	ug/kg	204	620	180 U	190 U	180 U	210 U	180 U
Pyrene	129-00-0	ug/kg	36900	20300	7010	1030	180 U	4530	96.5 J

Table 7
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
SVOC Data Summary

Chemical Name	CAS	Units	SCR S3A 6/25/2008 0 - 0.5 ft BGS	SCR S3B 6/26/2008 0.5 - 1 ft BGS	SRS 1A 6/19/2008 0 - 0.54 ft BGS	SRS 1B 6/19/2008 0.5 - 1 ft BGS	SRS 2A 6/23/2008 0 - 0.5 ft BGS	SRS 2B 6/26/2008 0.5 - 1 ft BGS	SRS 3A 6/23/2008 0 - 0.5 ft BGS
SVOCs									
2,4-Dimethylphenol	105-67-9	ug/kg	460 UJ	400 U	530 U	480 U	520 UJ	410 U	540 UJ
2-Methylnaphthalene	91-57-6	ug/kg	180 U	160 U	98.7 J	465	210 U	170 U	112 J
2-Methylphenol	95-48-7	ug/kg	180 U	160 U	210 U	190 U	210 U	170 U	210 U
3&4-Methylphenol	3/4-Cresol	mg/kg	0.18 U	0.16 U	0.21 U	0.19 U	0.21 U	0.17 U	0.21 U
Acenaphthene	83-32-9	ug/kg	180 U	160 U	358	2290	274	118 J	703 J
Acenaphthylene	208-96-8	ug/kg	180 U	160 U	428	613	287	89.5 J	209 J
Anthracene	120-12-7	ug/kg	180 U	160 U	1260	7550	888	243	1750
Benzo(a)anthracene	56-55-3	ug/kg	37.6 J	160 U	3180	15600	2960	729	3720 J
Benzo(a)pyrene	50-32-8	ug/kg	180 U	160 U	2990	12500	3130	855	3620
Benzo(b)fluoranthene	205-99-2	ug/kg	32.9 J	160 U	3560	12300	3170	914	3480 J
Benzo(g,h,i)perylene	191-24-2	ug/kg	180 U	160 U	2120	6940	2200	578	2380 J
Benzo(k)fluoranthene	207-08-9	ug/kg	180 U	160 U	2450	10500	2470	513	2960
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	180 U	160 U	1390	1040	623	582	458 J
Butyl benzylphthalate	85-68-7	ug/kg	180 U	160 U	210 U	190 U	210 U	170 U	210 U
Carbazole	86-74-8	ug/kg	180 U	160 U	706	4550	552	118 J	1060 J
Chrysene	218-01-9	ug/kg	48.2 J	160 U	3840	15200	3520	851	4100 J
Dibenz(a,h)anthracene	53-70-3	ug/kg	180 U	160 U	768	2710	698	219	755 J
Dibenzofuran	132-64-9	ug/kg	180 U	160 U	266	1720	190 J	62.8 J	446 J
Di-n-octyl phthalate	117-84-0	ug/kg	180 U	160 U	676	190 U	210 U	170 U	210 U
Fluoranthene	206-44-0	ug/kg	62.3 J	40.1 J	7230	32800	6590	1730	8640 J
Fluorene	86-73-7	ug/kg	180 U	160 U	443	3290	311	97.6 J	750 J
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	180 U	160 U	1920	6890	2040	723	2270 J
Naphthalene	91-20-3	ug/kg	180 U	160 U	139 J	777 J	156 J	78.4 J	292 J
Phenanthrene	85-01-8	ug/kg	48.6 J	40.1 J	5040	33000	3760	932	6740 J
Phenol	108-95-2	ug/kg	180 U	160 U	210 U	190 U	210 U	170 U	210 U
Pyrene	129-00-0	ug/kg	56.9 J	35.6 J	5980	27100	5810	1540	7460 J

Table 7
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
SVOC Data Summary

Chemical Name	CAS	Units	SRS 3B 6/23/2008 0.5 - 1 ft BGS	SRS 4A 6/23/2008 0 - 0.5 ft BGS	SRS 4B 6/23/2008 0.5 - 1 ft BGS	SRS 5A 6/23/2008 0 - 0.5 ft BGS	SRS 5B 6/23/2008 0.5 - 1 ft BGS	SRS 6A 6/24/2008 0 - 0.5 ft BGS	SRS 6B 6/26/2008 0.5 - 1 ft BGS
SVOCs									
2,4-Dimethylphenol	105-67-9	ug/kg	470 UJ	490 UJ	470 UJ	400 UJ	430 UJ	2200 U	390 U
2-Methylnaphthalene	91-57-6	ug/kg	190 U	190 U	190 U	333 J	170 U	995	160 U
2-Methylphenol	95-48-7	ug/kg	190 U	190 U	190 U	160 U	170 U	890 U	160 U
3&4-Methylphenol	3/4-Cresol	mg/kg	0.19 U	0.19 U	0.19 U	0.16 U	0.17 U	0.89 U	0.16 U
Acenaphthene	83-32-9	ug/kg	190 U	292	260	915 J	61.3 J	2860	160 U
Acenaphthylene	208-96-8	ug/kg	50.8 J	338	232	340 J	118 J	272 J	160 U
Anthracene	120-12-7	ug/kg	190 U	1070	723	1800 J	240	4750	160 U
Benzo(a)anthracene	56-55-3	ug/kg	165 J	2920	2100	4540 J	634	12100	87.4 J
Benzo(a)pyrene	50-32-8	ug/kg	189 J	2980	2110	4520 J	639	11000	78.8 J
Benzo(b)fluoranthene	205-99-2	ug/kg	131 J	3060	2030	4050 J	480	10400	93.2 J
Benzo(g,h,i)perylene	191-24-2	ug/kg	125 J	2030	1390	2770 J	422	5440	73.8 J
Benzo(k)fluoranthene	207-08-9	ug/kg	178 J	2160	1710	3390 J	483	8440	73.6 J
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	190 U	585	355	329 J	99.6 J	890 U	160 U
Butyl benzylphthalate	85-68-7	ug/kg	190 U	190 U	190 U	160 UJ	170 U	890 U	160 U
Carbazole	86-74-8	ug/kg	190 U	504	440	1140 J	63.0 J	4290	160 U
Chrysene	218-01-9	ug/kg	244	3430	2500	4820 J	750	12300	95.8 J
Dibenz(a,h)anthracene	53-70-3	ug/kg	38.3 J	598	418	944 J	116 J	2050	160 U
Dibenzofuran	132-64-9	ug/kg	190 U	179 J	157 J	729 J	170 U	2880 J	160 U
Di-n-octyl phthalate	117-84-0	ug/kg	190 U	190 U	190 U	160 UJ	170 U	890 U	160 U
Fluoranthene	206-44-0	ug/kg	417	6510	4980	9700 J	1490	31900	174
Fluorene	86-73-7	ug/kg	190 U	343	290	945 J	75.2 J	2790	160 U
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	109 J	1920	1290	2700 J	376	7710	85.8 J
Naphthalene	91-20-3	ug/kg	190 U	123 J	116 J	813 J	170 U	2670	160 U
Phenanthrene	85-01-8	ug/kg	264	3880	3270	7360 J	757	29500	72.9 J
Phenol	108-95-2	ug/kg	190 U	190 U	190 U	160 U	170 U	890 U	160 U
Pyrene	129-00-0	ug/kg	420	5620	4330	7620 J	1330	23200	157 J

Table 8
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
Acid-Volatile Sulfide (AVS)\Simultaneously Extracted Metals (SEM) Data Summary

Chemical Name	CAS	Units	DSR S1A Sediment 6/18/2008 0 - 0.5 ft BGS	DSR S1B Sediment 6/18/2008 0.5 - 1 ft BGS	DSR S2A Sediment 6/18/2008 0 - 0.5 ft BGS	DSR S2B Sediment 6/18/2008 0.5 - 1 ft BGS	DSR S3A Sediment 6/18/2008 0 - 0.5 ft BGS	DSR S3B Sediment 6/18/2008 0.5 - 1 ft BGS	DSR S4A Sediment 6/19/2008 0 - 0.5 ft BGS	DSR S4B Sediment 6/19/2008 0.5 - 1 ft BGS
Acid Volatile Sulfide	AVS	umol/g	0.97	2.7	1.1	1.3	2.3	0.87	1.9	2.7
Cadmium	7440-43-9T	umol/g	0.0039	0.042	0.0052	0.012	0.0053	0.0028	0.0085	0.0086
Copper	7440-50-8T	umol/g	0.30 J	0.40 J	0.20 J	0.20 J	0.063 J	0.75 J	0.27 J	0.20 J
Lead	7439-92-1T	umol/g	0.13	0.47	0.14	0.20	0.16	0.096	0.23	0.17
Mercury	7439-97-6T	umol/g	< 0.000032 R	< 0.000040 R	< 0.000032 R	< 0.000042 R	< 0.000039 R	< 0.000032 R	< 0.000042 R	< 0.000037 R
Nickel	7440-02-0T	umol/g	0.10	1.1	0.085	0.13	0.11	0.099	0.14	0.12
Zinc	7440-66-6T	umol/g	1.3	3.8	1.0	0.94	1.9	0.84	2.3	1.8
SEM/AVS Ratio	SEMAVSRATIO	mole ratio	1.89	2.17	1.33	1.18	0.953	2.05	1.55	0.864

Notes:
J - Estimated
U - Not detected
R - Rejected
UJ - Not detected, estimated reporting limit

Table 8
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
Acid-Volatile Sulfide (AVS)\Simultaneously Extracted Metals (SEM) Data Summary

Chemical Name	CAS	Units	DSR S5A Sediment 6/19/2008 0 - 0.5 ft BGS	DSR S5B Sediment 6/19/2008 0.5 - 1 ft BGS	DSR S6A Sediment 6/19/2008 0 - 0.5 ft BGS	DSR S6B Sediment 6/19/2008 0.5 - 1 ft BGS	NBR S1A Sediment 6/25/2008 0 - 0.5 ft BGS	NBR S1B Sediment 6/25/2008 0.5 - 1 ft BGS	NBR S2A Sediment 6/25/2008 0 - 0.5 ft BGS	NBR S2B Sediment 6/25/2008 0.5 - 1 ft BGS
Acid Volatile Sulfide	AVS	umol/g	1.4	1.5	2.4	1.5	< 0.066 UJ	< 0.068 UJ	1.7 J	1.3 J
Cadmium	7440-43-9T	umol/g	0.0042	0.0017	0.012	0.0043	0.0016	0.0019	< 0.0014 U	0.0012
Copper	7440-50-8T	umol/g	0.21 J	0.12 J	0.72 J	0.37 J	0.18 J	0.18 J	0.054 J	0.083 J
Lead	7439-92-1T	umol/g	0.13	0.053	0.40	0.15	0.022	0.018	0.013	0.020
Mercury	7439-97-6T	umol/g	< 0.000035 R	< 0.000032 R	< 0.000039 R	0.000060 J	< 0.000032 R	< 0.000033 R	< 0.000031 R	< 0.000028 R
Nickel	7440-02-0T	umol/g	0.095	0.053	0.27	0.17	0.12	0.14	0.029	0.031
Zinc	7440-66-6T	umol/g	1.5	0.54	2.0	0.66	0.36 J	0.36 J	0.27 J	0.22 J
SEM/AVS Ratio	SEMAVSRATIO	mole ratio	1.39	0.524	1.41	0.914	10.9	25.0	0.187	0.273

Notes:
J - Estimated
U - Not detected
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UJ - Not detected, estimated reporting limit

Table 8
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
Acid-Volatile Sulfide (AVS)\Simultaneously Extracted Metals (SEM) Data Summary

Chemical Name	CAS	Units	NBR S3A Sediment 6/25/2008 0 - 0.5 ft BGS	NBR S3B Sediment 6/25/2008 0.5 - 1 ft BGS	SBR S1A Sediment 6/24/2008 0 - 0.5 ft BGS	SBR S1B Sediment 6/26/2008 0.5 - 1 ft BGS	SBR S2A Sediment 6/24/2008 0 - 0.5 ft BGS	SBR S2B Sediment 6/26/2008 0.5 - 1 ft BGS	SBR S3A Sediment 6/24/2008 0 - 0.5 ft BGS	SBRS3B Sediment 6/26/2008 0.5 - 1 ft BGS
Acid Volatile Sulfide	AVS	umol/g	1.8 J	2.1 J	0.87 J	< 0.67 UJ	1.0 J	1.7 J	0.60 J	1.4 J
Cadmium	7440-43-9T	umol/g	< 0.0015 U	0.0017	0.0052	0.0022	0.0061	0.0075	0.0084	0.0070
Copper	7440-50-8T	umol/g	0.077 J	0.088 J	0.45 J	0.24 J	0.56 J	0.50 J	0.76 J	0.57 J
Lead	7439-92-1T	umol/g	0.015	0.020	0.38	0.031	0.17	0.12	0.27 J	0.24
Mercury	7439-97-6T	umol/g	< 0.000033 R	< 0.000036 R	< 0.000032 R	< 0.000031 R	< 0.000032 R	< 0.000032 R	< 0.000042 R	< 0.000039 R
Nickel	7440-02-0T	umol/g	0.036	0.037	0.13	0.13	0.14	0.16	0.19 J	0.20
Zinc	7440-66-6T	umol/g	0.31 J	0.49 J	1.5 J	0.38 J	1.8 J	1.3 J	2.5 J	2.0 J
SEM/AVS Ratio	SEMAVSRATIO	mole ratio	0.243	0.303	2.83	3.75	2.68	1.23	6.21	2.16

Notes:
J - Estimated
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Table 8
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
Acid-Volatile Sulfide (AVS)\Simultaneously Extracted Metals (SEM) Data Summary

Chemical Name	CAS	Units	SCR S1A Sediment 6/24/2008 0 - 0.5 ft BGS	SCR S1B Sediment 6/24/2008 0.5 - 1 ft BGS	SCR S2A Sediment 6/25/2008 0 - 0.5 ft BGS	SCR S2B Sediment 6/25/2008 0.5 - 1 ft BGS	SCR S3A Sediment 6/25/2008 0 - 0.5 ft BGS	SCR S3B Sediment 6/26/2008 0.5 - 1 ft BGS	SRS 1A Sediment 6/19/2008 0 - 0.54 ft BGS	SRS 1B Sediment 6/19/2008 0.5 - 1 ft BGS
Acid Volatile Sulfide	AVS	umol/g	1.1 J	< 0.067 UJ	2.4 J	0.15 J	< 0.066 UJ	< 0.65 UJ	2.0	2.5
Cadmium	7440-43-9T	umol/g	0.0027	0.0021	0.0044	0.0022	0.0021	0.0022	0.0060	0.0060
Copper	7440-50-8T	umol/g	0.20 J	0.22 J	0.41 J	0.21 J	0.24 J	0.24 J	0.32 J	0.17 J
Lead	7439-92-1T	umol/g	0.037	0.019	0.12	0.029	0.027	0.024	0.18	0.18
Mercury	7439-97-6T	umol/g	< 0.000034 R	< 0.000032 R	< 0.000037 R	< 0.000031 R	< 0.000030 R	< 0.000030 R	< 0.000038 R	< 0.000035 R
Nickel	7440-02-0T	umol/g	0.13	0.14	0.17	0.16	0.15	0.14	0.14	0.089
Zinc	7440-66-6T	umol/g	0.66 J	0.38 J	1.7 J	0.40 J	0.43 J	0.38 J	1.8	1.3
SEM/AVS Ratio	SEMAVSRATIO	mole ratio	0.936	38.1	0.989	5.34	17.0	13.6	1.22	0.708

Notes:
J - Estimated
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Table 8
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
Acid-Volatile Sulfide (AVS)\Simultaneously Extracted Metals (SEM) Data Summary

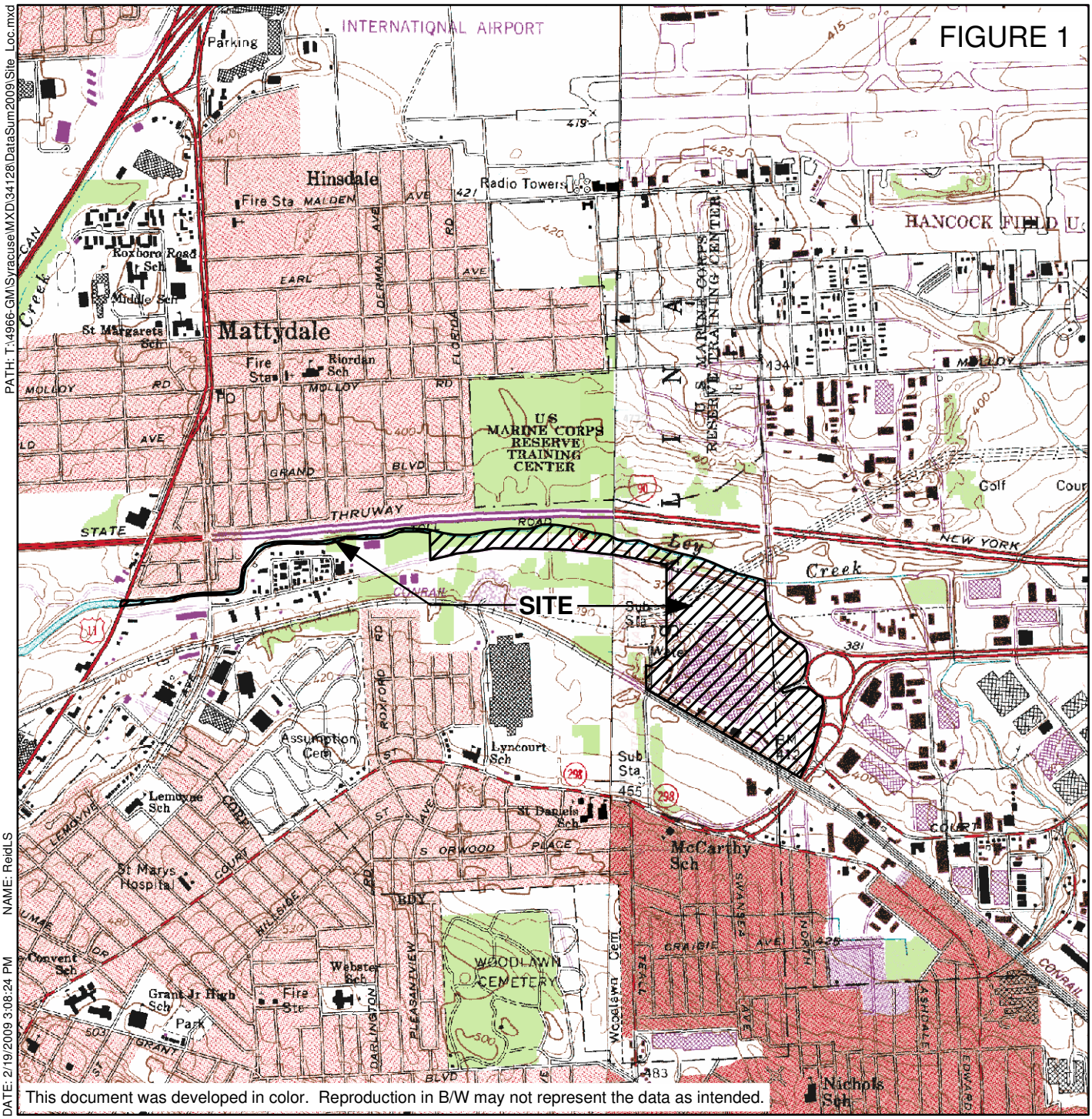
Chemical Name	CAS	Units	SRS 2A Sediment 6/23/2008 0 - 0.5 ft BGS	SRS 2B Sediment 6/26/2008 0.5 - 1 ft BGS	SRS 3A Sediment 6/23/2008 0 - 0.5 ft BGS	SRS 3B Sediment 6/23/2008 0.5 - 1 ft BGS	SRS 4A Sediment 6/23/2008 0 - 0.5 ft BGS	SRS 4B Sediment 6/23/2008 0.5 - 1 ft BGS	SRS 5A Sediment 6/23/2008 0 - 0.5 ft BGS	SRS 5B Sediment 6/23/2008 0.5 - 1 ft BGS
Acid Volatile Sulfide	AVS	umol/g	1.5 J	1.9 J	1.5 J	< 0.71 UJ	0.88 J	2.7 J	1.2 J	0.96 J
Cadmium	7440-43-9T	umol/g	0.0069	0.0040	0.0052	0.0044	0.0059	0.0054	0.0038	0.0021
Copper	7440-50-8T	umol/g	0.42 J	0.25 J	0.35 J	0.24 J	0.31 J	0.038 J	0.17 J	0.054 J
Lead	7439-92-1T	umol/g	0.15	0.083	0.13	0.040	0.15	0.12	0.072	0.054
Mercury	7439-97-6T	umol/g	< 0.000037 R	< 0.000034 R	< 0.000041 R	< 0.000035 R	< 0.000034 R	< 0.000038 R	< 0.000029 R	< 0.000032 R
Nickel	7440-02-0T	umol/g	0.14	0.12	0.11	0.16	0.17	0.21	0.068	0.070
Zinc	7440-66-6T	umol/g	1.7 J	0.81 J	1.6 J	0.43 J	1.8 J	1.5 J	0.97 J	0.55 J
SEM/AVS Ratio	SEMAVSRATIO	mole ratio	1.61	0.667	1.48	2.08	2.76	0.683	1.05	0.761

Notes:
J - Estimated
U - Not detected
R - Rejected
UJ - Not detected, estimated reporting limit

Table 8
General Motors Former IFG Facility
Syracuse, New York
June 2008 Ley Creek Sediment Sampling Event
Acid-Volatile Sulfide (AVS)\Simultaneously Extracted Metals (SEM) Data Summary

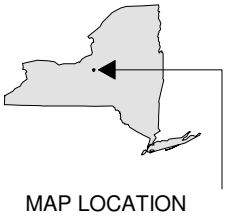
Chemical Name	CAS	Units	SRS 6A Sediment 6/24/2008 0 - 0.5 ft BGS	SRS 6B Sediment 6/26/2008 0.5 - 1 ft BGS
Acid Volatile Sulfide	AVS	umol/g	1.2 J	< 0.64 UJ
Cadmium	7440-43-9T	umol/g	0.0047	0.0019
Copper	7440-50-8T	umol/g	0.18 J	0.17 J
Lead	7439-92-1T	umol/g	0.096 J	0.021
Mercury	7439-97-6T	umol/g	< 0.000039 R	< 0.000030 R
Nickel	7440-02-0T	umol/g	0.097	0.13
Zinc	7440-66-6T	umol/g	0.99 J	0.33 J
SEM/AVS Ratio	SEMAVSRATIO	mole ratio	1.14	1.93

Notes:
J - Estimated
U - Not detected
R - Rejected
UJ - Not detected, estimated reporting limit



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ADAPTED FROM: SYRACUSE EAST AND WEST, NEW YORK USGS QUADRANGLES



MAP LOCATION

GENERAL MOTORS CORP.
SYRACUSE, NEW YORK

SITE LOCATION

N

0 1,000 2,000 4,000 6,000 8,000

Feet

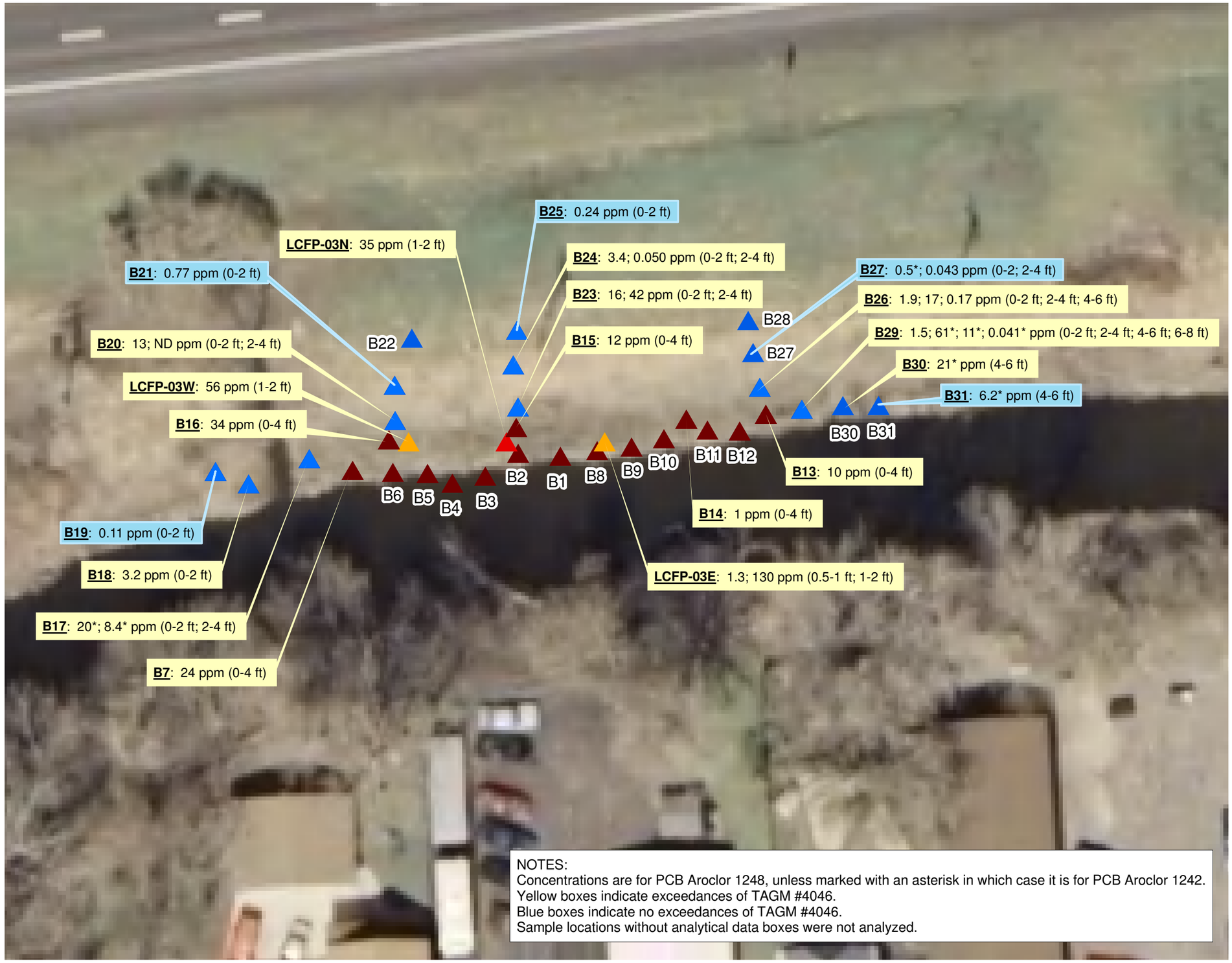
FEBRUARY 2009
4966.34128

1:24,000

O'BRIEN & GERE

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FIGURE 2



NOTES:
Concentrations are for PCB Aroclor 1248, unless marked with an asterisk in which case it is for PCB Aroclor 1242.
Yellow boxes indicate exceedances of TAGM #4046.
Blue boxes indicate no exceedances of TAGM #4046.
Sample locations without analytical data boxes were not analyzed.

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Basemap Source: 2006 Orthoimagery, NYS GIS Clearinghouse (http://www.nysgis.state.ny.us/)

LEGEND

- 2007 SAMPLE LOCATION
- 2004 SAMPLE LOCATION
- 2003 SAMPLE LOCATION
- 2005 SAMPLE LOCATION

NOTE: BORING LOCATIONS ACQUIRED FROM A TRIMBLE PRO XRS GPS UNIT

GENERAL MOTORS CORP.
SYRACUSE, NEW YORK

FLOODPLAIN SOIL SAMPLE LOCATIONS AND ANALYTICAL RESULTS SUMMARY

0 12.5 25 50
Feet

FEBRUARY 2009
4966.34128

O'BRIEN & GERE

DATE: 2/18/2009 3:21:18 PM NAME: ReidLS

PATH: T:\4966-GM\Syracuse\MXD\34128\DataSum2009\WSED_LOCS.mxd



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Basemap Source: 2006 Orthoimagery, NYS GIS Clearinghouse (http://www.nysgis.state.ny.us)

FIGURE 3

N

SAMPLE TYPE

- PREVIOUS NIMO SAMPLE LOCATION
- MAY 2002 GM SAMPLE LOCATION
- OCTOBER 2003 SAMPLE LOCATION
- JUNE 2004 SAMPLE LOCATION
- MARCH 2005 SAMPLE LOCATION
- MAY 2006 SAMPLE LOCATION
- JUNE 2008 SAMPLE LOCATION

GENERAL MOTORS CORP.
SYRACUSE, NEW YORK

NATIONAL GRID WETLAND - SEDIMENT SAMPLE LOCATIONS

0 65 130 260
Feet

MARCH 2009
4966.34128

O'BRIEN & GERE

NAME: RedLS

DATE: 3/30/2009 11:41:01 AM

PATH: T:\4966-GM\Syracuse\MXD\34128\DataSum2009\FISH_SAMPLE_STUDY_AREA.mxd



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DATE: 2/19/2009 9:14:16 AM NAME: ReidLS

FIGURE 4

N

GENERAL MOTORS CORP.
SYRACUSE, NEW YORK

FISH SAMPLING SITE AND DOWNSTREAM STUDY AREAS

0 375 750 1,500
Feet

FEBRUARY 2009
4966.34128

O'BRIEN & GERE

PATH: T:\4966-GM\Syracuse\MXD\34128\DataSum2009\UPSTREAM_FISH_STUDY_AREA.mxd

FIGURE 5



N

GENERAL MOTORS CORP.
SYRACUSE, NEW YORK

FISH SAMPLING UPSTREAM STUDY AREAS

0 400 800 1,600
Feet

FEBRUARY 2009
4966.34128

O'BRIEN & GERE

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Basemap Source: 2006 Orthoimagery, NYS GIS Clearinghouse (http://www.nysgis.state.ny.us/)

DATE: 2/19/2009 10:37:15 AM NAME: ReidLS

PATH: T:\4966-GM\Syracuse\MXD\34128\DataSum2009\2008_Sed_Locs.mxd

FIGURE 6



N

LEGEND

SEDIMENT SAMPLING LOCATION

GENERAL MOTORS CORP.
SYRACUSE, NEW YORK

2008 SEDIMENT SAMPLING LOCATIONS

0 600 1,200 2,400
Feet

FEBRUARY 2009
4966.34128

O'BRIEN & GERE

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Basemap Source: 2006 Orthoimagery, NYS GIS Clearinghouse (http://www.nysgis.state.ny.us)

DATE: 2/19/2009 12:57:22 PM NAME: ReidLS

APPENDIX A

National Grid Wetland Sediment Data Summary

FIGURE 1

SAMPLE LOCATIONS

- PREVIOUS NIMO SAMPLE LOCATION
- MAY 2002 GM SAMPLE LOCATION
- OCTOBER 2003 SAMPLE LOCATION
- JUNE 2004 SAMPLE LOCATION
- MARCH 2005 SAMPLE LOCATION
- MAY 2006 SAMPLE LOCATION
- JUNE 2008 SAMPLE LOCATION

GENERAL MOTORS CORP.
SYRACUSE, NEW YORK

NATIONAL GRID WETLAND - SEDIMENT SAMPLE LOCATIONS

ORGANIC DATA

0 65 130 260
Feet

MARCH 2009
4966.34128

O'BRIEN & GERE

PATH: I:\Gm-Corp.4966\34128.Syracuse-Sr-Fs\Dwg\MXD\NIMO_Wetland\DB_Org_LOCS.mxd
NAME: ReidLS
DATE: 3/24/2009 4:32:44 PM

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WLSD06-7

DATE	DEPTH	PARAMETER	RESULT	UNITS
6/2/2004	0 - 0.5	PCB-1242	6.8 J	mg/kg
6/2/2004	0 - 0.5	TOC	13000.0	mg/kg
6/2/2004	0.5 - 1	PCB-1248	0.09 JP	mg/kg
6/2/2004	0.5 - 1	TOC	40000.0	mg/kg

WLSD06-4

DATE	DEPTH	PARAMETER	RESULT	UNITS
6/2/2004	0 - 0.5	PCB-1242	4.5	mg/kg
6/2/2004	0 - 0.5	TOC	38800.0	mg/kg
6/2/2004	0.5 - 1	PCB-1242	17 NJP	mg/kg
6/2/2004	0.5 - 1	TOC	60000.0	mg/kg

WLSD06-10

DATE	DEPTH	PARAMETER	RESULT	UNITS
6/2/2004	0 - 0.5	PCB-1242	370 J	mg/kg
6/2/2004	0.5 - 1	TOC	63200.0	mg/kg
5/3/2006	1.83 - 2.83	PCB-1242	230 J	mg/kg
5/3/2006	1.83 - 2.83	TOC	84500.0	mg/kg

WLSD06-5

DATE	DEPTH	PARAMETER	RESULT	UNITS
6/2/2004	0 - 0.5	PCB-1248	110.0 J	mg/kg
6/2/2004	0 - 0.5	TOC	56500.0	mg/kg
6/2/2004	0.5 - 1	PCB-1248	4.3	mg/kg
6/2/2004	0.5 - 1	TOC	50800.0	mg/kg

WLSD01-1

DATE	DEPTH	PARAMETER	RESULT	UNITS
6/2/2004	0 - 0.5	PCB-1242	18.5 J	mg/kg
6/2/2004	0 - 0.5	TOC	22000.0	mg/kg
6/2/2004	0.5 - 1	PCB-1242	2.4 J	mg/kg
6/2/2004	0.5 - 1	TOC	11000.0	mg/kg
6/2/2004	1 - 1.4	PCB-1242	7.5	mg/kg
6/2/2004	1 - 1.4	TOC	46000.0	mg/kg

WLSD08-1

DATE	DEPTH	PARAMETER	RESULT	UNITS
6/2/2004	0 - 0.5	PCB-1242	1200 J	mg/kg
6/2/2004	0.5 - 1	PCB-1242	240 JP	mg/kg
6/2/2004	0.5 - 1	TOC	69900.0	mg/kg

WLSD08-2

DATE	DEPTH	PARAMETER	RESULT	UNITS
6/2/2004	0 - 0.5	TOC	47000.0	mg/kg
6/2/2004	0.5 - 1	TOC	24300.0	mg/kg
6/2/2004	0.5 - 1	PCB-1242	200 JP	mg/kg
6/2/2004	0.5 - 1	TOC	68900.0	mg/kg

WLSD08-3

DATE	DEPTH	PARAMETER	RESULT	UNITS
6/11/2008	2.5 - 3	TOC	42000.0	mg/kg
6/11/2008	3 - 3.5	TOC	44200.0	mg/kg

WLSD08-4

DATE	DEPTH	PARAMETER	RESULT	UNITS
6/11/2008	0 - 0.5	TOC	52100.0	mg/kg
6/11/2008	0.5 - 1	TOC	56800.0	mg/kg
6/11/2008	1 - 2	TOC	11200.0	mg/kg
6/11/2008	2 - 3	TOC	1480.0	mg/kg

WLSD08-5

DATE	DEPTH	PARAMETER	RESULT	UNITS
6/11/2008	0 - 0.5	TOC	58900.0	mg/kg
6/11/2008	0.5 - 1	TOC	44100.0	mg/kg
6/11/2008	1 - 2	TOC	14900.0	mg/kg
6/11/2008	2.4 - 3	TOC	6670.0	mg/kg

WLSD08-6

DATE	DEPTH	PARAMETER	RESULT	UNITS
5/3/2006	0 - 0.67	PCB-1242	0.26 J	mg/kg
5/3/2006	0 - 0.67	TOC	38500.0	mg/kg
5/3/2006	0.67 - 1.67	PCB-1242	0.46 J	mg/kg
5/3/2006	0.67 - 1.67	TOC	64700.0	mg/kg
5/3/2006	1.17 - 1.92	TOC	3230.0	mg/kg
5/3/2006	1.92 - 3	PCB-1242	0.46 J	mg/kg
5/3/2006	1.92 - 3	TOC	1960.0	mg/kg

WLSD08-7

DATE	DEPTH	PARAMETER	RESULT	UNITS
6/11/2008	0 - 0.5	TOC	58900.0	mg/kg
6/11/2008	0.5 - 1	TOC	44100.0	mg/kg
6/11/2008	1 - 2	TOC	14900.0	mg/kg
6/11/2008	2.4 - 3	TOC	6670.0	mg/kg

WLSD06-2

DATE	DEPTH	PARAMETER	RESULT	UNITS
5/3/2006	0 - 0.58	PCB-1242	0.33 J	mg/kg
5/3/2006	0 - 0.58	TOC	3230.0	mg/kg
5/3/2006	0.58 - 1.58	PCB-1242	0.46 J	mg/kg
5/3/2006	0.58 - 1.58	TOC	36500.0	mg/kg
5/3/2006	1.58 - 1.92	PCB-1242	0.11 J	mg/kg
5/3/2006	1.58 - 1.92	TOC	6260.0	mg/kg
5/3/2006	1.92 - 2.92	PCB-1242	0.26 J	mg/kg
5/3/2006	1.92 - 2.92	TOC	1470.0	mg/kg

WLSD08-8

DATE	DEPTH	PARAMETER	RESULT	UNITS
6/11/2008	0 - 0.5	TOC	59400.0	mg/kg
6/11/2008	0.5 - 1	TOC	43600.0	mg/kg
6/11/2008	1 - 2	TOC	7280.0	mg/kg
6/11/2008	2.17 - 3	TOC	4900.0	mg/kg

SM-104

DATE	DEPTH	PARAMETER	RESULT	UNITS
2005	NA	PCB-1254	0.55	mg/kg
2005	NA	PCB-1260	0.71	mg/kg

SED-02-5

DATE	DEPTH	PARAMETER	RESULT	UNITS
5/14/2002	0 - 0.5	Benzo(a)anthracene	0.18 J	mg/kg
5/14/2002	0 - 0.5	Methylene chloride	0.004 J	mg/kg
5/14/2002	0 - 0.5	PCB-1248	0.03	mg/kg
5/14/2002	0 - 0.5	Pyrene	0.068 J	mg/kg
5/14/2002	0 - 0.5	TOC	30300.0	mg/kg

SED-02-38

DATE	DEPTH	PARAMETER	RESULT	UNITS
5/14/2002	0.5 - 1	Methylene chloride	0.002 J	mg/kg
5/14/2002	0.5 - 1	PCB-1248	0.02 J	mg/kg
5/14/2002	0.5 - 1	TOC	9900.0	mg/kg

WLSED03-1

DATE	DEPTH	PARAMETER	RESULT	UNITS
10/13/2003	0 - 0.5	PCB-1248	0.83 J	mg/kg
10/13/2003	0.5 - 1	TOC	26700.0	mg/kg
10/13/2003	0.5 - 1	TOC	16300.0	mg/kg

WLSED03-7

DATE	DEPTH	PARAMETER	RESULT	UNITS
10/13/2003	0 - 0.5	TOC	43600.0	mg/kg
10/13/2003	0.5 - 1	TOC	9730.0	mg/kg

WLSED03-3

DATE	DEPTH	PARAMETER	RESULT	UNITS
10/13/2003	0 - 0.5	PCB-1248	0.087 J	mg/kg
10/13/2003	0.5 - 1	TOC	59000.0	mg/kg
10/13/2003	0.5 - 1	TOC	29400.0	mg/kg

SED-05-01-D

DATE	DEPTH	PARAMETER	RESULT	UNITS
5/13/2005	0 - 0.5	PCB-1248	0.06	mg/kg

SM-1

DATE	DEPTH	PARAMETER	RESULT	UNITS
10/1/1998	NA	Anthracene	0.067 J	mg/kg
10/1/1998	NA	Benzo(a)anthracene	0.17 J	mg/kg
10/1/1998	NA	Benzo(a)Pyrene	0.14 J	mg/kg
10/1/1998	NA	Benzo(b)Fluoranthene	0.14 J	mg/kg
10/1/1998	NA	Benzo(g,h,i)Perylene	0.113 J	mg/kg
10/1/1998	NA	Benzo(k)Fluoranthene	0.113 J	mg/kg
10/1/1998	NA	Bis(2-Ethylhexyl)Phthalate	0.17 JB	mg/kg
10/1/1998	NA	Chrysene	0.19 J	mg/kg
10/1/1998	NA	Dibenz(a,h)Anthracene	0.043 J	mg/kg
10/1/1998	NA	Fluoranthene	0.27 J	mg/kg
10/1/1998	NA	Indeno(1,2,3-cd)Pyrene	0.13 J	mg/kg
10/1/1998	NA	PCB-1248	0.21 P	mg/kg
10/1/1998	NA	Pyrene	0.23 J	mg/kg
10/1/1998	NA	TOC	17000	mg/kg

SM-2

DATE	DEPTH	PARAMETER	RESULT	UNITS
10/1/1998	NA	Anthracene	0.13 J	mg/kg
10/1/1998	NA	Benzo(a)Anthracene	0.83	mg/kg
10/1/1998	NA	Benzo(a)Pyrene	0.67	mg/kg
10/1/1998	NA	Benzo(b)Fluoranthene	0.67	mg/kg
10/1/1998	NA	Benzo(g,h,i)Perylene	0.69 J	mg/kg
10/1/1998	NA	Benzo(k)Fluoranthene	0.68	mg/kg
10/1/1998	NA	Bis(2-Ethylhexyl)Phthalate	0.24 JB	mg/kg
10/1/1998	NA	Carbazole	0.1 J	mg/kg
10/1/1998	NA	Chrysene	0.95	mg/kg
10/1/1998	NA	Dibenz(a,h)Anthracene	0.19 J	mg/kg
10/1/1998	NA	Fluoranthene	1.6	mg/kg
10/1/1998	NA	Fluorene	0.078 J	mg/kg
10/1/1998	NA	Indeno(1,2,3-cd)Pyrene	0.63 J	mg/kg
10/1/1998	NA	PCB-1248	0.19	mg/kg
10/1/1998	NA	Phenanthrene	0.79 J	mg/kg
10/1/1998	NA	Pyrene	1.6	mg/kg
10/1/1998	NA	TOC	46700	mg/kg
10/1/1998	NA	TOC	170000	mg/kg

SM-3

DATE	DEPTH	PARAMETER	RESULT	UNITS
10/1/1998	NA	Benzo(a)Anthracene	0.13 J	mg/kg
10/1/1998	NA	Benzo(a)Pyrene	0.15 J	mg/kg
10/1/1998	NA	Benzo(b)Fluoranthene	0.14 J	mg/kg
10/1/1998	NA	Benzo(g,h,i)Perylene	0.15 J	mg/kg
10/1/1998	NA	Benzo(k)Fluoranthene	0.13 J	mg/kg
10/1/1998	NA	Bis(2-Ethylhexyl)Phthalate	0.18 JB	mg/kg
10/1/1998	NA	Chrysene	0.18 J	mg/kg
10/1/1998	NA	Fluoranthene	0.26 J	mg/kg
10/1/1998	NA	Indeno(1,2,3-cd)Pyrene	0.1 J	mg/kg
10/1/1998	NA	PCB-1248	0.014	mg/kg
10/1/1998	NA	Phenanthrene	0.15 J	mg/kg
10/1/1998	NA	Pyrene	0.27 J	mg/kg
10/1/1998	NA	TOC	30200	mg/kg

SM-4

DATE	DEPTH	PARAMETER	RESULT	UNITS
10/1/1998	NA	Benzo(a)Anthracene	0.13 J	mg/kg
10/1/1998	NA	Benzo(a)Pyrene	0.15 J	mg/kg
10/1/1998	NA	Benzo(b)Fluoranthene	0.14 J	mg/kg
10/1/1998	NA	Benzo(g,h,i)Perylene	0.15 J	mg/kg
10/1/1998	NA	Benzo(k)Fluoranthene	0.13 J	mg/kg
10/1/1998	NA	Bis(2-Ethylhexyl)Phthalate	0.18 JB	mg/kg
10/1/1998	NA	Chrysene	0.18 J	mg/kg
10/1/1998	NA	Fluoranthene	0.26 J	mg/kg
10/1/1998	NA	Indeno(1,2,3-cd)Pyrene	0.1 J	mg/kg
10/1/1998	NA	PCB-1248	0.014	mg/kg
10/1/1998	NA	Phenanthrene	0.15 J	mg/kg
10/1/1998	NA	Pyrene	0.27 J	mg/kg
10/1/1998	NA	TOC	30200	mg/kg

SM-5

DATE	DEPTH	PARAMETER	RESULT	UNITS
10/1/1998	NA	Benzo(a)Anthracene	0.13 J	mg/kg
10/1/1998	NA	Benzo(a)Pyrene	0.15 J	mg/kg
10/1/1998	NA	Benzo(b)Fluoranthene	0.14 J	mg/kg
10/1/1998	NA	Benzo(g,h,i)Perylene	0.15 J	mg/kg
10/1/1998	NA	Benzo(k)Fluoranthene	0.13 J	mg/kg
10/1/1998	NA	Bis(2-Ethylhexyl)Phthalate	0.18 JB	mg/kg
10/1/1998	NA	Chrysene	0.18 J	mg/kg
10/1/1998	NA	Fluoranthene	0.26 J	mg/kg
10/1/1998	NA	Indeno(1,2,3-cd)Pyrene	0.1 J	mg/kg
10/1/1998	NA	PCB-1248	0.014	mg/kg
10/1/1998	NA	Phenanthrene	0.15 J	mg/kg
10/1/1998	NA	Pyrene	0.27 J	mg/kg
10/1/1998	NA	TOC	30200	mg/kg

SM-6

DATE	DEPTH	PARAMETER	RESULT	UNITS
10/1/1998	NA	Benzo(a)Anthracene	0.13 J	mg/kg
10/1/1998	NA	Benzo(a)Pyrene	0.15 J	mg/kg
10/1/1998	NA	Benzo(b)Fluoranthene	0.14 J	mg/kg
10/1/1998	NA	Benzo(g,h,i)Perylene	0.15 J	mg/kg
10/1/1998	NA	Benzo(k)Fluoranthene	0.13 J	mg/kg
10/1/1998	NA	Bis(2-Ethylhexyl)Phthalate	0.18 JB	mg/kg
10/1/1998	NA	Chrysene	0.18 J	mg/kg
10/1/1998	NA	Fluoranthene	0.26 J	mg/kg
10/1/1998	NA	Indeno(1,2,3-cd)Pyrene	0.1 J	mg/kg
10/1/1998	NA	PCB-1248	0.014	mg/kg
10/1/1998	NA	Phenanthrene	0.15 J	mg/kg
10/1/1998	NA	Pyrene	0.27 J	mg/kg
10/1/1998	NA	TOC	30200	mg/kg

SM-101

DATE	DEPTH	PARAMETER	RESULT	UNITS
10/1/1998	NA	Benzo(a)Anthracene	0.13 J	mg/kg
10/1/1998	NA	Benzo(a)Pyrene	0.15 J	mg/kg
10/1/1998	NA	Benzo(b)Fluoranthene	0.14 J	mg/kg
10/1/1998	NA	Benzo(g,h,i)Perylene	0.15 J	mg/kg
10/1/1998	NA	Benzo(k)Fluoranthene	0.13 J	mg/kg
10/1/1998	NA	Bis(2-Ethylhexyl)Phthalate	0.18 JB	mg/kg
10/1/1998	NA	Chrysene	0.18 J	mg/kg
10/1/1998	NA	Fluoranthene	0.26 J	mg/kg
10/1/1998	NA	Indeno(1,2,3-cd)Pyrene	0.1 J	mg/kg
10/1/1998	NA	PCB-1248	0.014	mg/kg
10/1/1998	NA	Phenanthrene	0.15 J	mg/kg
10/1/1998	NA	Pyrene	0.27 J	mg/kg
10/1/1998	NA	TOC	30200	mg/kg

SM-102

DATE	DEPTH	PARAMETER	RESULT	UNITS
10/1/1998	NA	Benzo(a)Anthracene	0.13 J	mg/kg
10/1/1998	NA	Benzo(a)Pyrene	0.15 J	mg/kg
10/1/1998	NA	Benzo(b)Fluoranthene	0.14 J	mg/kg
10/1/1998	NA	Benzo(g,h,i)Perylene	0.15 J	mg/kg
10/1/1998	NA	Benzo(k)Fluoranthene	0.13 J	mg/kg
10/1/1998	NA	Bis(2-Ethylhexyl)Phthalate	0.18 JB	mg/kg
10/1/1998	NA	Chrysene	0.18 J	mg/kg
10/1/1998	NA	Fluoranthene	0.26 J	mg/kg
10/1/1998	NA	Indeno(1,2,3-cd)Pyrene	0.1 J	mg/kg
10/1/1998	NA	PCB-1248	0.014	mg/kg
10/1/1998	NA	Phenanthrene	0.15 J	mg/kg
10/1/1998	NA	Pyrene	0.27 J	mg/kg
10/1/1998	NA	TOC	30200	mg/kg

SM-103

DATE	DEPTH	PARAMETER	RESULT	UNITS
10/1/1998	NA	Benzo(a)Anthracene	0.13 J	mg/kg
10/1/1998	NA	Benzo(a)Pyrene	0.15 J	mg/kg
10/1/1998	NA	Benzo(b)Fluoranthene	0.14 J	mg/kg
10/1/1998	NA	Benzo(g,h,i)Perylene	0.15 J	mg/kg
10/1/1998	NA	Benzo(k)Fluoranthene	0.13 J	mg/kg
10/1/1998	NA	Bis(2-Ethylhexyl)Phthalate	0.18 JB	mg/kg
10/1/1998	NA	Chrysene	0.18 J	mg/kg
10/1/1998	NA	Fluoranthene	0.26 J	mg/kg
10/1/1998	NA	Indeno(1,2,3-cd)Pyrene	0.1 J	mg/kg
10/1/1998	NA	PCB-1248	0.014	mg/kg
10/1/1998	NA	Phenanthrene	0.15 J	mg/kg
10/1/1998	NA	Pyrene	0.27 J	mg/kg
10/1/1998	NA	TOC	30200	mg/kg

SM-104 Dilution

DATE	DEPTH	PARAMETER	RESULT	UNITS
2005	NA	PCB-1254	0.55 D	mg/kg
2005	NA	PCB-1260	0.71 D	mg/kg

SM-105

DATE	DEPTH	PARAMETER	RESULT	UNITS
10/1/1998	NA	Benzo(a)Anthracene	0.077 J	mg/kg
10/1/1998	NA	Benzo(a)Pyrene	0.082 J	mg/kg
10/1/1998	NA	Benzo(b)Fluoranthene	0.092 J	mg/kg
10/1/1998	NA	Benzo(k)Fluoranthene	0.1 J	mg/kg
10/1/1998	NA	Bis(2-Ethylhexyl)Phthalate	0.17 JB	mg/kg
10/1/1998	NA	Chrysene	0.097 J	mg/kg
10/1/1998	NA	Dibenz(a,h)Anthracene	0.047 J	mg/kg
10/1/1998	NA	Fluoranthene	0.14 J	mg/kg
10/1/1998	NA	Indeno(1,2,3-cd)Pyrene	0.062 J	mg/kg
10/1/1998	NA	PCB-1248	0.11	mg/kg
10/1/1998	NA	Phenanthrene	0.078 J	mg/kg
10/1/1998	NA	Pyrene	0.15 J	mg/kg
10/1/1998	NA	TOC	18500	mg/kg

SM-106

DATE	DEPTH	PARAMETER	RESULT	UNITS
5/3/2006	1 - 1.83	PCB-1242	47.5 J	mg/kg
5/3/2006	1 - 1.83	TOC	13800.0	mg/kg
5/3/2006	1.83 - 2.83	PCB-1242	0.68 J	mg/kg
5/3/2006	1.83 - 2.83	TOC	6170.0	mg/kg

SED-02-3A

DATE	DEPTH	PARAMETER	RESULT	UNITS
5/14/2002	0 - 0.5	Acetone	0.084 J	mg/kg
5/14/2002	0 - 0.5	Benzo(a)anthracene	0.11 J	mg/kg
5/14/2002	0 - 0.5	Benzo(a)pyrene	0.11 J	mg/kg
5/14/2002	0 - 0.5	Benzo(b)fluoranthene	0.19 J	mg/kg
5/14/2002	0 - 0.5	Benzo(k)fluoranthene	0.21 J	mg/kg
5/14/2002	0 - 0.5	Chrysene	0.14 J	mg/kg
5/14/2002	0 - 0.5	cis-1,2-Dichloroethene	0.007 J	mg/kg
5/14/2002	0 - 0.5	Fluoranthene	0.22 J	mg/kg
5/14/2002	0 - 0.5	Methylene chloride	0.004 J	mg/kg
5/14/2002	0 - 0.5	PCB-1248	4.6	mg/kg
5/14/2002	0 - 0.5	Phenanthrene	0.12 J	mg/kg
5/14/2002	0 - 0.5	Pyrene	0.22 J	mg/kg
5/14/2002	0 - 0.5	TOC	35700.0 J	mg/kg
5/14/2002	0 - 0.5	trans-1,2-Dichloroethene	0.001 J	mg/kg
5/14/2002	0 - 0.5	Trichloroethene	0.002 J	mg/kg

SED-02-3B

DATE	DEPTH	PARAMETER	RESULT	UNITS
5/14/2002	0.5 - 1	Benzo(b)fluoranthene	0.079 J	mg/kg
5/14/2002	0.5 - 1	Benzo(k)fluoranthene	0.12 J	mg/kg
5/14/2002	0.5 - 1	Chrysene	0.052 J	mg/kg
5/14/2002	0.5 - 1	cis-1,2-Dichloroethene	0.004 J	mg/kg
5/14/2002	0.5 - 1	Fluoranthene	0.081 J	mg/kg
5/14/2002	0.5 - 1	Methylene chloride	0.005 J	mg/kg
5/14/2002	0.5 - 1	PCB-1248	1.6	mg/kg
5/14/2002	0.5 - 1	Pyrene	0.081 J	mg/kg
5/14/2002	0.5 - 1	TOC	16200.0 J	mg/kg
5/14/2002	0.5 - 1	trans-1,2-Dichloroethene	0.001 J	mg/kg

SED-02-3A

DATE	DEPTH	PARAMETER	RESULT	UNITS
5/14/2002	0 - 0.5	Acetone	0.14	mg/kg
5/14/2002	0 - 0.5	Benzo(a)anthracene	0.11 J	mg/kg
5/14/2002	0 - 0.5	Benzo(a)pyrene	0.12 J	mg/kg
5/14/2002	0 - 0.5	Benzo(b)fluoranthene	0.22 J	mg/kg
5/14/2002	0 - 0.5	Benzo(k)fluoranthene	0.23 J	mg/kg
5/14/2002	0 - 0.5	Chrysene	0.16 J	mg/kg
5/14/2002	0 - 0.5	Dibenz(a,h)anthracene	0.05 J	mg/kg
5/14/2002	0 - 0.5	Ethylbenzene	0.017 J	mg/kg
5/14/2002	0 - 0.5	Fluoranthene	0.254 J	mg/kg
5/14/2002	0 - 0.5	Fluorene	0.28 J	mg/kg
5/14/2002	0 - 0.5	Indeno(1,2,3-cd)pyrene	0.084 J	mg/kg
5/14/2002	0 - 0.5	Methylene chloride	0.006 J	mg/kg
5/14/2002	0 - 0.5	PCB-1248	0.55	mg/kg
5/14/2002	0 - 0.5	Phenanthrene	0.13 J	mg/kg
5/14/2002	0 - 0.5	Pyrene	0.26 J	mg/kg
5/14/2002	0 - 0.5	TOC	22700.0	mg/kg
5/14/2002	0 - 0.5	Toluene	0.014	mg/kg

WLSD06-3

DATE	DEPTH	PARAMETER	RESULT	UNITS
6/2/2004	0 - 0.5	PCB-1248	962 J	mg/kg
6/2/2004	0 - 0.5	TOC	68700.0	mg/kg
6/2/2004	0.5 - 1	PCB-1248	12.0	mg/kg
6/2/2004	0.5 - 1	TOC	54300.0	mg/kg
6/2/2004	1 - 1.4	PCB-1248	3.3	mg/kg
6/2/2004	1 - 1.4	TOC	54200.0	mg/kg
6/2/2004	1.4 - 1.8	PCB-1248	3.3	mg/kg
6/2/2004	1.4 - 1.8	TOC	83400.0	mg/kg
6/2/2004	1.8 - 2.3	PCB-1248	0.82	mg/kg
6/2/2004	1.8 - 2.3	TOC	550.0	mg/kg

SED-02-3

DATE	DEPTH	PARAMETER	RESULT	UNITS
10/13/2003	0 - 0.5	PCB-1248	962 J	mg/kg
10/13/2003	0 - 0.5	TOC	82000.0	mg/kg
10/13/2003	0.5 - 1	PCB-1248	490.0	mg/kg
10/13/2003	0.5 - 1	TOC	85200.0	mg/kg

WLSD06-8

DATE	DEPTH	PARAMETER	RESULT	UNITS
5/3/2006	1 - 1.83	PCB-1242	47.5 J	mg/kg
5/3/2006	1 - 1.83	TOC	13800.0 J	mg/kg
5/3/2006	1.83 - 2.83	PCB-1242	18.6 J	mg/kg
5/3/2006	1.83 - 2.83	TOC	12400.0 J	mg/kg

SED-02-3-4

DATE	DEPTH	PARAMETER	RESULT	UNITS
10/13/2003	0 - 0.5	PCB-1248	2.3 J	mg/kg
10/13/2003	0 - 0.5	TOC	74400.0	mg/kg
10/13/2003	0.5 - 1	TOC	67300.0	mg/kg

SED-02-3A

DATE	DEPTH	PARAMETER	RESULT	UNITS
5/14/2002	0 - 0.5	Anthracene	0.1 J	mg/kg
5/14/2002	0 - 0.5	Benzo(a)anthracene	0.26 J	mg/kg
5/14/2002	0 - 0.5	Benzo(a)pyrene	0.33 J	mg/kg
5/14/2002	0 - 0.5	Benzo(b)fluoranthene	0.52 J	mg/kg
5/14/2002	0 - 0.5	Benzo(g,h,i)perylene	0.2 J	mg/kg
5/14/2002	0 - 0.5	Benzo(k)fluoranthene	0.18 J	mg/kg
5/14/2002	0 - 0.5	Bis(2-Ethylhexyl)phthalate	0.13 J	mg/kg
5/14/2002	0 - 0.5	Chrysene	0.4 J	mg/kg
5/14/2002	0 - 0.5	Fluoranthene	0.61 J	mg/kg
5/14/2002	0 - 0.5	Indeno(1,2,3-cd)pyrene	0.13 J	mg/kg
5/14/2002	0 - 0.5	Methylene chloride	0.01 J	mg/kg
5/14/2002	0 - 0.5	PCB-1248	0.57	mg/kg
5/14/2002	0 - 0.5	Phenanthrene	0.36 J	mg/kg
5/14/2002	0 - 0.5	Pyrene	0.67 J	mg/kg
5/14/2002	0 - 0.5	TOC	81400.0 J	mg/kg

SED-02-3B

DATE	DEPTH	PARAMETER	RESULT	UNITS
5/14/2002	0.5 - 1	Benzo(a)anthracene	0.08 J	mg/kg
5/14/2002	0.5 - 1	Benzo(a)pyrene	0.11 J	mg/kg
5/14/2002	0.5 - 1	Benzo(b)fluoranthene	0.17 J	mg/kg
5/14/2002	0.5 - 1	Chrysene	0.11 J	mg/kg
5/14/2002	0.5 - 1	Fluoranthene	0.2 J	mg/kg
5/14/2002	0.5 - 1	Methylene chloride	0.006 J	mg/kg
5/14/2002	0.5 - 1	PCB-1248	8.6	mg/kg
5/14/2002	0.5 - 1	Phenanthrene	0.11 J	mg/kg
5/14/2002	0.5 - 1	Pyrene	0.22 J	mg/kg
5/14/2002	0.5 - 1	TOC	83400.0 J	mg/kg

WLSD05-3

DATE	DEPTH	PARAMETER	RESULT	UNITS
5/3/2006	1 - 1.83	PCB-1242	18.5 J	mg/kg
5/3/2006	1 - 1.83	TOC	35800.0	mg/kg
5/3/2006	1.67 - 2.5	PCB-1242	7.7 J	mg/kg
5/3/2006	1.67 - 2.5	TOC	41500.0	mg/kg

WLSD06-1

DATE	DEPTH	PARAMETER	RESULT	UNITS
6/2/2004	0 - 0.5	PCB-1248	48.5 J	mg/kg
6/2/2004	0 - 0.5	TOC	13800.0	mg/kg
6/2/2004	0.5 - 1	PCB-1248	0.03 JP	mg/kg
6/2/2004	0.5 - 1	TOC	36500.0	mg/kg
6/2/2004	1 - 1.5	TOC	18900.0	mg/kg
6/2/2004	1.5 - 2.25	TOC	13100.0	mg/kg

SED-02-4A

DATE	DEPTH	PARAMETER	RESULT	UNITS
5/14/2002	0 - 0.5	Benzo(a)anthracene	0.078 J	mg/kg
5/14/2002	0 - 0.5	Benzo(a)pyrene	0.061 J	mg/kg
5/14/2002	0 - 0.5	Benzo(b)fluoranthene	0.11 J	mg/kg
5/14/2002	0 - 0.5	Chrysene	0.095 J	mg/kg
5/14/2002	0 - 0.5	Fluoranthene	0.16 J	mg/kg
5/14/2002	0 - 0.5	Methylene chloride	0.008 J	mg/kg
5/14/2002	0 - 0.5	PCB-1248	0.082	mg/kg
5/14/2002	0 - 0.5	Phenanthrene	0.082 J	mg/kg
5/14/2002	0 - 0.5	Pyrene	0.41 J	mg/kg
5/14/2002	0 - 0.5	TOC	64600.0 J	mg/kg

SED-02-4B

DATE	DEPTH	PARAMETER	RESULT	UNITS
5/14/2002	0.5 - 1	PCB-1248	0.01 J	mg/kg
5/14/2002	0.5 - 1	TOC	61300 J	mg/kg

SM-103 Dilution

| DATE | DEPTH | PARAMETER | RESUL

FIGURE 2

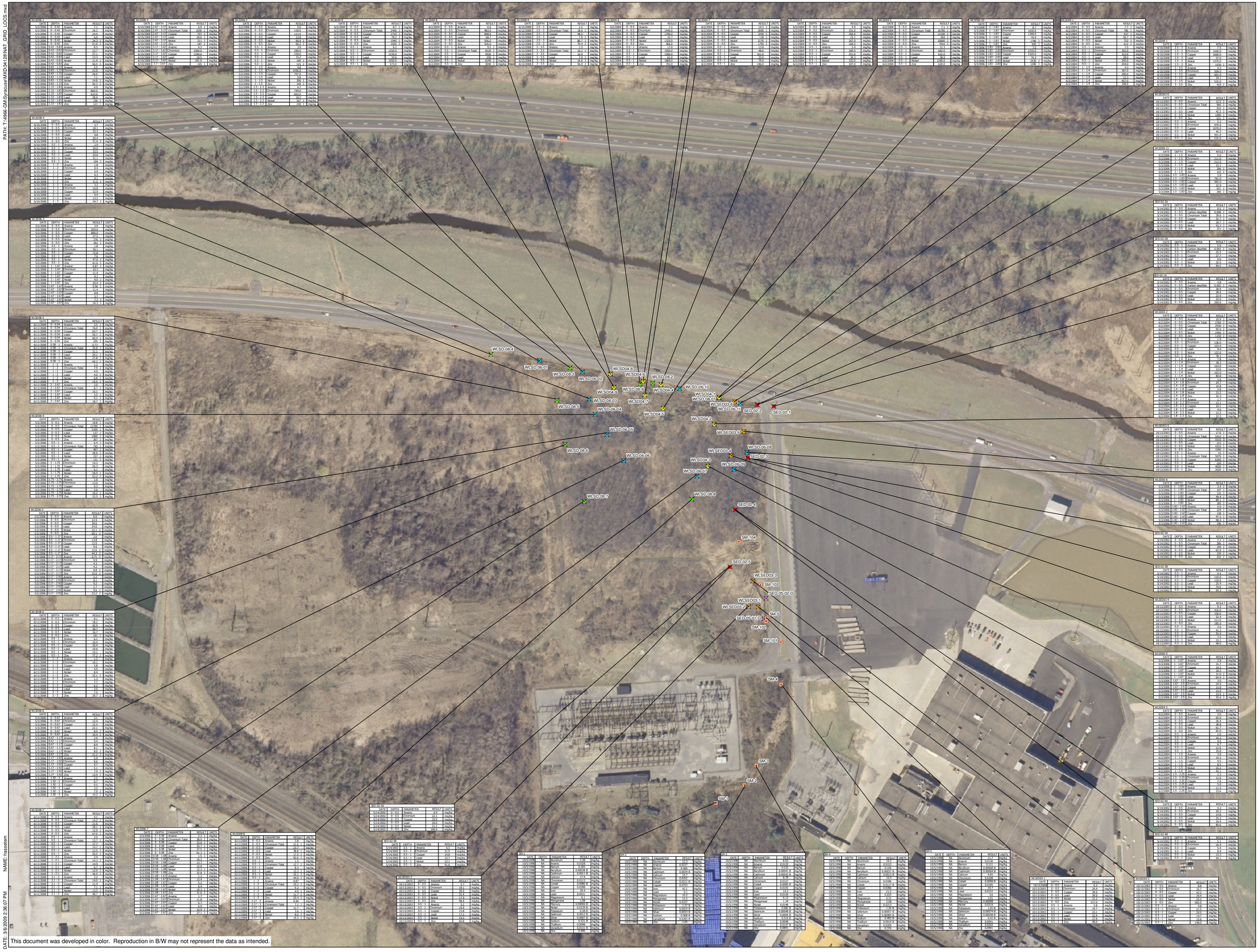

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EXHIBIT A

February 6 and October 23, 2008 Conestoga-Rovers & Associates Data Quality Assessments and Validations – Floodplain Soil Sampling

CONESTOGA-ROVERS & ASSOCIATES

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MEMORANDUM

TO: Clare Leary [learycf@obg.com]

REF. NO.: 012650-017011

FROM: Kathleen Willy/jbh/7 KWilly

DATE: January 30, 2008
Revised: February 6, 2008
E-Mail and Hard Copy if Requested

C.C. Maureen Markert [markerms@obg.com]

RE: **Data Quality Assessment and Validation**
Floodplain Soil Sampling
General Motors Syracuse Main Site
Syracuse, New York
August 16, 2007

The following details a quality assessment and validation of the analytical data resulting from the August 16, 2007, collection of 18 soil and one quality control sample (QC) from the General Motors (GM) Syracuse Main Site in Syracuse, New York. The sample summary detailing sample identification, sample location, QC samples, and analytical parameters is presented in Table 1. Polychlorinated biphenyl (PCB) sample analysis was completed at H2M Laboratories (H2M) in Melville, New York, in accordance with the methodologies presented in Table 2. The QC criteria used to assess the data were established by the methods and following documents:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99/008, October 1999; and

ii) "Supplemental Remedial Investigation/Feasibility Study Former Inland Fisher Guide Facility and Ley Creek Deferred Media", General Motors Corporation, Syracuse, New York, October 1999.

Full Contract Laboratory Program (CLP)-equivalent raw data deliverables were provided by the laboratory. The data quality assessment and validation presented in the following subsections were performed based on the sample results and supporting quality assurance/quality control (QA/QC) provided.

Holding Time Period and Sample Analysis

All samples were properly cooled to 4°C (±2°C) after collection.

The holding time periods are presented in the analytical methods. All samples were prepared and analyzed within the method-required holding times.

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Initial Calibration – Gas Chromatography (GC)

To quantify compounds of interest, calibration of the GC over a specific concentration range must be performed. Initially, calibration curves of PCBs 1016 and 1260 are analyzed. PCBs 1016 and 1260, which include many of the peaks representative of the other five Aroclors, are sufficient to demonstrate linearity for all PCBs. Single points of the remaining PCBs are analyzed to aid in identification and pattern recognition.

Linearity of the calibration curves are acceptable if percent relative standard deviation (%RSD) values are less than or equal to 20 percent or if the correlation coefficient is greater than 0.995. Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses. Additionally, the PCB peak patterns are used as a secondary means of identification.

Initial calibration standards are analyzed at the required frequencies. All retention time and linearity criteria were satisfied.

Continuing Calibration - Organics, GC

To ensure that the calibration of the instrument is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the PCB calibration, percent difference (%D) values are calculated for each compound in all continuing standards and assessed against an acceptance criterion of 15 percent.

To ensure that compound retention times do not vary over the analysis period, all retention times must fall within the established retention time windows.

Continuing calibration standards for PCBs were analyzed at the required frequency and all method criteria were met for analyte linearity.

Method Blank Samples

Method blanks are prepared and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the procedures.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for the analytes of interest indicating no laboratory-attributable contamination occurred.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

In accordance with the methods employed, all samples, blanks, and standards analyzed for PCBs are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of individual sample matrices on analytical efficiency and are assessed against the laboratory developed control limits. Some samples had one surrogate out on one column due to sample matrix interference. The remaining surrogate recoveries were within the laboratory specified control limits and the samples were judged acceptable without qualification.

Laboratory Control Sample (LCS) Analysis

The LCS serves as a measure of overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch.

LCSs were prepared and analyzed for all parameters. The LCS recoveries were within the laboratory specified control limits for all analytes of interest demonstrating acceptable overall analytical accuracy.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD samples are prepared using a representative subset of analytes and analyzed with each sample batch for the organic parameters. MS samples are prepared and analyzed with the samples for each metal. The recoveries of spike analyses are used to assess the analytical accuracy achieved on individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

MS or MS/MSD analyses were performed for all parameters. The MS or MS/MSD recoveries were within laboratory control limits with the following exception:

i) PCB recoveries could not be assessed for MS/MSD samples due to high concentrations of PCB 1248 present in the samples. Accuracy for this parameter was assessed based on the acceptable LCS recoveries; precision could not be assessed.

Field Duplicates

Field duplicate samples were collected and submitted "blind" to the laboratory for analysis as shown in Table 1. All results demonstrated acceptable reproducibility outside of the estimated regions of detection.

Target Compound Identification

To minimize erroneous compound identification during PCB analysis, qualitative criteria including compound retention time and peak patterns were evaluated according to identification criteria established by the methods. The samples identified in Table 1 were reviewed. The PCBs reported were those that best matched the pattern observed in the samples. Additionally, samples with high levels of PCBs present could mask the presence of low levels of the other PCBs.

Compound Quantitation

The reported quantitation results and detection limits were checked to ensure results reported were accurate. The samples identified in Table 1 were reviewed. No discrepancies were found between the raw data and the sample results reported by the laboratory.

System Performance

System performance between various QC checks was evaluated to monitor for changes that may have caused the degradation of data quality. The samples identified in Table 1 were reviewed. No technical problems or chromatographic anomalies were observed which require qualification of the data.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used as reported.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
FLOODPLAIN SOIL SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
AUGUST 16, 2007

Sample ID	*Location ID*	*Start Depth (ft bgs)*	*End Depth (ft bgs)*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Analysis/Parameters* PCBs	*Comments*
S-081607-ER-B17-(0-2)	B17	0	2	08/16/07	9:30	X	
S-081607-ER-B17-(2-4)	B17	2	4	08/16/07	9:31	X	
S-081607-ER-B18-(0-2)	B18	0	2	08/16/07	9:45	X	taken off hold on 8/24/07
S-081607-ER-B19-(0-2)	B19	0	2	08/16/07	9:56	X	taken off hold on 9/5/07
S-081607-ER-B20-(0-2)	B20	0	2	08/16/07	10:10	X	MS/MSD
S-081607-ER-B20-(2-4)	B20	2	4	08/16/07	10:14	X	
S-081607-ER-B23-(0-2)	B23	0	2	08/16/07	10:17	X	
S-081607-ER-B23-(2-4)	B23	2	4	08/16/07	10:20	X	
S-081607-ER-B21-(0-2)	B21	0	2	08/16/07	10:40	X	taken off hold on 8/24/07
S-081607-ER-B24-(0-2)	B24	0	2	08/16/07	10:50	X	taken off hold on 8/24/07
S-081607-ER-B25-(0-2)	B25	0	2	08/16/07	11:05	X	taken off hold on 9/5/07
S-081607-ER-B29-(0-2)	B29	0	2	08/16/07	13:10	X	
S-081607-ER-B29-(2-4)	B29	2	4	08/16/07	13:11	X	
S-081607-ER-B29-(4-6)	B29	4	6	08/16/07	13:14	X	MS/MSD
S-081607-ER-B29-(6-7)	B29	6	7	08/16/07	13:15	X	
S-081607-ER-B26-(0-2)	B26	0	2	08/16/07	13:20	X	MS/MSD
S-081607-ER-B26-(2-4)	B26	2	4	08/16/07	13:21	X	
S-081607-ER-B26-(4-6)	B26	4	6	08/16/07	13:24	X	
Blind Dup-1-081607	B17	2	4	08/16/07	-	X	Field duplicate of sample S-081607-ER-B17-(2-4)

Notes:

-	Not available.
ft bgs	Feet Below Ground Surface.
MS	Matrix Spike.
MSD	Matrix Spike Duplicate.
PCBs	Polychlorinated Biphenyls.

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MEMORANDUM

TO:	Clare Leary [learycf@obg.com]	REF. NO.:	12650-017011
FROM:	Kathleen Willy/bjw/9	DATE:	October 23, 2008
C.C.	Maureen Markert [markerms@obg.com]		E-Mail and Hard Copy if Requested

RE: Data Quality Assessment and Validation
Wetland Sediment Sampling Additional Analyses
General Motors Syracuse Main Site
Syracuse, New York

The following details a quality assessment and validation of the analytical data resulting from additional PCB analyses of selected samples which were collected in August 2007 and requested off hold during March-May 2008 from the General Motors (GM) Syracuse Main Site in Syracuse, New York. The sample summary detailing sample identification, sample location, quality control (QC) samples, and analytical parameters is presented in Table 1. Polychlorinated biphenyl sample analysis was completed at H2M Laboratories (H2M) in Melville, New York, in accordance with the methodologies presented in Table 2. The QC criteria used to assess the data were established by the methods and following documents:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99/008, October 1999; and

ii) "Supplemental Remedial Investigation/Feasibility Study Former Inland Fisher Guide Facility and Ley Creek Deferred Media", General Motors Corporation, Syracuse, New York, October 1999.

Full Contract Laboratory Program (CLP)-equivalent raw data deliverables were provided by the laboratory. The data quality assessment and validation presented in the following subsections were performed based on the sample results and supporting quality assurance/quality control (QA/QC) provided.

Holding Time Period and Sample Analysis

All samples were properly cooled to 4°C (±2°C) after collection.

The holding time periods are presented in the analytical methods. All samples were prepared and analyzed within the method-required holding times.

Initial Calibration - Gas Chromatography (GC)

To quantify compounds of interest, calibration of the GC over a specific concentration range must be performed. Initially, calibration curves of polychlorinated biphenyls (PCBs) 1016 and 1260 are analyzed. PCBs 1016 and 1260, which include many of the peaks representative of the other five Aroclors, are

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sufficient to demonstrate linearity for all PCBs. Single points of the remaining PCBs are analyzed to aid in identification and pattern recognition.

Linearity of the calibration curves are acceptable if percent relative standard deviation (%RSD) values are less than or equal to 20 percent or if the correlation coefficient is greater than 0.995. Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses. Additionally, the PCB peak patterns are used as a secondary means of identification.

Initial calibration standards are analyzed at the required frequencies. All retention time and linearity criteria were satisfied.

Continuing Calibration - Organics, GC

To ensure that the calibration of the instrument is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the PCB calibration, percent difference (%D) values are calculated for each compound in all continuing standards and assessed against an acceptance criterion of 15 percent.

To ensure that compound retention times do not vary over the analysis period, all retention times must fall within the established retention time windows.

Continuing calibration standards for PCBs were analyzed at the required frequency and all method criteria were met for analyte linearity.

Method Blank Samples

Method blanks are prepared and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the procedures.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for the analytes of interest indicating no laboratory-attributable contamination occurred.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

In accordance with the methods employed, all samples, blanks, and standards analyzed for PCBs are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of individual sample matrices on analytical efficiency and are assessed against the laboratory developed control limits. All surrogate recoveries were within the laboratory specified control limits.

Laboratory Control Sample (LCS) Analysis

The LCS serves as a measure of overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch.

LCSs were prepared and analyzed for all parameters. The LCS recoveries were within the laboratory specified control limits for all analytes of interest demonstrating acceptable overall analytical accuracy.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD samples are prepared using a representative subset of analytes and analyzed with each sample batch for the organic parameters. MS samples are prepared and analyzed with the samples for each metal. The recoveries of spike analyses are used to assess the analytical accuracy achieved on individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

Site-specific MS/MSD analyses were not requested.

Target Compound Identification

To minimize erroneous compound identification during PCB analysis, qualitative criteria including compound retention time and peak patterns were evaluated according to identification criteria established by the methods. The samples identified in Table 1 were reviewed. The PCBs reported were those that best matched the pattern observed in the samples. Additionally, samples with high levels of PCBs present could mask the presence of low levels of the other PCBs.

Compound Quantitation

The reported quantitation results and detection limits were checked to ensure results reported were accurate. The samples identified in Table 1 were reviewed. No discrepancies were found between the raw data and the sample results reported by the laboratory.

System Performance

System performance between various QC checks was evaluated to monitor for changes that may have caused the degradation of data quality. The samples identified in Table 1 were reviewed. No technical problems or chromatographic anomalies were observed which require qualification of the data.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used as reported.

TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
SPRING 2007 FLOODPLAIN SAMPLING ADDITIONAL ANALYSES
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
AUGUST 2007

						Analysis/Parameters	
Sample ID	*Location ID*	*Start Depth (ft bgs)*	*End Depth (ft bgs)*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*PCB's*	*Comments*
S-081607-ER-B24-(2-4)	B24	2	4	08/16/07	10:52	X	taken off hold 2/28/08
S-081607-ER-B27-(2-4)	B27	2	4	08/16/07	12:41	X	taken off hold 2/28/08
S-081607-ER-B30-(4-6)	B30	4	6	08/16/07	13:05	X	taken off hold 2/28/08
S-081607-ER-B27-(0-2)	B27	0	2	08/16/07	12:40	X	taken off hold 3/28/08
S-081607-ER-B31-(4-6)	B31	4	6	08/16/07	12:54	X	taken off hold 3/28/08
S-081607-ER-B30-(0-2)	B30	0	2	08/16/07	13:00	X	taken off hold 5/8/08

Notes:
PBCs Polychlorinated Biphenyls.

TABLE 2

SUMMARY OF ANALYTICAL METHODOLOGIES
SPRING 2007 FLOODPLAIN SAMPLING ADDITIONAL ANALYSES
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
AUGUST 2007

Parameter	*Method* [1]
TCL PCBs	SW-846 8082

Notes:

[1] "Test Methods for Solid Waste Physical/Chemical Methods", SW-846, 3rd Edition, September 1986 (with subsequent revisions)

PCBs Polychlorinated Biphenyls

TCL Target Compound List

EXHIBIT B

August 19, 2008 Conestoga-Rovers & Associates Data Quality Assessment and Validation – Additional Wetland Sediment Sampling

CONESTOGA-ROVERS & ASSOCIATES

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MEMORANDUM

TO: Clare Leary [learycf@obg.com]

REF. NO.: 12650-017013

FROM: Deborah Andrasko/bjw/8

DATE: August 18, 2008
REVISED: August 19, 2008

C.C. Maureen Markert [markerms@obg.com]

E-Mail and Hard Copy if Requested

RE: Data Quality Assessment and Validation
Additional Wetland Sediment Sampling
General Motors Syracuse Main Site
Syracuse, New York
June 2008

The following details a quality assessment and validation of the analytical data resulting from the collection of sediment samples from the General Motors (GM) Syracuse Main Site in Syracuse, New York, in June 2008. The sample summary detailing sample identification, sample location, quality control (QC) samples and analytical parameters is presented in Table 1. A summary of analytical results is presented in Table 2. Polychlorinated biphenyl and metals sample analyses were completed at H2M Laboratories (H2M) in Melville, New York, and total organic carbon (TOC) analysis was completed at TestAmerica-Burlington in Colchester, Vermont (STL), in accordance with the methodologies presented in Table 3. The QC criteria used to assess the data were established by the methods and following documents:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99/008, October 1999;

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, February 1994; and

iii) "Supplemental Remedial Investigation/Feasibility Study Former Inland Fisher Guide Facility and Ley Creek Deferred Media", General Motors Corporation, Syracuse, New York, October 1999.

Full Contract Laboratory Program (CLP)-equivalent raw data deliverables were provided by the laboratory. The data quality assessment and validation presented in the following subsections were performed based on the sample results and supporting quality assurance/quality control (QA/QC) provided.

Holding Time Period and Sample Analysis

All samples were properly cooled to 4°C (±2°C) after collection.

The holding time periods are presented in the analytical methods. All samples were prepared and analyzed within the method-required holding times.

Initial Calibration – Gas Chromatography (GC)

To quantify compounds of interest, calibration of the GC over a specific concentration range must be performed. Initially, calibration curves of polychlorinated biphenyls (PCBs) 1016 and 1260 are analyzed. PCBs 1016 and 1260, which include many of the peaks representative of the other five Aroclors, are sufficient to demonstrate linearity for all PCBs. Single points of the remaining PCBs are analyzed to aid in identification and pattern recognition.

Linearity of the calibration curves are acceptable if percent relative standard deviation (%RSD) values are less than or equal to 20 percent or if the correlation coefficient is greater than 0.995. Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses. Additionally, the PCB peak patterns are used as a secondary means of identification.

Initial calibration standards were analyzed at the required frequencies and met all linearity criteria.

Initial Calibration – Metals Analyses

To calibrate the inductively coupled plasma (ICP), a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. After calibration, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves within a method-specific percent recovery of the accepted or true value.

A review of the data showed that all metals calibration curves and ICVs were analyzed at the proper frequencies and were within the acceptance criteria.

Initial Calibration – TOC Analysis

To calibrate the TOC instrument, a minimum of four standards and a blank must be analyzed to establish the analytical curve. The resulting correlation coefficient must be at least 0.990.

A review of the data showed that all calibration curves were analyzed at the proper frequencies and were within the acceptance criteria.

Continuing Calibration - Organics, GC

To ensure that the calibration of the instrument is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the PCB calibration, percent difference (%D) values are calculated for each compound in all continuing standards and assessed against an acceptance criterion of 15 percent.

To ensure that compound retention times do not vary over the analysis period, all retention times must fall within the established retention time windows.

Continuing calibration standards for PCBs were analyzed at the required frequency and all method criteria were met for analyte linearity.

Continuing Calibration – Inorganics

To ensure that the inorganic calibration is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. Metals and TOC continuing calibration standards were analyzed at the proper frequency and all recoveries were within the method acceptance criteria.

Method Blank Samples

Method blanks are prepared and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the procedures.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for the analytes of interest, with the exception of low concentrations of various metals in some of the blanks. All associated sample results were significantly greater than the blanks and were not impacted.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

In accordance with the methods employed, all samples, blanks, and standards analyzed for PCBs are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of individual sample matrices on analytical efficiency and are assessed against method control limits. The surrogate recoveries were within the laboratory specified control limits, indicating acceptable accuracy for this parameter.

Laboratory Control Sample (LCS) Analysis

The LCS serves as a measure of overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch.

LCSs were prepared and analyzed for all parameters. The LCS recoveries were within the laboratory specified control limits for all analytes of interest demonstrating acceptable overall analytical accuracy.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD samples are prepared using a representative subset of analytes and analyzed with each sample batch for the organic parameters. MS samples are prepared and analyzed with the samples for each metal. The recoveries of spike analyses are used to assess the analytical accuracy achieved on individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

MS or MS/MSD analyses were performed for all parameters. The MS or MS/MSD recoveries were within laboratory control limits with the following exceptions (see Table 4):

i) A low chromium recovery was reported for the MS of sample SE-061108-RC-015. All associated results were qualified as estimated based on the indicated low bias; and

ii) A high total organic carbon MS recovery was reported for sample SE-061108-RC-009. All associated positive results were qualified as estimated based on the implied high bias.

Duplicate Sample Analyses - Inorganics

For inorganic parameters, analytical precision is evaluated based on the analysis of duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory for the samples chosen for MS analysis.

In accordance with the "Guidelines", laboratory duplicate results should have a maximum RPD of 35 percent for soil samples. Sample results less than five times the Contract Required Detection Limit (CRDL) are evaluated based on the difference between the sample and duplicate results, which should not exceed the CRDL.

The laboratory duplicate sample results met the above criteria, indicating acceptable precision.

Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Analysis

To verify that proper inter-element and background correction factors have been established by the laboratory, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period.

ICS analysis results were evaluated for all samples. All ICS recoveries were within the established control limits of 80 to 120 percent.

Serial Dilution - Metals Analyses

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of one per 20 investigative samples is analyzed at a five-fold dilution. For samples with sufficient analyte concentrations, the serial dilution results must agree within ten percent of the original results.

All serial dilution analyses met the above criteria with the exception of chromium, lead, zinc and nickel for two samples. All associated sample results were qualified as estimated based on the indicated variability (see Table 5).

Field Duplicates

Field duplicate samples were collected and submitted "blind" to the laboratory for analysis as shown in Table 1. All results demonstrated acceptable reproducibility outside of the estimated regions of detection.

Field Quality Assurance/Quality Control (QA/QC)

The field QA/QC consisted of an equipment blank as identified in Table 1.

The equipment rinse blank was collected and submitted with the samples for PCB and metals analysis as shown in Table 1. All results were non-detect with the exception of low levels of zinc and TOC. All associated samples were significantly higher in concentration and did not require qualification.

Target Compound Identification

To minimize erroneous compound identification during PCB analysis, qualitative criteria including compound retention time and peak patterns were evaluated according to identification criteria established by the methods. The samples identified in Table 1 were reviewed. Many of the PCB samples reported by the lab exhibited weathering. Additionally, samples with high levels of PCBs present could mask the presence of low levels of the other PCBs.

Compound Quantitation

The reported quantitation results and detection limits were checked to ensure results reported were accurate. The samples identified in Table 1 were reviewed. No discrepancies were found between the raw data and the sample results reported by the laboratory.

Variability in replicate results was observed for total organic carbon analysis for some samples. Samples with variability that exceeded the method replicate precision criteria were qualified as estimated (see Table 6).

Variability in results was observed between the two columns used for PCB analysis for some samples. Samples with variability that exceeded the method RPD criteria of 25 percent were qualified as estimated (see Table 7).

Samples with percent solids less than 50 percent were qualified as estimated for all parameters as the amount of moisture present can introduce analytical variability (see Table 8).

System Performance

System performance between various QC checks was evaluated to monitor for changes that may have caused the degradation of data quality. The samples identified in Table 1 were reviewed. No technical problems or chromatographic anomalies were observed which require qualification of the data.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used as reported, with the qualifications noted.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
ADDITIONAL WETLAND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

						Parameters			
Sample I.D.	*Location I.D.*	*Start Depth (ft bgs)*	*End Depth (ft bgs)*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Metals*	*PCBs*	*TOC*	*Comments*
SE-061008-RC-001	WLSD08-1E	2.5	3.0	6/10/2008	11:15	X	X	X	
SE-061008-RC-002	WLSD08-1F	3	3.5	6/10/2008	11:15	X	X	X	
SE-061008-RC-003	WLSD08-3E	2.67	3.17	6/10/2008	15:00	X	X	X	
SE-061008-RC-004	WLSD08-3F	3.17	3.67	6/10/2008	15:00	X	X	X	
SE-061008-RC-005	WLSD08-4A	0	0.5	6/10/2008	16:00	X	X	X	
SE-061008-RC-006	WLSD08-4B	0.5	1	6/10/2008	16:00	X	X	X	MS/MSD
SE-061008-RC-007	WLSD08-4C	1	2	6/10/2008	16:00	X	X	X	
SE-061008-RC-008	WLSD08-4D	2	3	6/10/2008	16:00	X	X	X	
SE-061108-RC-009	WLSD08-6A	0	0.5	6/11/2008	10:00	X	X	X	MS/MSD for PCBs
SE-061108-RC-012	WLSD08-6B	0.5	1	6/11/2008	10:00	X	X	X	MS/MSD
SE-061108-RC-013	WLSD08-6C	1	2	6/11/2008	10:00	X	X	X	
SE-061108-RC-014	WLSD08-6D	2	3	6/11/2008	10:00	X	X	X	
SE-061108-RC-015	WLSD08-5A	0	0.54	6/11/2008	11:30	X	X	X	MS/MSD for PCBs
SE-061108-RC-018	WLSD08-5A	0	0.54	6/11/2008	11:30	X	X	X	Field duplicate of SE-061108-RC-15
SE-061108-RC-019	WLSD08-5B	0.58	1	6/11/2008	11:30	X	X	X	
SE-061108-RC-020	WLSD08-5C	1	2	6/11/2008	11:30	X	X	X	
SE-061108-RC-021	WLSD08-5D	2	2.67	6/11/2008	11:30	X	X	X	
SE-061108-RC-022	WLSD08-7A	0	0.5	6/11/2008	14:15	X	X	X	
SE-061108-RC-023	WLSD08-7B	0.5	1	6/11/2008	14:15	X	X	X	
SE-061108-RC-024	WLSD08-7C	1	2.1	6/11/2008	14:15	X	X	X	
SE-061108-RC-025	WLSD08-7D	2.1	3	6/11/2008	14:15	X	X	X	
SE-061108-RC-026	WLSD08-8A	0	0.5	6/11/2008	15:30	X	X	X	
SE-061108-RC-027	WLSD08-8B	0.5	1	6/11/2008	15:30	X	X	X	
SE-061108-RC-028	WLSD08-8C	1	2	6/11/2008	15:30	X	X	X	
SE-061108-RC-029	WLSD08-8D	2.17	3	6/11/2008	15:30	X	X	X	
SE-061208-RC-030	WLSD08-9E	2.5	3	6/12/2008	9:30	X	X	X	
SE-061208-RC-031	WLSD08-9F	3	3.5	6/12/2008	9:30	X	X	X	
SE-061108-RC-032	WLSD08-7D	2.1	3	6/11/2008	14:15	X	X	X	Field duplicate of SE-061108-RC-25
EB-061308-RC-001	-	-	-	6/13/2008	11:45	X	X		Equipment Blank

Notes:

-	Not applicable.
ft bgs	Feet Below Ground Surface.
MS	Matrix Spike.
MSD	Matrix Spike Duplicate.
PCBs	Polychlorinated Biphenyls.
TOC	Total Organic Carbon.

TABLE 2

ANALYTICAL RESULTS SUMMARY
ADDITIONAL WETLAND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Sample Location:	WLSD08-1	WLSD08-1	WLSD08-3	WLSD08-3	WLSD08-4	WLSD08-4	WLSD08-4	WLSD08-4
Sample ID:	SE-061008-RC-001	SE-061008-RC-002	SE-061008-RC-003	SE-061008-RC-004	SE-061008-RC-005	SE-061008-RC-006	SE-061008-RC-007	SE-061008-RC-008
Sample Date:	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008
Sample Depth:	(2.5-3) ft BGS	(3-3.5) ft BGS	(2.67-3.17) ft BGS	(3.17-3.67) ft BGS	(0-0.5) ft BGS	(0.5-1) ft BGS	(1-2) ft BGS	(2-3) ft BGS
Parameters	*Units*							
PCBs								
Aroclor-1016 (PCB-1016)	µg/kg	63 U	52 U	79 UJ	52 U	44 U	55 U	40 U	41 U
Aroclor-1221 (PCB-1221)	µg/kg	130 U	110 U	160 UJ	110 U	89 U	110 U	81 U	83 U
Aroclor-1232 (PCB-1232)	µg/kg	63 U	52 U	79 UJ	52 U	44 U	55 U	40 U	41 U
Aroclor-1242 (PCB-1242)	µg/kg	150000	19000	8600 J	4400	44 U	55 U	40 U	41 U
Aroclor-1248 (PCB-1248)	µg/kg	63 U	52 U	79 UJ	52 U	67 J	270 J	40 U	41 U
Aroclor-1254 (PCB-1254)	µg/kg	63 U	52 U	79 UJ	52 U	44 U	55 U	40 U	41 U
Aroclor-1260 (PCB-1260)	µg/kg	63 U	52 U	79 UJ	52 U	44 U	55 U	40 U	41 U
Metals								
Arsenic	µg/kg	7500	4300	6900 J	4300	2700	2900	1800	3200
Chromium Total	µg/kg	1440000	509000	1050000 J	1560000	18100	34000	9400	10800
Copper	µg/kg	1660000	601000	707000 J	1240000	22300	33500	5900	12900
Lead	µg/kg	57000	24100	28600 J	18500	9800	24600	4300	4400
Nickel	µg/kg	1370000	525000	311000 J	291000	20400	31100	9100	13200
Zinc	µg/kg	1030000 J	419000 J	187000 J	165000 J	51600 J	104000 J	21600 J	24700 J
General Chemistry								
Percent Moisture	%	47.7	36.5	58.3	37.0	25.1	40.1	17.3	19.1
Total Organic Carbon (TOC)	µg/kg	41600000 J	10200000 J	46700000 J	22200000 J	8870000 J	58500000 J	3500000 J	612000 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
ADDITIONAL WETLAND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Sample Location:	*WLSD08-5*	*WLSD08-5*	*WLSD08-5*	*WLSD08-5*	*WLSD08-5*	*WLSD08-6*	*WLSD08-6*	*WLSD08-6*
Sample ID:	*SE-061108-RC-015*	*SE-061108-RC-018*	*SE-061108-RC-019*	*SE-061108-RC-020*	*SE-061108-RC-021*	*SE-061108-RC-009*	*SE-061108-RC-012*	*SE-061108-RC-013*
Sample Date:	*6/11/2008*	*6/11/2008*	*6/11/2008*	*6/11/2008*	*6/11/2008*	*6/11/2008*	*6/11/2008*	*6/11/2008*
Sample Depth:	*(0-0.54) ft BGS*	*(0-0.54) ft BGS (Duplicate)*	*(0.58-1) ft BGS*	*(1-2) ft BGS*	*(2-2.67) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(1-2) ft BGS*
Parameters	***Units***							
PCBs								
Aroclor-1016 (PCB-1016)	µg/kg	70 UJ	71 UJ	57 U	39 U	39 U	62 U	55 U	40 U
Aroclor-1221 (PCB-1221)	µg/kg	140 UJ	150 UJ	120 U	79 U	78 U	130 U	110 U	82 U
Aroclor-1232 (PCB-1232)	µg/kg	70 UJ	71 UJ	57 U	39 U	39 U	62 U	55 U	40 U
Aroclor-1242 (PCB-1242)	µg/kg	70 UJ	71 UJ	57 U	110	39 U	62 U	55 U	40 U
Aroclor-1248 (PCB-1248)	µg/kg	320 J	310 J	170 J	39 U	39 U	62 U	55 U	40 U
Aroclor-1254 (PCB-1254)	µg/kg	70 UJ	71 UJ	57 U	39 U	39 U	62 U	55 U	40 U
Aroclor-1260 (PCB-1260)	µg/kg	70 UJ	71 UJ	57 U	39 U	39 U	62 U	55 U	40 U
Metals								
Arsenic	µg/kg	3500 J	2700 J	730	1200	2000	8100	6100	1200
Chromium Total	µg/kg	76000 J	68300 J	35800 J	7900 J	8700 J	18200	16400	10100
Copper	µg/kg	64700 J	57700 J	31100	4900	10100	45900	30400	5800
Lead	µg/kg	50700 J	45100 J	24100 J	4000 J	3500 J	38700	19600	4900
Nickel	µg/kg	60400 J	52700 J	27800 J	6800 J	9100 J	16700	15100	8400
Zinc	µg/kg	105000 J	98500 J	60200 J	16600 J	18700 J	101000 J	77200 J	32100 J
General Chemistry								
Percent Moisture	%	53.1	53.8	42.5	15.7	14.4	47.1	40.2	18.1
Total Organic Carbon (TOC)	µg/kg	94800000 J	99700000 J	63900000	4460000	583000 U	92100000 J	56800000 J	12200000 J

TABLE 2

ANALYTICAL RESULTS SUMMARY
ADDITIONAL WETLAND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Sample Location:	WLSD08-6	WLSD08-7	WLSD08-7	WLSD08-7	WLSD08-7	WLSD08-7	WLSD08-8	WLSD08-8
Sample ID:	SE-061108-RC-014	SE-061108-RC-022	SE-061108-RC-023	SE-061108-RC-024	SE-061108-RC-025	SE-061108-RC-032	SE-061108-RC-026	SE-061108-RC-027
Sample Date:	6/11/2008	6/11/2008	6/11/2008	6/11/2008	6/11/2008	6/11/2008	6/11/2008	6/11/2008
Sample Depth:	(2-3) ft BGS	(0-0.5) ft BGS	(0.5-1) ft BGS	(1-2.1) ft BGS	(2.1-3) ft BGS	(2.1-3) ft BGS (Duplicate)	(0-0.5) ft BGS	(0.5-1) ft BGS
Parameters	*Units*							
PCBs								
Aroclor-1016 (PCB-1016)	µg/kg	39 U	51 U	47 U	44 U	40 U	40 U	64 U	45 U
Aroclor-1221 (PCB-1221)	µg/kg	79 U	100 U	95 U	89 U	81 U	80 U	130 U	91 U
Aroclor-1232 (PCB-1232)	µg/kg	39 U	51 U	47 U	44 U	40 U	40 U	64 U	45 U
Aroclor-1242 (PCB-1242)	µg/kg	39 U	51 U	47 U	44 U	40 U	40 U	64 U	45 U
Aroclor-1248 (PCB-1248)	µg/kg	39 U	51 U	47 U	44 U	40 U	40 U	64 U	45 U
Aroclor-1254 (PCB-1254)	µg/kg	39 U	51 U	47 U	44 U	40 U	40 U	64 U	45 U
Aroclor-1260 (PCB-1260)	µg/kg	39 U	51 U	47 U	44 U	40 U	40 U	64 U	45 U
Metals								
Arsenic	µg/kg	1300	4100	3500	2400	2200	2100	3800	1500
Chromium Total	µg/kg	7700	14200 J	13700 J	14300 J	14000 J	13500 J	21600 J	12700 J
Copper	µg/kg	6200	21600	17700	14900	11400	11100	23700	8300
Lead	µg/kg	3500	28100 J	14700 J	6700 J	7100 J	7000 J	38800 J	13300 J
Nickel	µg/kg	7500	12900 J	12500 J	12900 J	13500 J	13300 J	17500 J	10100 J
Zinc	µg/kg	20700 J	67000 J	55500 J	46900 J	48700 J	46800 J	92600 J	44000 J
General Chemistry								
Percent Moisture	%	15.4	35.3	29.3	24.6	17.5	16.5	48.6	26.5
Total Organic Carbon (TOC)	µg/kg	1480000 J	58900000	44100000	14400000	8870000	6170000	90400000	25500000

TABLE 2

ANALYTICAL RESULTS SUMMARY
ADDITIONAL WETLAND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Sample Location:		*WLSD08-8*	*WLSD08-8*	*WLSD08-9*	*WLSD08-9*
Sample ID:		*SE-061108-RC-028*	*SE-061108-RC-029*	*SE-061208-RC-030*	*SE-061208-RC-031*
Sample Date:		*6/11/2008*	*6/11/2008*	*6/12/2008*	*6/12/2008*
Sample Depth:		*(1-2) ft BGS*	*(2.17-3) ft BGS*	*(2.5-3) ft BGS*	*(3-3.5) ft BGS*
Parameters	***Units***				
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	39 U	40 U	56 U	54 U
Aroclor-1221 (PCB-1221)	µg/kg	79 U	82 U	110 U	110 U
Aroclor-1232 (PCB-1232)	µg/kg	39 U	40 U	56 U	54 U
Aroclor-1242 (PCB-1242)	µg/kg	39 U	40 U	56 U	54 U
Aroclor-1248 (PCB-1248)	µg/kg	39 U	40 U	56 U	54 U
Aroclor-1254 (PCB-1254)	µg/kg	39 U	40 U	56 U	54 U
Aroclor-1260 (PCB-1260)	µg/kg	39 U	40 U	56 U	54 U
Metals					
Arsenic	µg/kg	870	960	2200	1500
Chromium Total	µg/kg	10200 J	7100 J	18000 J	16200 J
Copper	µg/kg	9200	11700	48500	16900
Lead	µg/kg	4900 J	3600 J	7900 J	7000 J
Nickel	µg/kg	11700 J	8600 J	86700 J	16600 J
Zinc	µg/kg	25400 J	19300 J	70400 J	56000 J
General Chemistry					
Percent Moisture	%	15.3	17.8	40.6	38.6
Total Organic Carbon (TOC)	µg/kg	1390000	4900000 J	67000000	44200000

Notes:

J	Estimated.
PCBs	Polychlorinated Biphenyls.
U	Not detected.

TABLE 3

SUMMARY OF ANALYTICAL METHODOLOGIES
ADDITIONAL WETLAND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Method* [1]
PCBs	SW-846 8082 [1]
Site Metals	SW-846 6010B [1]
Total Organic Carbon (TOC)	Lloyd Kahn [2]

Notes:

[1] "Test Methods for Solid Waste Physical/Chemical Methods", SW-846, 3rd Edition, September 1986 (with subsequent revisions).

[2] "Determination of Total Organic Carbon in Sediment (Lloyd Kahn Method)", USEPA Region II, July 27, 1988.

PCBs Polychlorinated biphenyls.

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE RECOVERIES
ADDITIONAL WETLAND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Associated Sample ID*	*Analyte*	*MS Recovery (percent)*	*Control Limits Recovery (percent)*	*Qualified Sample Result*	*Units*
Metals	SE-061108-RC-015	Chromium Total	72.2	75-125	76.0 J	mg/kg
	SE-061108-RC-019				35.8 J	mg/kg
	SE-061108-RC-020				7.9 J	mg/kg
	SE-061108-RC-021				8.7 J	mg/kg
	SE-061108-RC-022				14.2 J	mg/kg
	SE-061108-RC-023				13.7 J	mg/kg
	SE-061108-RC-024				14.3 J	mg/kg
	SE-061108-RC-025				14.0 J	mg/kg
	SE-061108-RC-026				21.6 J	mg/kg
	SE-061108-RC-027				12.7 J	mg/kg
	SE-061108-RC-028				10.2 J	mg/kg
	SE-061108-RC-029				7.1 J	mg/kg
	SE-061108-RC-032				13.5 J	mg/kg
	SE-061208-RC-030				18.0 J	mg/kg
	SE-061208-RC-031				16.2 J	mg/kg
General Chemistry	SE-061008-RC-001	Total Organic Carbon (TOC)	140	75-125	41600 J	mg/kg
	SE-061008-RC-002				10200 J	mg/kg
	SE-061008-RC-003				46700 J	mg/kg
	SE-061008-RC-004				22200 J	mg/kg
	SE-061008-RC-005				8870 J	mg/kg
	SE-061008-RC-006				58500 J	mg/kg
	SE-061008-RC-007				3500 J	mg/kg
	SE-061108-RC-009				92100 J	mg/kg
	SE-061108-RC-012				56800 J	mg/kg
	SE-061108-RC-013				12200 J	mg/kg
	SE-061108-RC-014				1480 J	mg/kg
	SE-061108-RC-018				99700 J	mg/kg

Notes:
J Estimated.
MS Matrix Spike.

TABLE 5

QUALIFIED SAMPLES RESULTS DUE TO OUTLYING SERIAL DILUTIONS
ADDITIONAL WETLAND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Sample ID	*Analyte*	*%D*	*Control Limits*	*Associated Samples*	*Qualified Sample Results*	*Units*
SE-061108-RC-015	Chromium Total	15.2	0 - 10%	SE-061108-RC-023	13.7 J	mg/kg
				SE-061108-RC-025	14.0 J	mg/kg
				SE-061108-RC-027	12.7 J	mg/kg
				SE-061108-RC-019	35.8 J	mg/kg
				SE-061108-RC-015	76.0 J	mg/kg
				SE-061108-RC-020	7.9 J	mg/kg
				SE-061108-RC-021	8.7 J	mg/kg
				SE-061108-RC-024	14.3 J	mg/kg
				SE-061108-RC-028	10.2 J	mg/kg
				SE-061108-RC-029	7.1 J	mg/kg
				SE-061108-RC-032	13.5 J	mg/kg
				SE-061208-RC-031	16.2 J	mg/kg
				SE-061208-RC-030	18.0 J	mg/kg
				SE-061108-RC-026	21.6 J	mg/kg
				SE-061108-RC-022	14.2 J	mg/kg
SE-061108-RC-015	Lead	11.5	0 - 10%	SE-061108-RC-023	14.7 J	mg/kg
				SE-061108-RC-025	7.1 J	mg/kg
				SE-061108-RC-027	13.3 J	mg/kg
				SE-061108-RC-019	24.1 J	mg/kg
				SE-061108-RC-015	50.7 J	mg/kg
				SE-061108-RC-020	4.0 J	mg/kg
				SE-061108-RC-021	3.5 J	mg/kg
				SE-061108-RC-024	6.7 J	mg/kg
				SE-061108-RC-028	4.9 J	mg/kg
				SE-061108-RC-029	3.6 J	mg/kg
				SE-061108-RC-032	7.0 J	mg/kg
				SE-061208-RC-031	7.0 J	mg/kg
				SE-061208-RC-030	7.9 J	mg/kg
				SE-061108-RC-026	38.8 J	mg/kg
				SE-061108-RC-022	28.1 J	mg/kg
SE-061108-RC-015	Nickel	15.3	0 - 10%	SE-061108-RC-023	12.5 J	mg/kg
				SE-061108-RC-025	13.5 J	mg/kg
				SE-061108-RC-027	10.1 J	mg/kg
				SE-061108-RC-019	27.8 J	mg/kg
				SE-061108-RC-015	60.4 J	mg/kg
				SE-061108-RC-020	6.8 J	mg/kg
				SE-061108-RC-021	9.1 J	mg/kg
				SE-061108-RC-024	12.9 J	mg/kg
				SE-061108-RC-028	11.7 J	mg/kg
				SE-061108-RC-029	8.6 J	mg/kg

TABLE 5

QUALIFIED SAMPLES RESULTS DUE TO OUTLYING SERIAL DILUTIONS
ADDITIONAL WETLAND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Sample ID	*Analyte*	*%D*	*Control Limits*	*Associated Samples*	*Qualified Sample Results*	*Units*
SE-061108-RC-015	Nickel	15.3	0 - 10%	SE-061108-RC-032	13.3 J	mg/kg
				SE-061208-RC-031	16.6 J	mg/kg
				SE-061208-RC-030	86.7 J	mg/kg
				SE-061108-RC-026	17.5 J	mg/kg
				SE-061108-RC-022	12.9 J	mg/kg
SE-061108-RC-009	Zinc	14.2	0 - 10%	SE-061108-RC-009	101 J	mg/kg
				SE-061108-RC-018	98.5 J	mg/kg
				SE-061008-RC-005	51.6 J	mg/kg
				SE-061008-RC-006	104 J	mg/kg
				SE-061008-RC-007	21.6 J	mg/kg
				SE-061008-RC-008	24.7 J	mg/kg
				SE-061008-RC-001	1030 J	mg/kg
				SE-061008-RC-002	419 J	mg/kg
				SE-061008-RC-003	187 J	mg/kg
				SE-061108-RC-012	77.2 J	mg/kg
				SE-061108-RC-013	32.1 J	mg/kg
				SE-061108-RC-014	20.7 J	mg/kg
				SE-061008-RC-004	165 J	mg/kg
SE-061108-RC-015	Zinc	17.6	0 - 10%	SE-061108-RC-023	55.5 J	mg/kg
				SE-061108-RC-025	48.7 J	mg/kg
				SE-061108-RC-027	44.0 J	mg/kg
				SE-061108-RC-019	60.2 J	mg/kg
				SE-061108-RC-015	105 J	mg/kg
				SE-061108-RC-020	16.6 J	mg/kg
				SE-061108-RC-021	18.7 J	mg/kg
				SE-061108-RC-024	46.9 J	mg/kg
				SE-061108-RC-028	25.4 J	mg/kg
				SE-061108-RC-029	19.3 J	mg/kg
				SE-061108-RC-032	46.8 J	mg/kg
				SE-061208-RC-031	56.0 J	mg/kg
				SE-061208-RC-030	70.4 J	mg/kg
				SE-061108-RC-026	92.6 J	mg/kg
				SE-061108-RC-022	67.0 J	mg/kg

Notes:
J Estimated.
%D Percent Difference.

TABLE 6

QUALIFIED SAMPLE DATA DUE TO POOR LABORATORY REPLICATE PRECISION*
ADDITIONAL WETLAND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Analyte*	*Sample ID*	*Qualified Sample Results*	*Units*
General Chemistry	Total Organic Carbon (TOC)	SE-061108-RC-014	1480 J	mg/kg
General Chemistry	Total Organic Carbon (TOC)	SE-061108-RC-029	4900 J	mg/kg

Notes:
J Estimated.
* These analyses were qualified due to sample replicate precision being outside of acceptable laboratory defined parameters.

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO DIFFERENCES IN DUAL COLUMN RESULTS
ADDITIONAL WETLAND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Compound*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
PCBs	Aroclor-1248 (PCB-1248)	SE-061108-RC-018	310 J	µg/Kg
	Aroclor-1248 (PCB-1248)	SE-061008-RC-005	67 J	µg/Kg
	Aroclor-1248 (PCB-1248)	SE-061008-RC-006	270 J	µg/Kg
	Aroclor-1248 (PCB-1248)	SE-061108-RC-019	170 J	µg/Kg
	Aroclor-1248 (PCB-1248)	SE-061108-RC-015	320 J	µg/Kg

Notes:
J Estimated.

TABLE 8
QUALIFIED SAMPLE RESULTS DUE TO PERCENT SOLIDS < 50 %
ADDITIONAL WETLAND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Sample ID*	*Sample Results*	*Qualifier*
All parameters	SE-061008-RC-003	All	J
	SE-061108-RC-015	All	J
	SE-061108-RC-018	All	J

Notes:
J Estimated.

EXHIBIT C

February 5, 2009 Conestoga-Rovers & Associates Data Quality Assessment and Validation – SRI Ley Creek Biota and Sediment Sampling

CONESTOGA-ROVERS & ASSOCIATES

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MEMORANDUM

TO:	Clare Leary [learycf@obg.com]	REF. NO.:	012650-017015
FROM:	Deborah Andrasko/bjw/10	DATE:	February 5, 2009
C.C.	Maureen Markert [markerms@obg.com]		**E-Mail and Hard Copy if Requested**
RE:	**Data Quality Assessment and Validation SRI/Ley Creek Biota and Sediment Sampling Syracuse, New York June 2008**		

The following details a quality assessment and validation of the analytical data resulting from the collection of fish and sediment samples from the General Motors (GM) Syracuse Main Site in Syracuse, New York, in June 2008. The sample summary detailing sample identification, sample location, quality control (QC) samples, and analytical parameters is presented in Table 1. An analytical results summary is presented in Tables 2A and 2B. Sample analysis was completed at Accutest Laboratories in Dayton, New Jersey and Houston, Texas with methyl mercury analyses performed by Battelle Marine Sciences Laboratory in Sequim, Washington. Sample analyses were done in accordance with the methodologies presented in Table 3. The QC criteria used to assess the data were established by the methods, United States Environmental Protection Agency (USEPA) Region II guidance documents and the following:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", USEPA 540/R-99/008, October 1999;

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, February 1994.

iii) "Supplemental Remedial Investigation/Feasibility Study Former IFG Ley Creek Deferred Media Quality Assurance Project Plan", General Motors Corporation, Syracuse, New York, February 1992.

Full Contract Laboratory Program (CLP)-equivalent raw data deliverables were provided by the laboratories. The data quality assessment and validation presented in the following subsections were performed based on the sample results and supporting quality assurance/quality control (QA/QC) provided.

Holding Time Period and Sample Analysis

The holding time periods are presented in the analytical methods. All samples were prepared and analyzed within the method-required holding times or verified time of sample receipt (VTSR) with the exception of some samples for polychlorinated biphenyls, semi-volatiles and acid volatile sulfide. All associated sample results were qualified as estimated based on the potential low bias (see Table 4).

The samples were properly temperature preserved after collection and during storage.

Gas Chromatography/Mass Spectrometer (GC/MS) Mass Calibration

Prior to analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the semi-volatile organic compound (SVOC) method requires the analysis of the specific tuning compound decafluorotriphenylphosphine (DFTPP). The resulting spectra must meet the criteria cited in the method before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Instrument tuning data were reviewed. Tuning compounds were analyzed at the required frequency throughout the SVOC analysis periods. All tuning criteria were met for the analyses, indicating proper optimization of the instrumentation.

Initial Calibration - Semi-volatiles, GC/MS

To quantify compounds of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a minimum of a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range.

Calibration data were reviewed for all samples. Linearity of the calibration curve and instrument sensitivity were evaluated against the following criteria:

i) all relative response factors (RRFs) must be greater than or equal to 0.05; and

ii) percent relative standard deviation (%RSD) values must not exceed 30 percent or if linear regression is used, the correlation coefficient (R^2) value must be at least 0.990.

Initial calibration standards were analyzed as required and the data showed acceptable sensitivity and linearity.

Initial Calibration - Polychlorinated Biphenyls (PCBs), GC

To quantify compounds of interest, calibration of the GC over a specific concentration range must be performed. Initially, five-point calibration curves are analyzed for all the compounds of interest.

Linearity of the calibration curves are acceptable if %RSD values are less than or equal to 20 percent or if the correlation coefficient is greater than 0.995. Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

Initial calibration standards for polychlorinated biphenyls were analyzed at the required frequencies. All retention time and linearity criteria were satisfied.

Initial Calibration - Inorganics

To calibrate the inductively coupled plasma (ICP), a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For cyanide, total organic carbon (TOC), mercury and methyl mercury analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve. Resulting correlation coefficients for the curves must be at least 0.995.

After calibration, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves within a method-specific percent recovery of the accepted or true value.

A review of the data showed that all calibration curves and ICVs were analyzed at the proper frequencies and were within the acceptance criteria.

Continuing Calibration - Semi-volatiles, GC/MS

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) all RRF values must be greater than or equal to 0.05; and

ii) percent difference (%D) values must not exceed 25 percent.

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and linearity of response.

Continuing Calibration - PCBs, GC

To ensure that the calibration of the instrument is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound in all continuing standards and assessed against an acceptance criterion of 15 percent.

To ensure that compound retention times do not vary over the analysis period, all retention times must fall within the established retention time windows.

Continuing calibration standards for PCBs were analyzed at the required frequency and all method criteria were met for analyte linearity.

Continuing Calibration - Inorganics

Continuing calibration criteria for inorganic analyses were the same criteria as used for assessing the initial calibration data. The continuing calibration verification data were within the acceptance criteria.

Method Blank Samples

Method blanks are prepared and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the procedures.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for the analytes of interest with the exception of low concentrations of various semi-volatiles and metals in some of the blanks. All associated results with similar concentrations were qualified as non-detect (see Table 5).

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

In accordance with the methods employed, all samples, blanks, and standards analyzed for SVOCs, and PCBs are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of individual sample matrices on analytical efficiency and are assessed against method control limits. For the SVOC method, it is acceptable for one surrogate recovery per fraction (base neutral or acid phenolic) to fall outside of these limits, provided it is greater than 10 percent.

All surrogate recoveries were within the laboratory specified control limits demonstrating acceptable analytical accuracy with the following exceptions:

i) some semi-volatile samples had one outlying base neutral or acid phenol surrogate recovery and, per the method, did not require qualification;

ii) some semi-volatile base neutral surrogates had low recoveries and all associated results were qualified as estimated based on the low bias (see Table 6);

iii) some PCB surrogates were reported with high recoveries. All associated positive results were qualified as estimated (see Table 6); non-detects would not be impacted by the implied high bias.

Laboratory Control Sample (LCS) Analysis

The LCS serves as a measure of overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch. Some LCSs are prepared and analyzed in duplicate.

LCSs were prepared and analyzed for all parameters. All LCS recoveries were within the laboratory specified control limits for all analytes of interest, with the following exceptions (see Table 7):

i) low recoveries were reported for some semi-volatile compounds. Associated results were qualified as estimated based on the implied low bias; and

ii) high recoveries were reported for some semi-volatile compounds. Associated positive results were qualified as estimated based on the indicated high bias; non-detect results would not be impacted.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD samples are prepared using a representative subset of analytes and analyzed with each sample batch for the organic parameters. MS samples are prepared and analyzed with the samples for each

inorganic parameter. The recoveries of spike analyses are used to assess the analytical accuracy achieved on individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

MS or MS/MSD analyses were performed for all parameters. The MS or MS/MSD recoveries were within laboratory control limits with the following exceptions:

i) low recoveries were reported for various metals , cyanide, TOC and SVOC matrix spike samples. All associated results were qualified as estimated based on the indicated low bias (see Table 8);

ii) significantly low recoveries were reported for some cyanide MS and semi-volatile MS/MSD. All associated positive results were qualified as estimated (see Table 8) and all associated non-detect results were rejected due to the implied severe low bias;

iii) the recoveries for some semi-volatiles and PCBs could not be assessed due to significantly high sample concentration;

iv) high RPD were reported for some semi-volatile compounds and metal MS/MSD. All associated results were qualified as estimated based on the indicated variability; and

v) zero percent recoveries were reported for the SEM mercury and one SEM copper MS/MSD (see Table 8). Associated positive results were qualified as estimated due to the severe low bias; all associated non-detect results were qualified as rejected.

Duplicate Sample Analyses - Inorganics

For inorganic parameters, analytical precision is evaluated based on the analysis of duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory for many of the samples chosen for MS analysis.

In accordance with the "Guidelines", laboratory duplicate results should have a maximum RPD of 35 percent for soil samples. Sample results less than five times the Contract Required Detection Limit (CRDL) are evaluated based on the difference between the sample and duplicate results, which should not exceed the CRDL.

Most laboratory duplicate sample results met the above criteria, indicating good analytical precision. Duplicate inorganic results which did not meet criteria were qualified as estimated based on the implied variability (see Table 9).

Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Analysis

To verify that proper inter-element and background correction factors have been established by the laboratory, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period.

ICS analysis results were evaluated for all samples. All ICS recoveries were within the established control limits of 80 to 120 percent.

Serial Dilution - Metals Analyses

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of one per 20 investigative samples is analyzed at a five-fold dilution. For samples with sufficient analyte concentrations, the serial dilution results must agree within 10 percent of the original results.

All serial dilution analyses met the above criteria with the exception of various total and simultaneously extracted metals (SEM). All associated results were qualified as estimated (see Table 10).

Internal Standard (IS) Summaries

To correct for changes in GC/MS response and sensitivity, IS compounds are added to investigative samples and QC samples prior to SVOC analyses. All results are calculated as a ratio of the IS response. The criteria by which the IS results are assessed are as follows:

i) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard; and

ii) the retention time of the IS must not vary more than ±30 seconds from the associated calibration standard.

All sample IS results met the above criteria and all were correctly used to calculate sample results with the exception of low IS recoveries reported for some semi-volatile samples. All associated results were qualified as estimated (see Table 11).

Field Duplicates

Field duplicate samples were collected and submitted "blind" to the laboratory for analysis as shown in Table 1. All results demonstrated acceptable reproducibility outside of the estimated regions of detection with the exception of some metals, PCBs, methyl mercury and an SVOC compound. The associated results were qualified as estimated due to the indicated variability (see Table 12).

Field Quality Assurance/Quality Control (QA/QC)

The field QA/QC consisted of an equipment blank as identified in Table 1.

Equipment blanks are collected in the field and analyzed with the investigative samples to identify potential cross-contamination during the sampling and analysis procedures. The equipment blank results were non-detect for the analytes of interest with the exception of a low concentration of TOC. All associated TOC results were significantly higher in concentration and would not be impacted.

Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organics reported adhered to the specified identification criteria.

Analyte Quantitation

The reported quantitation results and detection limits were checked to ensure results reported were accurate. The samples identified in Table 1 were reviewed. No discrepancies were found between the raw data and the sample results reported by the laboratory.

Variability in results was observed between the two columns used for PCB analysis for one sample. A compound with variability that exceeded the method RPD criteria of 25 percent was qualified as estimated (see Table 13).

All tissue results were reported on a wet weight basis and all sediment results were reported on a dry weight basis by the laboratories. All sediment samples were reported with percent solids greater than 50 percent.

System Performance

System performance between various QC checks was evaluated to monitor for changes that may have caused the degradation of data quality. The samples identified in Table 1 were reviewed. No technical problems or chromatographic anomalies were observed which require qualification of the data.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used as reported with the qualifications noted above.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

					Analysis/Parameters										
Sample I.D.	*Location I.D.*	*Matrix*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Whole body homogenization*	*Semi-volatiles*	*Metals*	*Cyanide*	*Polychlorinated Biphenyls (PCBs)*	*Methyl Mercury*	*Percent Lipids*	*Percent Moisture*	*AVS/SEM*	*Total Organic Carbon*	*Comments*
TA-060908-SM-001	SR-CFSH-1	Fish tissue	06/09/08	13:00	X	X	X	X	X	X	X	X			
TA-060908-SM-002	SR-CFSH-2	Fish tissue	06/09/08	13:00	X	X	X	X	X	X	X	X			
TA-060908-SM-003	SR-CFSH-2	Fish tissue	06/09/08	13:00	X	X	X	X	X	X	X	X			Field duplicate of TA-060908-SM-002
TA-061008-SM-004	DSR-CFSH-3	Fish tissue	06/10/08	13:00	X	X	X	X	X	X	X	X			
TA-061008-SM-005	DSR-CFSH-4	Fish tissue	06/10/08	13:00	X	X	X	X	X	X	X	X			
TA-061108-SM-006	SAN-CFSH-5	Fish tissue	06/11/08	13:00	X	X	X	X	X	X	X	X			MS/MSD
TA-061108-SM-007	NBR-CFSH-6	Fish tissue	06/11/08	13:00	X	X	X	X	X	X	X	X			
TA-061108-SM-008	SBR-CFSH-7	Fish tissue	06/11/08	13:00	X	X	X	X	X	X	X	X			
TA-061308-SM-009	SR-CC-1	Fish tissue	06/13/08	13:00	X	X	X	X	X	X	X	X			
TA-061308-SM-010	SR-CC-2	Fish tissue	06/13/08	13:00	X	X	X	X	X	X	X	X			
TA-061308-SM-011	SR-CC-3	Fish tissue	06/13/08	13:00	X	X	X	X	X	X	X	X			
TA-061008-SM-012	DSR-CC-4A	Fish tissue	06/10/08	13:00	X	X	X	X	X	X	X	X			
TA-061008-SM-013	DSR-CC-4B	Fish tissue	06/10/08	13:00	X			X	X		X				PCB's and % lipids only due to sample size
TA-061108-SM-014	NBR-CC-5	Fish tissue	06/11/08	13:00	X	X	X	X	X	X	X	X			
TA-061108-SM-015	NBR-CC-6	Fish tissue	06/11/08	13:00	X	X	X	X	X	X	X	X			
TA-061108-SM-016	SBR-CC-7	Fish tissue	06/11/08	13:00	X	X	X	X	X	X	X	X			
TA-061108-SM-017	SBR-CC-8	Fish tissue	06/11/08	13:00	X	X	X	X	X	X	X	X			
TA-061108-SM-018	SAN-CC-9	Fish tissue	06/11/08	13:00	X	X	X	X	X	X	X	X			
TA-061108-SM-019	SAN-CC-10	Fish tissue	06/11/08	13:00	X	X	X	X	X	X	X	X			
TA-060908-SM-020	SR-WS-1	Fish tissue	06/09/08	13:00	X	X	X	X	X	X	X	X			
TA-060908-SM-021	SR-WS-2	Fish tissue	06/09/08	13:00	X	X	X	X	X	X	X	X			
TA-061308-SM-022	SR-WS-3	Fish tissue	06/13/08	13:00	X	X	X	X	X	X	X	X			
TA-061308-SM-023	SR-WS-4	Fish tissue	06/13/08	13:00	X	X	X	X	X	X	X	X			
TA-061308-SM-024	SR-WS-5	Fish tissue	06/13/08	13:00	X	X	X	X	X	X	X	X			
TA-061008-SM-025	DSR-WS-6	Fish tissue	06/10/08	13:00	X	X	X	X	X	X	X	X			
TA-061208-SM-026	DSR-WS-7	Fish tissue	06/12/08	13:00	X	X	X	X	X	X	X	X			
TA-061208-SM-027	DSR-WS-7	Fish tissue	06/12/08	NA	X	X	X	X	X	X	X	X			Field duplicate of TA-060908-SM-026

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

					Analysis/Parameters										
Sample I.D.	*Location I.D.*	*Matrix*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Whole body homogenization*	*Semi-volatiles*	*Metals*	*Cyanide*	*Polychlorinated Biphenyls (PCBs)*	*Methyl Mercury*	*Percent Lipids*	*Percent Moisture*	*AVS/SEM*	*Total Organic Carbon*	*Comments*
TA-061208-SM-028	DSR-WS-8	Fish tissue	06/12/08	13:00	X	X	X	X	X	X	X	X			
TA-061208-SM-029	DSR-WS-9	Fish tissue	06/12/08	13:00	X	X	X	X	X	X	X	X			
TA-061208-SM-030	DSR-WS-10	Fish tissue	06/12/08	13:00	X	X	X	X	X	X	X	X			
TA-061108-SM-031	NBR-WS-11	Fish tissue	06/11/08	13:00	X	X	X	X	X	X	X	X			
TA-061108-SM-032	NBR-WS-12	Fish tissue	06/11/08	13:00	X	X	X	X	X	X	X	X			
TA-061108-SM-033	NBR-WS-15	Fish tissue	06/11/08	13:00	X	X	X	X	X	X	X	X			
TA-061108-SM-034	SAN-WS-13	Fish tissue	06/11/08	13:00	X	X	X	X	X	X	X	X			
TA-061108-SM-035	SAN-WS-14	Fish tissue	06/11/08	13:00	X	X	X	X	X	X	X	X			
TA-061108-SM-036	SAN-WS-16	Fish tissue	06/11/08	13:00	X	X	X	X	X	X	X	X			MS/MSD
TA-060908-SM-037	SR-BB-1	Fish tissue	06/09/08	13:00		X	X	X	X	X	X	X			
TA-060908-SM-038	SR-BB-2	Fish tissue	06/09/08	13:00		X	X	X	X	X	X	X			
TA-060908-SM-039	SR-BB-3	Fish tissue	06/09/08	13:00		X	X	X	X	X	X	X			
TA-060908-SM-040	SR-BB-4	Fish tissue	06/09/08	13:00		X	X	X	X	X	X	X			
TA-061308-SM-041	SR-BB-5	Fish tissue	06/13/08	13:00		X	X	X	X	X	X	X			MS/MSD
TA-061308-SM-042	SR-BB-6	Fish tissue	06/13/08	13:00		X	X	X	X	X	X	X			
TA-061308-SM-043	SR-BB-6	Fish tissue	06/13/08	13:00		X	X	X	X	X	X	X			Field duplicate of TA-061308-SM-042
TA-061008-SM-044	DSR-BB-7	Fish tissue	06/10/08	13:00		X	X	X	X	X	X	X			
TA-061008-SM-045	DSR-BB-8	Fish tissue	06/10/08	13:00		X	X	X	X	X	X	X			
TA-062408-SM-046	NY-REF-1	Fish tissue	06/24/08	10:30					X						NYSDEC Reference sample for PCB's
SE-061808-RC-001	DSR S1A	Sediment	06/18/08	13:30		X	X	X	X	X		X	X	X	
SE-061808-RC-002	DSR S1B	Sediment	06/18/08	13:30		X	X	X	X	X		X	X	X	
SE-061808-RC-003	DSR S2A	Sediment	06/18/08	14:30		X	X	X	X	X		X	X	X	
SE-061808-RC-004	DSR S2B	Sediment	06/18/08	14:30		X	X	X	X	X		X	X	X	
SE-061808-RC-005	DSR S3A	Sediment	06/18/08	16:00		X	X	X	X	X		X	X	X	
SE-061808-RC-006	DSR S3B	Sediment	06/18/08	16:00		X	X	X	X	X		X	X	X	
SE-061908-RC-007	DSR S4A	Sediment	06/19/08	10:30		X	X	X	X	X		X	X	X	

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

					Analysis/Parameters										
Sample I.D.	*Location I.D.*	*Matrix*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Whole body homogenization*	*Semi-volatiles*	*Metals*	*Cyanide*	*Polychlorinated Biphenyls (PCBs)*	*Methyl Mercury*	*Percent Lipids*	*Percent Moisture*	*AVS/SEM*	*Total Organic Carbon*	*Comments*
SE-061908-RC-008	DSR S4B	Sediment	06/19/08	10:30		X	X	X	X	X		X	X	X	
SE-061908-RC-009	DSR S5A	Sediment	06/19/08	13:30		X	X	X	X	X		X	X	X	
SE-061908-RC-010	DSR S5B	Sediment	06/19/08	13:30		X	X	X	X	X		X	X	X	
SE-061908-RC-011	DSR S6A	Sediment	06/19/08	15:00		X	X	X	X	X		X	X	X	
SE-061908-RC-012	DSR S6B	Sediment	06/19/08	15:00		X	X	X	X	X		X	X	X	
SE-061908-RC-013	SRS 1A	Sediment	06/19/08	16:30		X	X	X	X	X		X	X	X	
SE-061908-RC-014	SRS 1B	Sediment	06/19/08	16:30		X	X	X	X	X		X	X	X	
SE-062308-RC-015	SRS 2A	Sediment	06/23/08	10:30		X	X	X	X	X		X	X	X	
SE-062308-RC-016	SRS 2A	Sediment	06/23/08			X	X	X	X	X		X	X	X	Field duplicate of SE-062308-RC-015
SE-062308-RC-017	SRS 3A	Sediment	06/23/08	11:45		X	X	X	X	X		X	X	X	MS/MSD
SE-062308-RC-018	SRS 3B	Sediment	06/23/08	11:45		X	X	X	X	X		X	X	X	
SE-062308-RC-019	SRS 4A	Sediment	06/23/08	14:30		X	X	X	X	X		X	X	X	
SE-062308-RC-020	SRS 4B	Sediment	06/23/08	14:30		X	X	X	X	X		X	X	X	
SE-062308-RC-021	SRS 5A	Sediment	06/23/08	15:45		X	X	X	X	X		X	X	X	
SE-062308-RC-022	SRS 5A	Sediment	06/23/08			X	X	X	X	X		X	X	X	Field duplicate of SE-062308-RC-021
SE-062308-RC-023	SRS 5B	Sediment	06/23/08	15:45		X	X	X	X	X		X	X	X	
SE-062408-RC-024	SRS 6A	Sediment	06/24/08	11:30		X	X	X	X	X		X	X	X	MS/MSD
SE-062408-RC-025	SRS 6A	Sediment	06/24/08			X	X	X	X	X		X	X	X	Field duplicate of SE-062408-RC-024
SE-062408-RC-026	SBR S1A	Sediment	06/24/08	14:00		X	X	X	X	X		X	X	X	
SE-062408-RC-027	SBR S2A	Sediment	06/24/08	14:40		X	X	X	X	X		X	X	X	
SE-062408-RC-028	SBR S3A	Sediment	06/24/08	15:30		X	X	X	X	X		X	X	X	MS/MSD
SE-062408-RC-029	SCR S1A	Sediment	06/24/08	16:00		X	X	X	X	X		X	X	X	
SE-062408-RC-030	SCR S1B	Sediment	06/24/08	16:00		X	X	X	X	X		X	X	X	
SE-062508-RC-031	SCR S2A	Sediment	06/25/08	9:30		X	X	X	X	X		X	X	X	
SE-062508-RC-032	SCR S2B	Sediment	06/25/08	9:30		X	X	X	X	X		X	X	X	
SE-062508-RC-033	SCR S3A	Sediment	06/25/08	10:00		X	X	X	X	X		X	X	X	
SE-062508-RC-034	NBR S1A	Sediment	06/25/08	10:50		X	X	X	X	X		X	X	X	

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

					Analysis/Parameters										
Sample I.D.	*Location I.D.*	*Matrix*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Whole body homogenization*	*Semi-volatiles*	*Metals*	*Cyanide*	*Polychlorinated Biphenyls (PCBs)*	*Methyl Mercury*	*Percent Lipids*	*Percent Moisture*	*AVS/SEM*	*Total Organic Carbon*	*Comments*
SE-062508-RC-035	NBR S1B	Sediment	06/25/08	10:50		X	X	X	X	X		X	X	X	
SE-062508-RC-036	NBR S2A	Sediment	06/25/08	11:40		X	X	X	X	X		X	X	X	
SE-062508-RC-037	NBR S2B	Sediment	06/25/08	11:40		X	X	X	X	X		X	X	X	
SE-062508-RC-038	NBR S3A	Sediment	06/25/08	12:30		X	X	X	X	X		X	X	X	
SE-062508-RC-039	NBR S3B	Sediment	06/25/08	12:30		X	X	X	X	X		X	X	X	
SE-062608-RC-040	SRS 2B	Sediment	06/26/08	9:00		X	X	X	X	X		X	X	X	
SE-062608-RC-041	SRS 6B	Sediment	06/26/08	9:30		X	X	X	X	X		X	X	X	
SE-062608-RC-042	SBR S1B	Sediment	06/26/08	11:30		X	X	X	X	X		X	X	X	
SE-062608-RC-043	SBR S2B	Sediment	06/26/08	12:00		X	X	X	X	X		X	X	X	
SE-062608-RC-044	SBRS3B	Sediment	06/26/08	12:30		X	X	X	X	X		X	X	X	
SE-062608-RC-045	SCR S3B	Sediment	06/26/08	10:15		X	X	X	X	X		X	X	X	
EB-062508-RC-001	-	Water	06/25/08	15:45		X	X	X	X	X				X	Equipment blank

Notes:

-	Not applicable.
AVS/SEM	Acid volatile sulfide/simultaneously extracted metals - cadmium, copper, lead, mercury, nickel and zinc.
MS	Matrix spike.
MSD	Matrix spike duplicate.
TAL	Target analyte list.

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SEDIMENTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	*DSR S1A*	*DSR S1B*	*DSR S2A*	*DSR S2B*	*DSR S3A*	*DSR S3B*	*DSR S4A*
	Sample Name:	*SE-061808-RC-001*	*SE-061808-RC-002*	*SE-061808-RC-003*	*SE-061808-RC-004*	*SE-061808-RC-005*	*SE-061808-RC-006*	*SE-061908-RC-007*
	Sample Date:	*6/18/2008*	*6/18/2008*	*6/18/2008*	*6/18/2008*	*6/18/2008*	*6/18/2008*	*6/19/2008*
	Depth:	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*
	Sample Type:	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*
Parameters	***Units***							
Semi-Volatile Organic Compounds								
2,4-Dimethylphenol	µg/kg	440 U	530 U	430 U	560 U	520 U	440 U	550 U
2-Methylnaphthalene	µg/kg	170 U	214	194	485	210 U	180 U	192 J
2-Methylphenol	µg/kg	170 U	210 U	170 U	230 U	210 U	180 U	220 U
3&4-Methylphenol	µg/kg	170 U	210 U	198	463	210 U	180 U	220 U
Acenaphthene	µg/kg	212	449	307	288	112 J	35.9 J	507
Acenaphthylene	µg/kg	196	428	488	1040	340	114 J	194 J
Anthracene	µg/kg	605	1020	839	1520	599	173 J	1210
Benzo(a)anthracene	µg/kg	1870	2640	2440	3280	1520	427	3120
Benzo(a)pyrene	µg/kg	2050	2670	2500	3420	1640	484	3070
Benzo(b)fluoranthene	µg/kg	2180	2520	2430	3550	1690	507	3270
Benzo(g,h,i)perylene	µg/kg	1390	1650	1490	2140	1130	353	1840
Benzo(k)fluoranthene	µg/kg	1660	2200	2040	2920	1230	371	2640
bis(2-Ethylhexyl)phthalate	µg/kg	738 U	1750 U	494 U	422 U	730 U	1050 U	1690 U
Butyl benzylphthalate	µg/kg	170 U	210 U	170 U	230 U	210 U	180 U	220 U
Carbazole	µg/kg	338 J	410 J	410 J	297 J	204 J	62.5 J	766 J
Chrysene	µg/kg	2280	3090	2890	4390	1720	471	3530
Dibenz(a,h)anthracene	µg/kg	490	567	537	750	391	123 J	612
Dibenzofuran	µg/kg	170 U	326	221	302	68.1 J	30.6 J	418
Di-n-octyl phthalate	µg/kg	170 U	210 U	170 U	230 U	210 U	180 U	220 U
Fluoranthene	µg/kg	4280	5330	5600	7250	3020	724	6750
Fluorene	µg/kg	243	448	380	764	125 J	41.2 J	544
Indeno(1,2,3-cd)pyrene	µg/kg	1340	1530	1440	2080	1030	324	1830
Naphthalene	µg/kg	84.7 J	283	254	420	72.2 J	42.7 J	368
Phenanthrene	µg/kg	2630	2970	3230	3430	1520	444	5050
Phenol	µg/kg	170 U	210 U	170 U	230 U	210 U	180 U	220 U
Pyrene	µg/kg	4330 J	6540 J	5740 J	8480 J	3330 J	978 J	6800 J
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	µg/kg	44 U	53 U	43 U	56 U	52 U	44 U	56 UJ
Aroclor-1221 (PCB-1221)	µg/kg	44 U	53 U	43 U	56 U	52 U	44 U	56 UJ
Aroclor-1232 (PCB-1232)	µg/kg	44 U	53 U	43 U	56 U	52 U	44 U	56 UJ
Aroclor-1242 (PCB-1242)	µg/kg	1910	204000	43 U	56 U	52 U	44 U	56 UJ
Aroclor-1248 (PCB-1248)	µg/kg	44 U	53 U	377 J	185	1870	7130	2710 J
Aroclor-1254 (PCB-1254)	µg/kg	44 U	53 U	281 J	156	588	44 U	806 J
Aroclor-1260 (PCB-1260)	µg/kg	174	3220	311 J	212	186	310	312 J

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SEDIMENTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	*DSR S1A*	*DSR S1B*	*DSR S2A*	*DSR S2B*	*DSR S3A*	*DSR S3B*	*DSR S4A*
	Sample Name:	*SE-061808-RC-001*	*SE-061808-RC-002*	*SE-061808-RC-003*	*SE-061808-RC-004*	*SE-061808-RC-005*	*SE-061808-RC-006*	*SE-061908-RC-007*
	Sample Date:	*6/18/2008*	*6/18/2008*	*6/18/2008*	*6/18/2008*	*6/18/2008*	*6/18/2008*	*6/19/2008*
	Depth:	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*
	Sample Type:	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*
Parameters	***Units***							
Metals								
Antimony	mg/kg	2.6 UJ	3.1 UJ	2.6 UJ	3.3 UJ	3.1 UJ	2.6 UJ	3.4 UJ
Arsenic	mg/kg	3.4	7.0	5.9	7.8	7.4	7.0	6.6
Barium	mg/kg	27.4	88.9	59.1	93.9	42.4	26 U	54.2
Beryllium	mg/kg	0.64 U	0.79 U	0.65 U	0.82 U	0.78 U	0.65 U	0.84 U
Cadmium	mg/kg	0.64 U	5.7	1.0	1.9	0.97	0.65 U	1.2
Chromium Total	mg/kg	23.2	429	27.8	47.5	35.6	33.2	29.4
Cobalt	mg/kg	6.4 U	7.9 U	6.5 U	10.5	7.8 U	6.5 U	8.4 U
Copper	mg/kg	31.9	183	40.6	58.6	44.5	26.3	48.6
Lead	mg/kg	37.1	150	48.1	74.2	52.0	32.9	61.2
Manganese	mg/kg	161	276	227	564	277	183	260
Mercury	mg/kg	0.061	0.18	0.089	0.26	1.7	0.085	0.098
Methyl mercury	ng/g	0.334	0.215	0.397	0.438	0.461	0.173	0.261
Nickel	mg/kg	12.3	121	15.1	30.0	23.2	23.3	18.6
Selenium	mg/kg	2.6 U	3.1 U	2.6 U	3.3 U	3.1 U	2.6 U	3.4 U
Silver	mg/kg	1.3 U	1.9	1.5	2.1	1.6 U	1.3 U	1.7 U
Thallium	mg/kg	1.3 U	1.6 U	1.3 U	1.6 U	1.6 U	1.3 U	1.7 U
Vanadium	mg/kg	8.8	18.7	11.0	25.4	17.1	12.1	14.3
Zinc	mg/kg	97.9	273	101	114	158	83.2	179
AVS/SEM								
Acid Volatile Sulfide	µmol/g	0.97	2.7	1.1	1.3	2.3	0.87	1.9
Cadmium	µmol/g	0.0039	0.042	0.0052	0.012	0.0053	0.0028	0.0085
Copper	µmol/g	0.30 J	0.40 J	0.20 J	0.20 J	0.063 J	0.75 J	0.27 J
Lead	µmol/g	0.13	0.47	0.14	0.20	0.16	0.096	0.23
Mercury	µmol/g	R	R	R	R	R	R	R
Nickel	µmol/g	0.10	1.1	0.085	0.13	0.11	0.099	0.14
Zinc	µmol/g	1.3	3.8	1.0	0.94	1.9	0.84	2.3
Simultaneously Extracted Metals/ Acid-Volatile Sulfide Ratio	mole ratio	1.89	2.17	1.33	1.18	0.953	2.05	1.55
General Chemistry								
Cyanide (total)	mg/kg	0.28 UJ	0.38 UJ	0.28 UJ	0.34 UJ	0.32 UJ	0.32 UJ	0.40 UJ
Percent Moisture	%	23.5	37.6	23.7	40.9	37.3	25.5	40.6
Total Organic Carbon (TOC)	mg/kg	10800	49700	19100	19700	24300	11000	28300

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SEDIMENTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	*DSR S4B*	*DSR S5A*	*DSR S5B*	*DSR S6A*	*DSR S6B*	*NBR S1A*	*NBR S1B*
	Sample Name:	*SE-061908-RC-008*	*SE-061908-RC-009*	*SE-061908-RC-010*	*SE-061908-RC-011*	*SE-061908-RC-012*	*SE-062508-RC-034*	*SE-062508-RC-035*
	Sample Date:	*6/19/2008*	*6/19/2008*	*6/19/2008*	*6/19/2008*	*6/19/2008*	*6/25/2008*	*6/25/2008*
	Depth:	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*
	Sample Type:	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*
Parameters	***Units***							
Semi-Volatile Organic Compounds								
2,4-Dimethylphenol	µg/kg	520 U	480 U	430 UJ	520 U	460 U	380 UJ	420 UJ
2-Methylnaphthalene	µg/kg	623	190 U	170 UJ	114 J	180 U	150 U	170 U
2-Methylphenol	µg/kg	210 U	190 U	170 UJ	210 U	180 U	150 U	170 U
3&4-Methylphenol	µg/kg	210 U	190 U	170 UJ	210 U	180 U	150 U	170 U
Acenaphthene	µg/kg	2170	267	46.3 J	257	71.0 J	150 U	170 U
Acenaphthylene	µg/kg	647	371	95.6 J	660	237	150 U	170 U
Anthracene	µg/kg	5870	971	290 J	1100	319	150 U	170 U
Benzo(a)anthracene	µg/kg	19200	2670	931 J	2170	503	29.1 J	170 U
Benzo(a)pyrene	µg/kg	16000	2640	1040 J	2250	486	38.9 J	170 U
Benzo(b)fluoranthene	µg/kg	15300	3370	1080 J	2530	531	34.8 J	170 U
Benzo(g,h,i)perylene	µg/kg	8050	1980	731 J	1590	388	31.0 J	170 U
Benzo(k)fluoranthene	µg/kg	14700	2000	802 J	1900	232	44.6 J	170 U
bis(2-Ethylhexyl)phthalate	µg/kg	693 U	788 U	476 J	1400	574 U	150 U	170 U
Butyl benzylphthalate	µg/kg	210 U	190 U	170 UJ	210 U	180 U	150 U	170 U
Carbazole	µg/kg	4630	566	124 J	336	88.3 J	150 U	170 U
Chrysene	µg/kg	20100	3320	1140 J	2850	678	44.9 J	170 U
Dibenz(a,h)anthracene	µg/kg	850	709	205 J	538	138 J	150 U	170 U
Dibenzofuran	µg/kg	1870	193	33.0 J	138 J	32.1 J	150 U	170 U
Di-n-octyl phthalate	µg/kg	210 U	190 U	170 UJ	210 U	180 U	150 U	170 U
Fluoranthene	µg/kg	41200	6320	2250 J	5570	1340	70.5 J	170 U
Fluorene	µg/kg	2690	355	68.5 J	268	72.6 J	150 U	170 U
Indeno(1,2,3-cd)pyrene	µg/kg	7760	1850	643 J	1460	337	150 U	170 U
Naphthalene	µg/kg	1100 J	130 J	170 UJ	128 J	39.7 J	150 U	71.1 J
Phenanthrene	µg/kg	39600	3930	917 J	2330	517	39.5 J	170 U
Phenol	µg/kg	210 U	190 U	4830 J	210 U	180 U	150 U	170 U
Pyrene	µg/kg	36000	4950	1930 J	4380	1230	56.6 J	170 U
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	µg/kg	52 U	48 U	45 UJ	52 U	46 U	43 U	46 U
Aroclor-1221 (PCB-1221)	µg/kg	52 U	48 U	45 UJ	52 U	46 U	43 U	46 U
Aroclor-1232 (PCB-1232)	µg/kg	52 U	48 U	45 UJ	52 U	46 U	43 U	46 U
Aroclor-1242 (PCB-1242)	µg/kg	9190 J	48 U	45 UJ	52 U	46 U	43 U	46 U
Aroclor-1248 (PCB-1248)	µg/kg	52 U	671 J	152 J	22500 J	7140	43 U	46 U
Aroclor-1254 (PCB-1254)	µg/kg	1670 J	335 J	85.9 J	6620 J	2130	43 U	46 U
Aroclor-1260 (PCB-1260)	µg/kg	548 J	1540 J	56.8 J	1470 J	430	43 U	46 U

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SEDIMENTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	*DSR S4B*	*DSR S5A*	*DSR S5B*	*DSR S6A*	*DSR S6B*	*NBR S1A*	*NBR S1B*
	Sample Name:	*SE-061908-RC-008*	*SE-061908-RC-009*	*SE-061908-RC-010*	*SE-061908-RC-011*	*SE-061908-RC-012*	*SE-062508-RC-034*	*SE-062508-RC-035*
	Sample Date:	*6/19/2008*	*6/19/2008*	*6/19/2008*	*6/19/2008*	*6/19/2008*	*6/25/2008*	*6/25/2008*
	Depth:	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*
	Sample Type:	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*
Parameters	***Units***							
Metals								
Antimony	mg/kg	3.2 UJ	2.8 UJ	2.7 UJ	3.0 UJ	2.7 UJ	2.7 UJ	2.7 UJ
Arsenic	mg/kg	6.2	4.1	4.0	7.8	6.9	8.2	8.8
Barium	mg/kg	46.9	40.2	49.6	92.1	62.6	125	124
Beryllium	mg/kg	0.81 U	0.71 U	0.68 U	0.76 U	0.67 U	0.66 U	1.1
Cadmium	mg/kg	1.2	0.71 U	0.68 U	2.0	0.88	0.66 U	1.1
Chromium Total	mg/kg	32.5	19.0	15.3	64.0	31.3	21.9	27.5
Cobalt	mg/kg	8.1 U	7.1 U	6.8 U	7.6 U	6.7	9.3	14.9
Copper	mg/kg	44.9	37.8	21.0	83.3	40.0	20.3	23.3
Lead	mg/kg	52.6	37.5	25.3	122	49.0	10.0	9.2
Manganese	mg/kg	279	184	358	266	347	462	508
Mercury	mg/kg	0.061	0.073	0.040 U	0.16	0.081	0.041 U	0.044 U
Methyl mercury	ng/g	0.116	0.925	0.107	0.374	0.197	0.0626	0.0294
Nickel	mg/kg	17.5	13.6	13.8	34.6	23.0	23.1	24.9
Selenium	mg/kg	3.2 U	2.8 U	2.7 U	3.0 U	2.7 U	2.7 U	2.7 U
Silver	mg/kg	1.6 U	1.4 U	1.4 U	1.8	1.3 U	1.3 U	1.4 U
Thallium	mg/kg	1.6 U	1.4 U	1.4 U	1.5 U	1.3 U	1.3 U	1.4 U
Vanadium	mg/kg	13.9	11.1	16.4	20.5	18.8	25.2	36.3
Zinc	mg/kg	135	139	61.8	177	70.3	47.5	53.7
AVS/SEM								
Acid Volatile Sulfide	µmol/g	2.7	1.4	1.5	2.4	1.5	0.066 UJ	0.068 UJ
Cadmium	µmol/g	0.0086	0.0042	0.0017	0.012	0.0043	0.0016	0.0019
Copper	µmol/g	0.20 J	0.21 J	0.12 J	0.72 J	0.37 J	0.18 J	0.18 J
Lead	µmol/g	0.17	0.13	0.053	0.40	0.15	0.022	0.018
Mercury	µmol/g	R	R	R	R	0.000060 J	R	R
Nickel	µmol/g	0.12	0.095	0.053	0.27	0.17	0.12	0.14
Zinc	µmol/g	1.8	1.5	0.54	2.0	0.66	0.36 J	0.36 J
Simultaneously Extracted Metals/Acid-Volatile Sulfide Ratio	mole ratio	0.864	1.39	0.524	1.41	0.914	10.9	25.0
General Chemistry								
Cyanide (total)	mg/kg	0.35 UJ	0.33 UJ	0.27 UJ	0.33 UJ	0.30 UJ	0.31 UJ	0.28 UJ
Percent Moisture	%	36.0	30.5	25.4	35.9	28.9	23.9	26.8
Total Organic Carbon (TOC)	mg/kg	22400	22600	5710	24200	10100	11400	4810

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SEDIMENTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	*NBR S2A*	*NBR S2B*	*NBR S3A*	*NBR S3B*	*SBR S1A*	*SBR S1B*	*SBR S2A*
	Sample Name:	*SE-062508-RC-036*	*SE-062508-RC-037*	*SE-062508-RC-038*	*SE-062508-RC-039*	*SE-062408-RC-026*	*SE-062608-RC-042*	*SE-062408-RC-027*
	Sample Date:	*6/25/2008*	*6/25/2008*	*6/25/2008*	*6/25/2008*	*6/24/2008*	*6/26/2008*	*6/24/2008*
	Depth:	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*
	Sample Type:	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*
Parameters	***Units***							
Semi-Volatile Organic Compounds								
2,4-Dimethylphenol	µg/kg	380 UJ	380 U	440 U	500 U	480 UJ	450 U	380 UJ
2-Methylnaphthalene	µg/kg	150 UJ	150 U	170 U	200 U	1340	180 U	869
2-Methylphenol	µg/kg	150 U	150 U	170 U	200 U	190 U	180 U	150 U
3&4-Methylphenol	µg/kg	150 U	150 U	170 U	200 U	190 U	180 U	239
Acenaphthene	µg/kg	150 UJ	150 U	170 U	200 U	2260	180 U	2750
Acenaphthylene	µg/kg	150 UJ	150 U	170 U	200 U	733	180 U	563
Anthracene	µg/kg	150 UJ	150 U	170 U	128 J	4470	180 U	5780
Benzo(a)anthracene	µg/kg	124 J	40.7 J	66.9 J	362	8280	131 J	14700
Benzo(a)pyrene	µg/kg	109 J	38.1 J	90.4 J	371	7830	115 J	12100
Benzo(b)fluoranthene	µg/kg	117 J	58.7 J	108 J	396	8520	164 J	11600
Benzo(g,h,i)perylene	µg/kg	84.1 J	44.2 J	105 J	262	4710	99.0 J	5890
Benzo(k)fluoranthene	µg/kg	112 J	36.4 J	77.3 J	249	4400	81.8 J	3690
bis(2-Ethylhexyl)phthalate	µg/kg	97.4 J	1710	170 U	200 U	3960	180 U	355
Butyl benzylphthalate	µg/kg	150 UJ	150 U	170 U	200 U	190 U	180 U	150 U
Carbazole	µg/kg	150 UJ	150 U	170 U	200 U	3060	180 U	4100
Chrysene	µg/kg	160 J	47.7 J	94.5 J	397	8780	154 J	14900
Dibenz(a,h)anthracene	µg/kg	22.9 J	150 U	170 U	185 J	1860	180 U	2470
Dibenzofuran	µg/kg	150 UJ	150 U	170 U	200 U	2400	180 U	2120
Di-n-octyl phthalate	µg/kg	150 UJ	150 U	170 U	200 U	190 U	180 U	150 U
Fluoranthene	µg/kg	323 J	89.6 J	164 J	771	24300	307	31300
Fluorene	µg/kg	150 UJ	150 U	170 U	200 U	2880	180 U	3020
Indeno(1,2,3-cd)pyrene	µg/kg	73.9 J	150 U	113 J	325	4710	115 J	5890
Naphthalene	µg/kg	150 UJ	150 U	170 U	200 U	2200	180 U	1440
Phenanthrene	µg/kg	150 J	36.6 J	72.2 J	288	24300	151 J	29400
Phenol	µg/kg	150 U	150 U	170 U	200 U	190 U	180 U	150 U
Pyrene	µg/kg	268 J	77.1 J	137 J	641	21700	259	28400
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	µg/kg	42 U	38 UJ	43 U	50 U	45 UJ	44 U	44 U
Aroclor-1221 (PCB-1221)	µg/kg	42 U	38 UJ	43 U	50 U	45 UJ	44 U	44 U
Aroclor-1232 (PCB-1232)	µg/kg	42 U	38 UJ	43 U	50 U	45 UJ	44 U	44 U
Aroclor-1242 (PCB-1242)	µg/kg	42 U	38 UJ	43 U	50 U	45 UJ	44 U	44 U
Aroclor-1248 (PCB-1248)	µg/kg	42 U	38 UJ	43 U	50 U	45 UJ	44 U	103
Aroclor-1254 (PCB-1254)	µg/kg	42 U	38 UJ	43 U	50 U	66.5 J	44 U	71.0
Aroclor-1260 (PCB-1260)	µg/kg	42 U	38 UJ	43 U	50 U	45 UJ	44 U	44 U

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SEDIMENTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	*NBR S2A*	*NBR S2B*	*NBR S3A*	*NBR S3B*	*SBR S1A*	*SBR S1B*	*SBR S2A*
	Sample Name:	*SE-062508-RC-036*	*SE-062508-RC-037*	*SE-062508-RC-038*	*SE-062508-RC-039*	*SE-062408-RC-026*	*SE-062608-RC-042*	*SE-062408-RC-027*
	Sample Date:	*6/25/2008*	*6/25/2008*	*6/25/2008*	*6/25/2008*	*6/24/2008*	*6/26/2008*	*6/24/2008*
	Depth:	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*
	Sample Type:	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*
Parameters	***Units***							
Metals								
Antimony	mg/kg	2.5 UJ	2.4 UJ	2.8 UJ	3.1 UJ	2.7 UJ	2.8 UJ	2.6 UJ
Arsenic	mg/kg	3.9	4.0	4.8	5.1	4.8	11.0	18.3
Barium	mg/kg	25 U	24 U	28 U	31 U	79.0	113	41.1
Beryllium	mg/kg	0.63 U	0.60 U	0.70 U	0.77 U	0.67 U	0.70	0.64 U
Cadmium	mg/kg	0.63 U	0.60 U	0.70 U	0.77 U	0.67 U	1.1	0.64 U
Chromium Total	mg/kg	4.3	4.3	6.1	6.4	16.5	20.9	18.6
Cobalt	mg/kg	6.3 U	6.0 U	7.9	7.7 U	6.7 U	15.6	6.4 U
Copper	mg/kg	7.9	7.5	28.1	14.9	69.2	27.2	54.3
Lead	mg/kg	3.7	3.4	21.8	5.5	49.2	10.8	41.6
Manganese	mg/kg	139	138	179	139	266	494	284
Mercury	mg/kg	0.038 U	0.033 U	0.042 U	0.050 U	0.15	0.044 U	0.15
Methyl mercury	ng/g	0.160	0.0542	0.358	0.0740	1.35	0.0760	0.773
Nickel	mg/kg	5.0 U	5.6	6.3	7.1	16.7	27.1	17.5
Selenium	mg/kg	2.5 U	2.4 U	2.8 U	3.1 U	2.7 U	2.8 U	2.6 U
Silver	mg/kg	1.3 U	1.2 U	1.4 U	1.5 U	1.3 U	1.4 U	1.3 U
Thallium	mg/kg	1.3 U	1.2 U	1.4 U	1.5 U	1.3 U	1.4 U	1.3 U
Vanadium	mg/kg	6.3 U	6.4	8.3	8.1	12.5	26.5	15.3
Zinc	mg/kg	24.0	22.7	36.6	39.9	161	56.8	179
AVS/SEM								
Acid Volatile Sulfide	µmol/g	1.7 J	1.3 J	1.8 J	2.1 J	0.87 J	0.67 UJ	1.0 J
Cadmium	µmol/g	0.0014 U	0.0012	0.0015 U	0.0017	0.0052	0.0022	0.0061
Copper	µmol/g	0.054 J	0.083 J	0.077 J	0.088 J	0.45 J	0.24 J	0.56 J
Lead	µmol/g	0.013	0.020	0.015	0.020	0.38	0.031	0.17
Mercury	µmol/g	R	R	R	R	R	R	R
Nickel	µmol/g	0.029	0.031	0.036	0.037	0.13	0.13	0.14
Zinc	µmol/g	0.27 J	0.22 J	0.31 J	0.49 J	1.5 J	0.38 J	1.8 J
Simultaneously Extracted Metals/Acid-Volatile Sulfide Ratio	mole ratio	0.187	0.273	0.243	0.303	2.83	3.75	2.68
General Chemistry								
Cyanide (total)	mg/kg	0.26 UJ	0.24 UJ	0.30 UJ	0.31 UJ	0.30 UJ	0.27 UJ	0.31 UJ
Percent Moisture	%	21.1	14.4	24.6	33.2	26.3	25.7	25.1
Total Organic Carbon (TOC)	mg/kg	3080	1870	5250	6250	27700	4260	108000

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SEDIMENTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	*SBR S2B*	*SBR S3A*	*SBR S3B*	*SCR S1A*	*SCR S1B*	*SCR S2A*	*SCR S2B*
	Sample Name:	*SE-062608-RC-043*	*SE-062408-RC-028*	*SE-062608-RC-044*	*SE-062408-RC-029*	*SE-062408-RC-030*	*SE-062508-RC-031*	*SE-062508-RC-032*
	Sample Date:	*6/26/2008*	*6/24/2008*	*6/26/2008*	*6/24/2008*	*6/24/2008*	*6/25/2008*	*6/25/2008*
	Depth:	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*
	Sample Type:	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*
Parameters	***Units***							
Semi-Volatile Organic Compounds								
2,4-Dimethylphenol	µg/kg	171 J	560 U	460 U	480 UJ	460 UJ	520 UJ	460 UJ
2-Methylnaphthalene	µg/kg	2130	407	145 J	190 U	180 U	210 U	180 U
2-Methylphenol	µg/kg	102 J	220 U	180 U	190 U	180 U	210 U	180 U
3&4-Methylphenol	µg/kg	454	12700	25100	190 U	180 U	210 U	180 U
Acenaphthene	µg/kg	4640	1750	332	66.0 J	180 U	234	180 U
Acenaphthylene	µg/kg	344	597	350	190 U	180 U	81.9 J	180 U
Anthracene	µg/kg	7990	3310	1060	157 J	180 U	803	180 U
Benzo(a)anthracene	µg/kg	16000	8670	3340	499	180 U	2340	69.5 J
Benzo(a)pyrene	µg/kg	13700	9510	3730	509	180 U	2380	77.3 J
Benzo(b)fluoranthene	µg/kg	13400	9570	4120	409	180 U	2100	80.8 J
Benzo(g,h,i)perylene	µg/kg	6650	5130	2560	318	180 U	1590	51.6 J
Benzo(k)fluoranthene	µg/kg	7550	6700	2290	501	180 U	2050	72.2 J
bis(2-Ethylhexyl)phthalate	µg/kg	373	1400	1020	190 U	180 U	1990	180 U
Butyl benzylphthalate	µg/kg	170 U	220 U	180 U	190 U	180 U	210 U	180 U
Carbazole	µg/kg	7890	2640	602	118 J	180 U	500	180 U
Chrysene	µg/kg	17100	10400	3990	603	180 U	2650	84.4 J
Dibenz(a,h)anthracene	µg/kg	2570	2010	922	90.8 J	180 U	486	180 U
Dibenzofuran	µg/kg	5600 J	1190	225 J	190 U	180 U	125 J	180 U
Di-n-octyl phthalate	µg/kg	170 U	220 U	180 U	190 U	180 U	210 U	180 U
Fluoranthene	µg/kg	50000	22500	8850	1210	180 U	5290	113 J
Fluorene	µg/kg	5570	1500	475	57.0 J	180 U	234	180 U
Indeno(1,2,3-cd)pyrene	µg/kg	8630	5220	3120	292	180 U	1500	180 U
Naphthalene	µg/kg	3820	591	208	113 J	180 U	131 J	180 U
Phenanthrene	µg/kg	58700	19400	4930	769	28.5 J	3120	56.4 J
Phenol	µg/kg	204	620	180 U	190 U	180 U	210 U	180 U
Pyrene	µg/kg	36900	20300	7010	1030	180 U	4530	96.5 J
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	µg/kg	45 U	56 UJ	53 U	48 U	44 UJ	51 U	43 U
Aroclor-1221 (PCB-1221)	µg/kg	45 U	56 UJ	53 U	48 U	44 UJ	51 U	43 U
Aroclor-1232 (PCB-1232)	µg/kg	45 U	56 UJ	53 U	48 U	44 UJ	51 U	43 U
Aroclor-1242 (PCB-1242)	µg/kg	45 U	56 UJ	53 U	48 U	44 UJ	51 U	43 U
Aroclor-1248 (PCB-1248)	µg/kg	74.4	96.8 J	109	48 U	44 UJ	51 U	43 U
Aroclor-1254 (PCB-1254)	µg/kg	45 U	56 UJ	53 U	48 U	44 UJ	51 U	43 U
Aroclor-1260 (PCB-1260)	µg/kg	45 U	56 UJ	53 U	178	44 UJ	860	43 U

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SEDIMENTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	*SBR S2B*	*SBR S3A*	*SBR S3B*	*SCR S1A*	*SCR S1B*	*SCR S2A*	*SCR S2B*
	Sample Name:	*SE-062608-RC-043*	*SE-062408-RC-028*	*SE-062608-RC-044*	*SE-062408-RC-029*	*SE-062408-RC-030*	*SE-062508-RC-031*	*SE-062508-RC-032*
	Sample Date:	*6/26/2008*	*6/24/2008*	*6/26/2008*	*6/24/2008*	*6/24/2008*	*6/25/2008*	*6/25/2008*
	Depth:	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*
	Sample Type:	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*
Parameters	***Units***							
Metals								
Antimony	mg/kg	2.7 UJ	3.5 UJ	3.2 UJ	2.8 UJ	2.8 UJ	3.0 UJ	2.7 UJ
Arsenic	mg/kg	11.5	6.4	6.9	18.8	9.2	6.2	7.9
Barium	mg/kg	73.4	66.4	83.8	138	134	65.7	119
Beryllium	mg/kg	0.67 U	0.88 U	0.81 U	0.70 U	0.71 U	0.76 U	0.66 U
Cadmium	mg/kg	2.0	1.4 J	1.6	0.70 U	0.71 U	0.76 U	0.66 U
Chromium Total	mg/kg	29.2	24.2	24.6	22.6	22.3	26.7	22.1
Cobalt	mg/kg	10.0	9.2	10.4	9.0	10.9	8.1	11.0
Copper	mg/kg	72.9	58.8 J	64.2	28.7	25.9	31.7	24.6
Lead	mg/kg	78.2	56.1	63.2	15.6	12.5	28.7	12.0
Manganese	mg/kg	258	365	368	368	421	392	616
Mercury	mg/kg	0.042 U	0.14	0.092	0.046 U	0.044 U	0.098	0.040 U
Methyl mercury	ng/g	0.662	2.95	2.02	0.584	0.0275 U	1.68	0.0910
Nickel	mg/kg	17.4	19.0	21.3	26.7	29.4	19.7	30.1
Selenium	mg/kg	2.7 U	3.5 U	3.2 U	2.8 U	2.8 U	3.0 U	2.7 U
Silver	mg/kg	1.3 U	1.8 U	1.6 U	1.4 U	1.4 U	1.5 U	1.3 U
Thallium	mg/kg	1.3 U	1.8 U	1.6 U	1.4 U	1.4 U	1.5 U	1.3 U
Vanadium	mg/kg	19.2	22.1	21.8	22.3	23.8	15.8	22.7
Zinc	mg/kg	114	187	427	74.6	56.4	134	58.3
AVS/SEM								
Acid Volatile Sulfide	µmol/g	1.7 J	0.60 J	1.4 J	1.1 J	0.067 UJ	2.4 J	0.15 J
Cadmium	µmol/g	0.0075	0.0084	0.0070	0.0027	0.0021	0.0044	0.0022
Copper	µmol/g	0.50 J	0.76 J	0.57 J	0.20 J	0.22 J	0.41 J	0.21 J
Lead	µmol/g	0.12	0.27 J	0.24	0.037	0.019	0.12	0.029
Mercury	µmol/g	R	R	R	R	R	R	R
Nickel	µmol/g	0.16	0.19 J	0.20	0.13	0.14	0.17	0.16
Zinc	µmol/g	1.3 J	2.5 J	2.0 J	0.66 J	0.38 J	1.7 J	0.40 J
Simultaneously Extracted Metals/Acid-Volatile Sulfide Ratio	mole ratio	1.23	6.21	2.16	0.936	38.1	0.989	5.34
General Chemistry								
Cyanide (total)	mg/kg	0.29 UJ	R	0.35 UJ	0.30 UJ	0.28 UJ	0.37 UJ	0.31 UJ
Percent Moisture	%	25.5	41.9	38.4	30.4	25.4	35.9	23.2
Total Organic Carbon (TOC)	mg/kg	17000	65400 J	20900	21400	11900	31200	30200

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SEDIMENTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	SCR S3A	SCR S3B	SRS 1A	SRS 1B	SRS 2A	SRS 2A	SRS 2B
	Sample Name:	SE-062508-RC-033	SE-062608-RC-045	SE-061908-RC-013	SE-061908-RC-014	SE-062308-RC-015	SE-062308-RC-016	SE-062608-RC-040
	Sample Date:	6/25/2008	6/26/2008	6/19/2008	6/19/2008	6/23/2008	6/23/2008	6/26/2008
	Depth:	(0-0.5) ft BGS	(0.5-1) ft BGS	(0-0.54) ft BGS	(0.5-1) ft BGS	(0-0.5) ft BGS	(0-0.5) ft BGS	(0.5-1) ft BGS
	Sample Type:	(orig)	(orig)	(orig)	(orig)	(orig)	(Duplicate)	(orig)
Parameters	*Units*							
Semi-Volatile Organic Compounds								
2,4-Dimethylphenol	µg/kg	460 UJ	400 U	530 U	480 U	520 UJ	470 UJ	410 U
2-Methylnaphthalene	µg/kg	180 U	160 U	98.7 J	465	210 U	128 J	170 U
2-Methylphenol	µg/kg	180 U	160 U	210 U	190 U	210 U	130 J	170 U
3&4-Methylphenol	µg/kg	180 U	160 U	210 U	190 U	210 U	128 J	170 U
Acenaphthene	µg/kg	180 U	160 U	358	2290	274	416	118 J
Acenaphthylene	µg/kg	180 U	160 U	428	613	287	330	89.5 J
Anthracene	µg/kg	180 U	160 U	1260	7550	888	1100	243
Benzo(a)anthracene	µg/kg	37.6 J	160 U	3180	15600	2960	3190	729
Benzo(a)pyrene	µg/kg	180 U	160 U	2990	12500	3130	3400	855
Benzo(b)fluoranthene	µg/kg	32.9 J	160 U	3560	12300	3170	3840	914
Benzo(g,h,i)perylene	µg/kg	180 U	160 U	2120	6940	2200	2390	578
Benzo(k)fluoranthene	µg/kg	180 U	160 U	2450	10500	2470	2320	513
bis(2-Ethylhexyl)phthalate	µg/kg	180 U	160 U	1390	1040	623	660	582
Butyl benzylphthalate	µg/kg	180 U	160 U	210 U	190 U	210 U	190 U	170 U
Carbazole	µg/kg	180 U	160 U	706	4550	552	768	118 J
Chrysene	µg/kg	48.2 J	160 U	3840	15200	3520	3900	851
Dibenz(a,h)anthracene	µg/kg	180 U	160 U	768	2710	698	794	219
Dibenzofuran	µg/kg	180 U	160 U	266	1720	190 J	304	62.8 J
Di-n-octyl phthalate	µg/kg	180 U	160 U	676	190 U	210 U	190 U	170 U
Fluoranthene	µg/kg	62.3 J	40.1 J	7230	32800	6590	7240	1730
Fluorene	µg/kg	180 U	160 U	443	3290	311	474	97.6 J
Indeno(1,2,3-cd)pyrene	µg/kg	180 U	160 U	1920	6890	2040	2250	723
Naphthalene	µg/kg	180 U	160 U	139 J	777 J	156 J	218	78.4 J
Phenanthrene	µg/kg	48.6 J	40.1 J	5040	33000	3760	5020	932
Phenol	µg/kg	180 U	160 U	210 U	190 U	210 U	190 U	170 U
Pyrene	µg/kg	56.9 J	35.6 J	5980	27100	5810	6330.	1540
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	µg/kg	44 U	42 U	52 UJ	48 U	49 U	53 U	46 U
Aroclor-1221 (PCB-1221)	µg/kg	44 U	42 U	52 UJ	48 U	49 U	53 U	46 U
Aroclor-1232 (PCB-1232)	µg/kg	44 U	42 U	52 UJ	48 U	49 U	53 U	46 U
Aroclor-1242 (PCB-1242)	µg/kg	44 U	42 U	52 UJ	48 U	276	326	1990
Aroclor-1248 (PCB-1248)	µg/kg	44 U	42 U	765 J	48 U	49 U	53 U	46 U
Aroclor-1254 (PCB-1254)	µg/kg	44 U	42 U	345 J	605	143	224	46 U
Aroclor-1260 (PCB-1260)	µg/kg	44 U	42 U	205 J	222	113	124	46 U

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SEDIMENTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	*SCR S3A*	*SCR S3B*	*SRS 1A*	*SRS 1B*	*SRS 2A*	*SRS 2A*	*SRS 2B*
	Sample Name:	*SE-062508-RC-033*	*SE-062608-RC-045*	*SE-061908-RC-013*	*SE-061908-RC-014*	*SE-062308-RC-015*	*SE-062308-RC-016*	*SE-062608-RC-040*
	Sample Date:	*6/25/2008*	*6/26/2008*	*6/19/2008*	*6/19/2008*	*6/23/2008*	*6/23/2008*	*6/26/2008*
	Depth:	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.54) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*
	Sample Type:	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(Duplicate)*	*(orig)*
Parameters	***Units***							
Metals								
Antimony	mg/kg	2.6 UJ	2.5 UJ	3.1 UJ	2.8 UJ	3.0 UJ	3.3 UJ	2.6 UJ
Arsenic	mg/kg	7.7	6.2	5.1	4.2	4.2	4.3	4.8
Barium	mg/kg	83.7	79.9	46.1	36.7	46.1	47.1	41.2
Beryllium	mg/kg	0.65 U	0.66	0.78 U	0.69 U	0.74 U	0.82 U	0.66 U
Cadmium	mg/kg	0.65 U	1.2	3.6	0.99	0.74	0.89	0.66 U
Chromium Total	mg/kg	23.8	20.2	25.0	18.8	21.6	21.6	19.6
Cobalt	mg/kg	10.1	15.1	7.8 U	6.9 U	7.4 U	8.2 U	6.8
Copper	mg/kg	27.8	26.6	43.1	29.6	43.9	46.0	27.6
Lead	mg/kg	23.3	10.4	59.7	56.0	43.9	42.5	29.5
Manganese	mg/kg	437	461	196	157	206	211	176
Mercury	mg/kg	0.039 U	0.039 U	0.079	0.060	0.080	0.066	0.060
Methyl mercury	ng/g	0.149	0.0275 U	0.301	0.117	0.529	0.483	0.146
Nickel	mg/kg	27.5	26.6	18.2	11.3	16.1	16.1	14.4
Selenium	mg/kg	2.6 U	2.5 U	3.1 U	2.8 U	3.0 U	3.3 U	2.6 U
Silver	mg/kg	1.3 U	1.2 U	1.6 U	1.4 U	1.5 U	1.6 U	1.3 U
Thallium	mg/kg	1.3 U	1.2 U	1.6 U	1.4 U	1.5 U	1.6 U	1.3 U
Vanadium	mg/kg	21.8	24.7	11.1	10	12.3	12.6	13.3
Zinc	mg/kg	57.2	55.4	142	106	150	152	71.8
AVS/SEM								
Acid Volatile Sulfide	µmol/g	0.066 UJ	0.65 UJ	2.0	2.5	1.5 J	1.9 J	1.9 J
Cadmium	µmol/g	0.0021	0.0022	0.0060	0.0060	0.0069	0.0062	0.0040
Copper	µmol/g	0.24 J	0.24 J	0.32 J	0.17 J	0.42 J	0.41 J	0.25 J
Lead	µmol/g	0.027	0.024	0.18	0.18	0.15	0.15	0.083
Mercury	µmol/g	R	R	R	R	R	R	R
Nickel	µmol/g	0.15	0.14	0.14	0.089	0.14	0.14	0.12
Zinc	µmol/g	0.43 J	0.38 J	1.8	1.3	1.7 J	1.8 J	0.81 J
Simultaneously Extracted Metals/Acid-Volatile Sulfide Ratio	mole ratio	17.0	13.6	1.22	0.708	1.61	1.32	0.667
General Chemistry								
Cyanide (total)	mg/kg	0.28 UJ	0.28 UJ	0.34 UJ	0.33 UJ	0.31 UJ	0.37 UJ	0.31 UJ
Percent Moisture	%	25.2	22.6	36.7	30.7	33.8	36.8	27.4
Total Organic Carbon (TOC)	mg/kg	21200	4330	25600	26600	23400	24400	7860

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SEDIMENTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	*SRS 3A*	*SRS 3B*	*SRS 4A*	*SRS 4B*	*SRS 5A*	*SRS 5A*	*SRS 5B*
	Sample Name:	*SE-062308-RC-017*	*SE-062308-RC-018*	*SE-062308-RC-019*	*SE-062308-RC-020*	*SE-062308-RC-021*	*SE-062308-RC-022*	*SE-062308-RC-023*
	Sample Date:	*6/23/2008*	*6/23/2008*	*6/23/2008*	*6/23/2008*	*6/23/2008*	*6/23/2008*	*6/23/2008*
	Depth:	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*
	Sample Type:	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(Duplicate)*	*(orig)*
Parameters	***Units***							
Semi-Volatile Organic Compounds								
2,4-Dimethylphenol	µg/kg	540 UJ	470 UJ	490 UJ	470 UJ	400 UJ	420 UJ	430 UJ
2-Methylnaphthalene	µg/kg	112 J	190 U	190 U	190 U	333 J	667	170 U
2-Methylphenol	µg/kg	210 U	190 U	190 U	190 U	160 U	170 U	170 U
3&4-Methylphenol	µg/kg	210 U	190 U	190 U	190 U	160 U	170 U	170 U
Acenaphthene	µg/kg	703 J	190 U	292	260	915 J	1160	61.3 J
Acenaphthylene	µg/kg	209 J	50.8 J	338	232	340 J	287	118 J
Anthracene	µg/kg	1750	190 U	1070	723	1800 J	2220	240
Benzo(a)anthracene	µg/kg	3720 J	165 J	2920	2100	4540 J	4490	634
Benzo(a)pyrene	µg/kg	3620	189 J	2980	2110	4520 J	4380	639
Benzo(b)fluoranthene	µg/kg	3480 J	131 J	3060	2030	4050 J	4260	480
Benzo(g,h,i)perylene	µg/kg	2380 J	125 J	2030	1390	2770 J	2610	422
Benzo(k)fluoranthene	µg/kg	2960	178 J	2160	1710	3390 J	3040	483
bis(2-Ethylhexyl)phthalate	µg/kg	458 J	190 U	585	355	329 J	229	99.6 J
Butyl benzylphthalate	µg/kg	210 U	190 U	190 U	190 U	160 UJ	170 U	170 U
Carbazole	µg/kg	1060 J	190 U	504	440	1140 J	1570	63.0 J
Chrysene	µg/kg	4100 J	244	3430	2500	4820 J	4730	750
Dibenz(a,h)anthracene	µg/kg	755 J	38.3 J	598	418	944 J	913	116 J
Dibenzofuran	µg/kg	446 J	190 U	179 J	157 J	729 J	1280	170 U
Di-n-octyl phthalate	µg/kg	210 U	190 U	190 U	190 U	160 UJ	170 U	170 U
Fluoranthene	µg/kg	8640 J	417	6510	4980	9700 J	11500	1490
Fluorene	µg/kg	750 J	190 U	343	290	945 J	1400	75.2 J
Indeno(1,2,3-cd)pyrene	µg/kg	2270 J	109 J	1920	1290	2700 J	2630	376
Naphthalene	µg/kg	292 J	190 U	123 J	116 J	813 J	2340	170 U
Phenanthrene	µg/kg	6740 J	264	3880	3270	7360 J	10200	757
Phenol	µg/kg	210 U	190 U	190 U	190 U	160 U	170 U	170 U
Pyrene	µg/kg	7460 J	420	5620	4330	7620 J	7900	1330
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	µg/kg	57 U	48 U	48 U	52 U	40 U	42 U	45 U
Aroclor-1221 (PCB-1221)	µg/kg	57 U	48 U	48 U	52 U	40 U	42 U	45 U
Aroclor-1232 (PCB-1232)	µg/kg	57 U	48 U	48 U	52 U	40 U	42 U	45 U
Aroclor-1242 (PCB-1242)	µg/kg	277	48 U	194	127	40 U	42 U	45 U
Aroclor-1248 (PCB-1248)	µg/kg	57 U	1590	48 U	52 U	204	174	91.1
Aroclor-1254 (PCB-1254)	µg/kg	143	48 U	142	135	117	84.0	61.8
Aroclor-1260 (PCB-1260)	µg/kg	103	88.5	120	180	94.2	121	59.5

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SEDIMENTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	*SRS 3A*	*SRS 3B*	*SRS 4A*	*SRS 4B*	*SRS 5A*	*SRS 5A*	*SRS 5B*
	Sample Name:	*SE-062308-RC-017*	*SE-062308-RC-018*	*SE-062308-RC-019*	*SE-062308-RC-020*	*SE-062308-RC-021*	*SE-062308-RC-022*	*SE-062308-RC-023*
	Sample Date:	*6/23/2008*	*6/23/2008*	*6/23/2008*	*6/23/2008*	*6/23/2008*	*6/23/2008*	*6/23/2008*
	Depth:	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*	*(0-0.5) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*
	Sample Type:	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(Duplicate)*	*(orig)*
Parameters	***Units***							
Metals								
Antimony	mg/kg	3.6 UJ	2.7 UJ	3.0 UJ	3.1 UJ	2.5 UJ	2.4 UJ	2.7 UJ
Arsenic	mg/kg	3.6 U	4.8	4.0	4.6	3.1	3.1	3.6
Barium	mg/kg	36 U	75.4	54.7	77.7	25 U	24 U	27 U
Beryllium	mg/kg	0.91 U	0.69 U	0.75 U	0.77 U	0.62 U	0.61 U	0.68 U
Cadmium	mg/kg	0.91 U	0.69 U	0.75 U	0.77 U	0.62 U	0.73	0.68 U
Chromium Total	mg/kg	11.3	26.4	20.3	26.4	11.6	17.7	11.0
Cobalt	mg/kg	9.1 U	7.4	7.5 U	7.7 U	6.2 U	6.1 U	6.8 U
Copper	mg/kg	30.8 J	26.4	43.3	41.0	26.7	17.8	13.9
Lead	mg/kg	21.6	13.6	38.7	33.4	17.4	17.3	13.7
Manganese	mg/kg	107	422	182	285	192	200	246
Mercury	mg/kg	0.057	0.070	0.14	0.056	0.037	0.037 U	0.042 U
Methyl mercury	ng/g	0.541	0.385	0.294	0.203	0.262	0.341	0.032
Nickel	mg/kg	8.1	21.7	18.2	25.6	9.9	8.4	10.4
Selenium	mg/kg	3.6 U	2.7 U	3.0 U	3.1 U	2.5 U	2.4 U	2.7 U
Silver	mg/kg	1.8 U	1.4 U	1.5 U	1.5 U	1.2 U	1.2 U	1.4 U
Thallium	mg/kg	1.8 U	1.4 U	1.5 U	1.5 U	1.2 U	1.2 U	1.4 U
Vanadium	mg/kg	9.1 U	22.4	12.0	17.2	7.2	7.2	9.2
Zinc	mg/kg	72.3 J	51.5	148	117	61.2	57.8	51.0
AVS/SEM								
Acid Volatile Sulfide	µmol/g	1.5 J	0.71 UJ	0.88 J	2.7 J	1.2 J	1.5 J	0.96 J
Cadmium	µmol/g	0.0052	0.0044	0.0059	0.0054	0.0038	0.0037	0.0021
Copper	µmol/g	0.35 J	0.24 J	0.31 J	0.038 J	0.17 J	0.15 J	0.054 J
Lead	µmol/g	0.13	0.040	0.15	0.12	0.072	0.062	0.054
Mercury	µmol/g	R	R	R	R	R	R	R
Nickel	µmol/g	0.11	0.16	0.17	0.21	0.068	0.080	0.070
Zinc	µmol/g	1.6 J	0.43 J	1.8 J	1.5 J	0.97 J	0.84 J	0.55 J
Simultaneously Extracted Metals/Acid-Volatile Sulfide Ratio	mole ratio	1.48	2.08	2.76	0.683	1.05	0.757	0.761
General Chemistry								
Cyanide (total)	mg/kg	0.41 UJ	0.34 UJ	0.31 UJ	0.32 UJ	0.25 UJ	0.28 UJ	0.28 UJ
Percent Moisture	%	42.0	30.0	32.0	36.7	17.3	21.3	26.1
Total Organic Carbon (TOC)	mg/kg	25900	12500	24900	16700	33700	13100	12500

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SEDIMENTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	*SRS 6A*	*SRS 6A*	*SRS 6B*
	Sample Name:	*SE-062408-RC-024*	*SE-062408-RC-025*	*SE-062608-RC-041*
	Sample Date:	*6/24/2008*	*6/24/2008*	*6/26/2008*
	Depth:	*(0-0.5) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*
	Sample Type:	*(orig)*	*(Duplicate)*	*(orig)*
Parameters	***Units***			
Semi-Volatile Organic Compounds				
2,4-Dimethylphenol	µg/kg	2200 U	450 UJ	390 U
2-Methylnaphthalene	µg/kg	995	2180	160 U
2-Methylphenol	µg/kg	890 U	180 U	160 U
3&4-Methylphenol	µg/kg	890 U	163 J	160 U
Acenaphthene	µg/kg	2860	4890	160 U
Acenaphthylene	µg/kg	272 J	587	160 U
Anthracene	µg/kg	4750	6880	160 U
Benzo(a)anthracene	µg/kg	12100	14700	87.4 J
Benzo(a)pyrene	µg/kg	11000	12400	78.8 J
Benzo(b)fluoranthene	µg/kg	10400	10500	93.2 J
Benzo(g,h,i)perylene	µg/kg	5440	6210	73.8 J
Benzo(k)fluoranthene	µg/kg	8440	5600	73.6 J
bis(2-Ethylhexyl)phthalate	µg/kg	890 U	1210	160 U
Butyl benzylphthalate	µg/kg	890 U	180 U	160 U
Carbazole	µg/kg	4290	5710	160 U
Chrysene	µg/kg	12300	15200	95.8 J
Dibenz(a,h)anthracene	µg/kg	2050	2730	160 U
Dibenzofuran	µg/kg	2880 J	4300	160 U
Di-n-octyl phthalate	µg/kg	890 U	180 U	160 U
Fluoranthene	µg/kg	31900	34700	174
Fluorene	µg/kg	2790	5160	160 U
Indeno(1,2,3-cd)pyrene	µg/kg	7710	6440	85.8 J
Naphthalene	µg/kg	2670	6240	160 U
Phenanthrene	µg/kg	29500	37200	72.9 J
Phenol	µg/kg	890 U	180 U	160 U
Pyrene	µg/kg	23200	30300	157 J
Polychlorinated Biphenyls (PCBs)				
Aroclor-1016 (PCB-1016)	µg/kg	53 U	49 U	43 U
Aroclor-1221 (PCB-1221)	µg/kg	53 U	49 U	43 U
Aroclor-1232 (PCB-1232)	µg/kg	53 U	49 U	43 U
Aroclor-1242 (PCB-1242)	µg/kg	53 U	49 U	43 U
Aroclor-1248 (PCB-1248)	µg/kg	597 J	79.7 J	43 U
Aroclor-1254 (PCB-1254)	µg/kg	53 U	80.8	43 U
Aroclor-1260 (PCB-1260)	µg/kg	324 J	84.8 J	43 U

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SEDIMENTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	*SRS 6A*	*SRS 6A*	*SRS 6B*
	Sample Name:	*SE-062408-RC-024*	*SE-062408-RC-025*	*SE-062608-RC-041*
	Sample Date:	*6/24/2008*	*6/24/2008*	*6/26/2008*
	Depth:	*(0-0.5) ft BGS*	*(0-0.5) ft BGS*	*(0.5-1) ft BGS*
	Sample Type:	*(orig)*	*(Duplicate)*	*(orig)*
Parameters	***Units***			
Metals				
Antimony	mg/kg	3.1 UJ	3.1 UJ	2.5 UJ
Arsenic	mg/kg	4.9	3.6	5.6
Barium	mg/kg	52.9	45.7	58.2
Beryllium	mg/kg	0.77 U	0.76 U	0.62 U
Cadmium	mg/kg	3.2 J	0.76 UJ	0.89
Chromium Total	mg/kg	52.2 J	16.1 J	16.4
Cobalt	mg/kg	7.7 U	7.6 U	12.3
Copper	mg/kg	23.9	30.2	21.5
Lead	mg/kg	18.2	28.1	8.0
Manganese	mg/kg	330 J	224	330
Mercury	mg/kg	0.048 UJ	0.20 J	0.041 U
Methyl mercury	ng/g	0.697	0.597	0.0348
Nickel	mg/kg	12.0 J	13.2	20.6
Selenium	mg/kg	3.1 U	3.1 U	2.5 U
Silver	mg/kg	1.5 U	1.5 U	1.2 U
Thallium	mg/kg	1.5 U	1.5 U	1.2 U
Vanadium	mg/kg	8.9	11.1	22.5
Zinc	mg/kg	86.2 J	86.6	51.2
AVS/SEM				
Acid Volatile Sulfide	µmol/g	1.2 J	1.2 J	0.64 UJ
Cadmium	µmol/g	0.0047	0.0044	0.0019
Copper	µmol/g	0.18 J	0.076 J	0.17 J
Lead	µmol/g	0.096 J	0.078	0.021
Mercury	µmol/g	R	R	R
Nickel	µmol/g	0.097	0.085	0.13
Zinc	µmol/g	0.99 J	1.1 J	0.33 J
Simultaneously Extracted Metals/Acid-Volatile Sulfide Ratio	mole ratio	1.14	1.12	1.93
General Chemistry				
Cyanide (total)	mg/kg	R	0.33 UJ	0.27 UJ
Percent Moisture	%	37.8	33.8	22.9
Total Organic Carbon (TOC)	mg/kg	35600	27100	3740

Notes:

AVS/SEM	Acid volatile sulfide/simultaneously extracted metals.
J	Estimated.
R	Rejected.
U	Not detected.
UJ	Not detected, estimated reporting limit.

TABLE 2B

ANALYTICAL RESULTS SUMMARY - TISSUE
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Location Name:	DSR-BB-7	DSR-BB-8	DSR-CC-4A	DSR-CC-4B	DSR-CFSH-3	DSR-CFSH-4	DSR-WS-6	DSR-WS-7
Sample Name:	TA-061008-SM-044	TA-061008-SM-045	TA-061008-SM-012	TA-061008-SM-013	TA-061008-SM-004	TA-061008-SM-005	TA-061008-SM-025	TA-061208-SM-026
Sample Date:	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/12/2008
Sample Type:	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)
Parameters	***Units***							
Semi-Volatile Organic Compounds								
2,4-Dimethylphenol	µg/kg	500 UJ	490 UJ	340 U	--	270 U	320 U	980 U	510 U
2-Methylnaphthalene	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
2-Methylphenol	µg/kg	200 UJ	200 UJ	104 J	--	110 U	130 U	390 U	200 U
3&4-Methylphenol	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Acenaphthene	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Acenaphthylene	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Anthracene	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Benzo(a)anthracene	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Benzo(a)pyrene	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Benzo(b)fluoranthene	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Benzo(g,h,i)perylene	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Benzo(k)fluoranthene	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
bis(2-Ethylhexyl)phthalate	µg/kg	262 UJ	200 UJ	712	--	533	674	1090 U	785 U
Butyl benzylphthalate	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Carbazole	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Chrysene	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Dibenz(a,h)anthracene	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Dibenzofuran	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Di-n-octyl phthalate	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Fluoranthene	µg/kg	200 UJ	200 UJ	140 U	--	40.2 J	42.4 J	390 U	200 U
Fluorene	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Indeno(1,2,3-cd)pyrene	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Naphthalene	µg/kg	200 UJ	200 UJ	140 UJ	--	110 UJ	130 UJ	390 U	200 U
Phenanthrene	µg/kg	200 UJ	200 UJ	140 U	--	43.3 J	71.5 J	390 U	200 U
Phenol	µg/kg	200 UJ	200 UJ	140 U	--	110 U	130 U	390 U	200 U
Pyrene	µg/kg	200 UJ	200 UJ	140 U	--	30.1 J	28.9 J	390 U	200 U
PCBs									
Aroclor-1016 (PCB-1016)	µg/kg	50 UJ	49 UJ	34 U	93 U	27 U	32 U	98 U	51 U
Aroclor-1221 (PCB-1221)	µg/kg	50 UJ	49 UJ	34 U	93 U	27 U	32 U	98 U	51 U
Aroclor-1232 (PCB-1232)	µg/kg	50 UJ	49 UJ	34 U	93 U	27 U	32 U	98 U	51 U
Aroclor-1242 (PCB-1242)	µg/kg	50 UJ	49 UJ	34 U	93 U	27 U	32 U	863	51 U
Aroclor-1248 (PCB-1248)	µg/kg	949 J	379 J	2390	2030	315	436 J	98 U	1290 J
Aroclor-1254 (PCB-1254)	µg/kg	528 J	194 J	778	927	348	434 J	384	727 J
Aroclor-1260 (PCB-1260)	µg/kg	312 J	121 J	229	322	67.1	109 J	228	473 J

TABLE 2B

ANALYTICAL RESULTS SUMMARY - TISSUE
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	DSR-BB-7	DSR-BB-8	DSR-CC-4A	DSR-CC-4B	DSR-CFSH-3	DSR-CFSH-4	DSR-WS-6	DSR-WS-7
	Sample Name:	TA-061008-SM-044	TA-061008-SM-045	TA-061008-SM-012	TA-061008-SM-013	TA-061008-SM-004	TA-061008-SM-005	TA-061008-SM-025	TA-061208-SM-026
	Sample Date:	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/12/2008
	Sample Type:	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)
Parameters	***Units***								
Metals									
Antimony	mg/kg	0.67 U	0.58 U	0.70 U	--	0.68 U	0.66 U	0.67 U	0.67 U
Arsenic	mg/kg	0.67 U	0.58 U	0.70 U	--	0.68 U	0.66 U	0.67 U	0.67 U
Barium	mg/kg	6.7 U	5.8 U	7.0 U	--	6.8 U	8.4	6.7 U	6.7 U
Beryllium	mg/kg	0.17 U	0.14 U	0.17 U	--	0.17 U	0.17 U	0.17 U	0.17 U
Cadmium	mg/kg	0.17 U	0.14 U	0.17 U	--	0.17 U	0.18	0.17 U	0.17 U
Chromium Total	mg/kg	0.34 U	0.29 U	0.35 U	--	0.34 U	0.33 U	0.33 U	0.33 U
Cobalt	mg/kg	1.7 U	1.4 U	1.7 U	--	1.7 U	1.7 U	1.7 U	1.7 U
Copper	mg/kg	0.84 U	0.72 U	2.6	--	25.3	32.8	1.0	1.5
Lead	mg/kg	0.67 U	0.58 U	0.70 U	--	0.68 U	0.66 U	0.67 U	0.67 U
Manganese	mg/kg	0.51 U	0.50	1.5	--	30.2	50.3	3.5	1.8
Mercury	mg/kg	0.14	0.27	0.044	--	0.032 U	0.033 U	0.039	0.057
Methyl mercury	µg/g	0.181	--	0.0617	0.0579	0.0149	0.0149	0.0587	0.0660
Nickel	mg/kg	1.3 U	1.2 U	1.4 U	--	1.4 U	1.5	1.3 U	1.3 U
Selenium	mg/kg	0.67 U	0.58 U	0.70 U	--	0.68 U	0.66 U	0.67 U	0.67 U
Silver	mg/kg	0.34 U	0.29 U	0.35 U	--	0.34 U	0.33 U	0.33 U	0.33 U
Thallium	mg/kg	0.34 U	0.29 U	0.35 U	--	0.34 U	0.33 U	0.33 U	0.33 U
Vanadium	mg/kg	1.7 U	1.4 U	1.7 U	--	1.7 U	1.7 U	1.7 U	1.7 U
Zinc	mg/kg	6.5	10.1	36.2	--	18.7	20.7	13.2	16.9
General Chemistry									
Cyanide (total)	mg/kg	0.23 U	0.20 U	0.20 U	--	0.20 U	0.20 U	0.21 U	0.23 U
Lipids	%	0.23	0.10 U	1.5	1.7	0.80	0.57	0.24	0.39
Percent Moisture	%	81.6	81.5	74.7	--	80.1	79.7	76.6	77.1

TABLE 2B

ANALYTICAL RESULTS SUMMARY - TISSUE
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Location Name:	DSR-WS-7	DSR-WS-8	DSR-WS-9	DSR-WS-10	NBR-CC-5	NBR-CC-6	NBR-CFSH-6	NBR-WS-11
Sample Name:	TA-061208-SM-027	TA-061208-SM-028	TA-061208-SM-029	TA-061108-SM-030	TA-061108-SM-014	TA-061108-SM-015	TA-061108-SM-007	TA-061108-SM-031
Sample Date:	6/12/2008	6/12/2008	6/12/2008	6/11/2008	6/11/2008	6/11/2008	6/11/2008	6/11/2008
Sample Type:	(Duplicate)	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)
Parameters	***Units***							
Semi-Volatile Organic Compounds								
2,4-Dimethylphenol	µg/kg	500 U	330 U	330 U	330 U	340 U	340 U	310 U	500 U
2-Methylnaphthalene	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
2-Methylphenol	µg/kg	200 U	130 U	75.4 J	123 J	102 J	123 J	120 U	200 U
3&4-Methylphenol	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Acenaphthene	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Acenaphthylene	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Anthracene	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Benzo(a)anthracene	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Benzo(a)pyrene	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Benzo(b)fluoranthene	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Benzo(g,h,i)perylene	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Benzo(k)fluoranthene	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
bis(2-Ethylhexyl)phthalate	µg/kg	200 U	306 U	408 U	517 U	487	394	561	857 U
Butyl benzylphthalate	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Carbazole	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Chrysene	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Dibenz(a,h)anthracene	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Dibenzofuran	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Di-n-octyl phthalate	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Fluoranthene	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Fluorene	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Indeno(1,2,3-cd)pyrene	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
Naphthalene	µg/kg	200 U	130 U	130 U	130 U	130 UJ	130 UJ	120 UJ	200 U
Phenanthrene	µg/kg	200 U	130 U	27.3 J	130 U	23.7 J	27.2 J	34.0 J	200 U
Phenol	µg/kg	200 U	130 U	93.6 J	110 J	130 U	130 U	120 U	200 U
Pyrene	µg/kg	200 U	130 U	130 U	130 U	130 U	130 U	120 U	200 U
PCBs								
Aroclor-1016 (PCB-1016)	µg/kg	50 U	33 U	33 U	33 U	34 U	34 U	31 U	50 U
Aroclor-1221 (PCB-1221)	µg/kg	50 U	33 U	33 U	33 U	34 U	34 U	31 U	50 U
Aroclor-1232 (PCB-1232)	µg/kg	50 U	33 U	33 U	33 U	34 U	34 U	31 U	50 U
Aroclor-1242 (PCB-1242)	µg/kg	50 U	33 U	1540	813 J	34 U	34 U	31 U	50 U
Aroclor-1248 (PCB-1248)	µg/kg	114 J	1080	33 U	33 U	80.9	243	31 U	89.9
Aroclor-1254 (PCB-1254)	µg/kg	83.1 J	613	325	418 J	154	349	31 U	111
Aroclor-1260 (PCB-1260)	µg/kg	50 UJ	332	136	245 J	125	202	55.3	51.1

TABLE 2B

ANALYTICAL RESULTS SUMMARY - TISSUE
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	DSR-WS-7	DSR-WS-8	DSR-WS-9	DSR-WS-10	NBR-CC-5	NBR-CC-6	NBR-CFSH-6	NBR-WS-11
	Sample Name:	TA-061208-SM-027	TA-061208-SM-028	TA-061208-SM-029	TA-061108-SM-030	TA-061108-SM-014	TA-061108-SM-015	TA-061108-SM-007	TA-061108-SM-031
	Sample Date:	6/12/2008	6/12/2008	6/12/2008	6/11/2008	6/11/2008	6/11/2008	6/11/2008	6/11/2008
	Sample Type:	(Duplicate)	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)
Parameters	*Units*								
Metals									
Antimony	mg/kg	0.66 U	0.68 U	0.64 U	0.63 U	0.67 U	0.66 U	0.66 U	0.68 U
Arsenic	mg/kg	0.66 U	0.68 U	0.64 U	0.63 U	0.67 U	0.66 U	0.66 U	0.68 U
Barium	mg/kg	6.6 U	6.8 U	6.4 U	6.3 U	6.7 U	6.6 U	16.5	6.8 U
Beryllium	mg/kg	0.17 U	0.17 U	0.16 U	0.16 U	0.17 U	0.17 U	0.17 U	0.17 U
Cadmium	mg/kg	0.17 U	0.17 U	0.16 U	0.16 U	0.17 U	0.17 U	0.24	0.17 U
Chromium Total	mg/kg	0.33 U	0.34 U	0.61	0.37	0.34 U	0.33 U	0.40	0.34 U
Cobalt	mg/kg	1.7 U	1.7 U	1.6 U	1.6 U	1.7 U	1.7 U	1.7 U	1.7 U
Copper	mg/kg	1.3	1.7	1.4	1.3	4.8	7.9	30.5	1.3
Lead	mg/kg	0.66 U	0.68 U	2.5	0.63 U	0.67 U	0.66 U	0.79	0.68 U
Manganese	mg/kg	2.5	3.9	4.4	5.6	2.3	2.6	81.1	3.4
Mercury	mg/kg	0.056	0.068	0.069	0.069	0.12	0.084	0.030 U	0.12
Methyl mercury	µg/g	0.0746	0.0939	0.0599	0.0782	0.126	0.114	0.0276	0.115
Nickel	mg/kg	1.3 U	1.4 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.4 U
Selenium	mg/kg	0.66 U	0.68 U	0.64 U	0.63 U	0.67 U	0.66 U	0.66 U	0.68 U
Silver	mg/kg	0.33 U	0.34 U	0.32 U	0.32 U	0.34 U	0.33 U	0.33 U	0.34 U
Thallium	mg/kg	0.33 U	0.34 U	0.32 U	0.32 U	0.34 U	0.33 U	0.40 U	0.34 U
Vanadium	mg/kg	1.7 U	1.7 U	1.6 U	1.6 U	1.7 U	1.7 U	1.7 U	1.7 U
Zinc	mg/kg	16.3	16.7	16.4	20.8	29.6	28.8	19.9	15.9
General Chemistry									
Cyanide (total)	mg/kg	0.20 U	0.20 U	0.20 U	0.23 U	0.22 U	0.22 U	0.22 U	0.21 U
Lipids	%	0.43	0.24	0.38	2.5	0.45	2.0	0.47	0.66
Percent Moisture	%	79.2	75.0	75.8	73.7	77.9	78.3	79.2	76.0

TABLE 2B

ANALYTICAL RESULTS SUMMARY - TISSUE
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Location Name:	NBR-WS-12	NBR-WS-15	NY-REF-1	SAN-CC-10	SAN-CC-9	SAN-CFSH-5	SAN-WS-13	SAN-WS-14
Sample Name:	TA-061108-SM-032	TA-061108-SM-033	TA-062408-SM-046	TA-061108-SM-019	TA-061108-SM-018	TA-061108-SM-006	TA-061108-SM-034	TA-061108-SM-035
Sample Date:	6/11/2008	6/11/2008	6/24/2008	6/11/2008	6/11/2008	6/11/2008	6/11/2008	6/11/2008
Sample Type:	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)
Parameters	***Units***							
Semi-Volatile Organic Compounds								
2,4-Dimethylphenol	µg/kg	330 U	530 U	--	490 U	490 U	330 U	510 U	500 UJ
2-Methylnaphthalene	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
2-Methylphenol	µg/kg	130 U	210 U	--	135 J	101 J	130 U	200 U	200 UJ
3&4-Methylphenol	µg/kg	119 J	210 U	--	200 U	133 J	130 U	200 U	200 UJ
Acenaphthene	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Acenaphthylene	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Anthracene	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Benzo(a)anthracene	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Benzo(a)pyrene	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Benzo(b)fluoranthene	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Benzo(g,h,i)perylene	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Benzo(k)fluoranthene	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
bis(2-Ethylhexyl)phthalate	µg/kg	335 U	795 U	--	1370	600	223	620 U	200 UJ
Butyl benzylphthalate	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Carbazole	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Chrysene	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Dibenz(a,h)anthracene	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Dibenzofuran	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Di-n-octyl phthalate	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Fluoranthene	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Fluorene	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Indeno(1,2,3-cd)pyrene	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Naphthalene	µg/kg	130 U	210 U	--	200 U	190 U	130 UJ	200 U	200 UJ
Phenanthrene	µg/kg	48.3 J	210 U	--	200 U	190 U	24.1 J	200 U	200 UJ
Phenol	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
Pyrene	µg/kg	130 U	210 U	--	200 U	190 U	130 U	200 U	200 UJ
PCBs								
Aroclor-1016 (PCB-1016)	µg/kg	33 U	51 U	500 U	49 U	49 U	33 U	51 U	50 UJ
Aroclor-1221 (PCB-1221)	µg/kg	33 U	51 U	500 U	49 U	49 U	33 U	51 U	50 UJ
Aroclor-1232 (PCB-1232)	µg/kg	33 U	51 U	500 U	49 U	49 U	33 U	51 U	50 UJ
Aroclor-1242 (PCB-1242)	µg/kg	33 U	51 U	500 U	49 U	49 U	33 U	51 U	50 UJ
Aroclor-1248 (PCB-1248)	µg/kg	146 J	173	4030	49 U	49 U	33 U	51 U	50 UJ
Aroclor-1254 (PCB-1254)	µg/kg	145 J	208	2780	714	602	183	792	263 J
Aroclor-1260 (PCB-1260)	µg/kg	90.2 J	236	1290	1740	1250	453	1480	409 J

TABLE 2B

ANALYTICAL RESULTS SUMMARY - TISSUE
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	NBR-WS-12	NBR-WS-15	NY-REF-1	SAN-CC-10	SAN-CC-9	SAN-CFSH-5	SAN-WS-13	SAN-WS-14
	Sample Name:	TA-061108-SM-032	TA-061108-SM-033	TA-062408-SM-046	TA-061108-SM-019	TA-061108-SM-018	TA-061108-SM-006	TA-061108-SM-034	TA-061108-SM-035
	Sample Date:	6/11/2008	6/11/2008	6/24/2008	6/11/2008	6/11/2008	6/11/2008	6/11/2008	6/11/2008
	Sample Type:	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)
Parameters	***Units***								
Metals									
Antimony	mg/kg	0.67 U	0.71 U	--	0.63 U	0.66 U	0.98 U	0.70 U	0.66 U
Arsenic	mg/kg	0.67 U	0.71 U	--	0.63 U	0.66 U	0.98 U	0.70 U	0.66 U
Barium	mg/kg	6.7 U	7.1 U	--	6.3 U	6.6 U	14.8	7.0 U	6.6 U
Beryllium	mg/kg	0.17 U	0.18 U	--	0.16 U	0.17 U	0.24 U	0.17 U	0.17 U
Cadmium	mg/kg	0.17 U	0.18 U	--	0.16 U	0.17 U	0.24 U	0.17 U	0.17 U
Chromium Total	mg/kg	0.33 U	0.35 U	--	0.32 U	0.33 U	1.0	0.35 U	0.50
Cobalt	mg/kg	1.7 U	1.8 U	--	1.6 U	1.7 U	2.4 U	1.7 U	1.7 U
Copper	mg/kg	0.84	0.90	--	3.3	4.2	39.9	0.92	1.2
Lead	mg/kg	0.67 U	0.71 U	--	0.63 U	0.66 U	0.98 U	0.70 U	0.66 U
Manganese	mg/kg	6.0	5.6	--	3.4	3.8	70.4	4.9	4.7
Mercury	mg/kg	0.081	0.10	--	0.062	0.085	0.031 U	0.071	0.094
Methyl mercury	µg/g	0.0807	0.111	0.279	0.0876	0.0629	0.0163	0.0726	0.0955
Nickel	mg/kg	1.3 U	1.4 U	--	1.3 U	1.3 U	2.0 U	1.4 U	1.3 U
Selenium	mg/kg	0.67 U	0.71 U	--	0.63 U	0.66 U	0.98 U	0.70 U	0.66 U
Silver	mg/kg	0.33 U	0.35 U	--	0.32 U	0.33 U	0.49 U	0.35 U	0.33 U
Thallium	mg/kg	0.33 U	0.35 U	--	0.32 U	0.33 U	0.49 U	0.35 U	0.33 U
Vanadium	mg/kg	1.7 U	1.8 U	--	1.6 U	1.7 U	2.4 U	1.7 U	1.7 U
Zinc	mg/kg	18.4	25.4	--	28.7	34.0	23.6	18.7	23.4
General Chemistry									
Cyanide (total)	mg/kg	0.23 U	0.24 U	--	0.21 U	0.20 U	0.21 U	0.23 U	0.24 U
Lipids	%	1.3	0.82	--	2.3	1.5	0.61 J	1.8	0.73
Percent Moisture	%	77.7	79.1	--	77.9	77.2	79.4	74.7	80.3

TABLE 2B

ANALYTICAL RESULTS SUMMARY - TISSUE
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	*SAN-WS-16*	*SBR-CC-7*	*SBR-CC-8*	*SBR-CFSH-7*	*SR-BB-1*	*SR-BB-2*	*SR-BB-3*	*SR-BB-4*
	Sample Name:	*TA-061108-SM-036*	*TA-061108-SM-016*	*TA-061108-SM-017*	*TA-061108-SM-008*	*TA-060908-SM-037*	*TA-060908-SM-038*	*TA-060908-SM-039*	*TA-060908-SM-040*
	Sample Date:	*6/11/2008*	*6/11/2008*	*6/11/2008*	*6/11/2008*	*6/9/2008*	*6/9/2008*	*6/9/2008*	*6/9/2008*
	Sample Type:	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*
Parameters	***Units***								
Semi-Volatile Organic Compounds									
2,4-Dimethylphenol	µg/kg	500 U	350 U	300 U	300 U	330 UJ	330 UJ	330 UJ	330 UJ
2-Methylnaphthalene	µg/kg	200 U	140 U	120 U	120 U	130 U	130 U	130 U	130 U
2-Methylphenol	µg/kg	200 U	95.6 J	106 J	120 U	130 UJ	130 UJ	130 UJ	130 UJ
3&4-Methylphenol	µg/kg	200 U	140 U	120 U	120 U	130 UJ	130 UJ	130 UJ	130 UJ
Acenaphthene	µg/kg	200 U	140 U	26.1 J	120 U	130 UJ	130 UJ	130 UJ	130 UJ
Acenaphthylene	µg/kg	200 U	140 U	120 U	120 U	130 UJ	130 UJ	130 UJ	130 UJ
Anthracene	µg/kg	200 U	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Benzo(a)anthracene	µg/kg	200 U	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Benzo(a)pyrene	µg/kg	200 U	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Benzo(b)fluoranthene	µg/kg	200 U	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Benzo(g,h,i)perylene	µg/kg	200 U	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Benzo(k)fluoranthene	µg/kg	200 U	140 U	120 U	120 U	130 U	130 U	130 U	130 U
bis(2-Ethylhexyl)phthalate	µg/kg	1670	750	528	322	314 U	442 U	355 U	373 U
Butyl benzylphthalate	µg/kg	200 U	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Carbazole	µg/kg	200 U	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Chrysene	µg/kg	200 U	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Dibenz(a,h)anthracene	µg/kg	200 U	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Dibenzofuran	µg/kg	200 U	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Di-n-octyl phthalate	µg/kg	200 U	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Fluoranthene	µg/kg	200 U	140 U	120 U	120 U	17.7 J	25.3 J	130 U	38.4 J
Fluorene	µg/kg	200 U	140 U	24.4 J	120 U	130 UJ	130 UJ	130 UJ	20.8 J
Indeno(1,2,3-cd)pyrene	µg/kg	200 U	140 U	120 U	120 U	130 U	130 U	130 U	130 U
Naphthalene	µg/kg	200 U	140 UJ	120 UJ	120 UJ	130 UJ	130 UJ	130 UJ	130 UJ
Phenanthrene	µg/kg	200 U	29.5 J	42.7 J	31.1 J	35.3 J	72.8 J	52.9 J	120 J
Phenol	µg/kg	200 U	140 U	120 U	120 U	128 J	130 U	130 U	130 U
Pyrene	µg/kg	200 U	140 U	120 U	120 U	130 U	130 U	130 U	130 U
PCBs									
Aroclor-1016 (PCB-1016)	µg/kg	50 U	35 U	30 U	30 U	33 U	33 U	33 U	33 U
Aroclor-1221 (PCB-1221)	µg/kg	50 U	35 U	30 U	30 U	33 U	33 U	33 U	33 U
Aroclor-1232 (PCB-1232)	µg/kg	50 U	35 U	30 U	30 U	33 U	33 U	33 U	33 U
Aroclor-1242 (PCB-1242)	µg/kg	50 U	35 U	30 U	30 U	33 U	33 U	33 U	33 U
Aroclor-1248 (PCB-1248)	µg/kg	50 U	167	269	30 U	139	288	342	100
Aroclor-1254 (PCB-1254)	µg/kg	690	263	324	52.4	113	231	284	46.6
Aroclor-1260 (PCB-1260)	µg/kg	2000	254	160	30 U	91.5	184	216	33 U

TABLE 2B

ANALYTICAL RESULTS SUMMARY - TISSUE
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	SAN-WS-16	SBR-CC-7	SBR-CC-8	SBR-CFSH-7	SR-BB-1	SR-BB-2	SR-BB-3	SR-BB-4
	Sample Name:	TA-061108-SM-036	TA-061108-SM-016	TA-061108-SM-017	TA-061108-SM-008	TA-060908-SM-037	TA-060908-SM-038	TA-060908-SM-039	TA-060908-SM-040
	Sample Date:	6/11/2008	6/11/2008	6/11/2008	6/11/2008	6/9/2008	6/9/2008	6/9/2008	6/9/2008
	Sample Type:	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)	(orig)
Parameters	***Units***								
Metals									
Antimony	mg/kg	0.63 U	0.67 U	0.67 U	0.67 U	0.61 U	0.45 U	0.58 U	0.57 U
Arsenic	mg/kg	0.63 U	0.67 U	0.67 U	0.67 U	0.61 U	0.45 U	0.58 U	0.57 U
Barium	mg/kg	6.3 U	6.7 U	6.7 U	6.7 U	6.1 U	4.5 U	5.8 U	5.7 U
Beryllium	mg/kg	0.16 U	0.17 U	0.17 U	0.17 U	0.15 U	0.11 U	0.14 U	0.14 U
Cadmium	mg/kg	0.16 U	0.17 U	0.17 U	0.17 U	0.15 U	0.11 U	0.14 U	0.14 U
Chromium Total	mg/kg	0.31	0.33 U	0.33 U	0.44	0.30 U	0.23 U	0.29 U	0.28 U
Cobalt	mg/kg	1.6 U	1.7 U	1.7 U	1.7 U	1.5 U	1.1 U	1.4 U	1.4 U
Copper	mg/kg	1.6	3.4	3.0	27.2	0.87	0.56	0.72 U	0.71 U
Lead	mg/kg	0.63 U	0.67 U	0.67 U	0.67 U	0.61 U	0.45 U	0.58 U	0.57 U
Manganese	mg/kg	6.2	1.7	2.0	14.2	1.2	0.54	0.43 U	0.43 U
Mercury	mg/kg	0.047	0.12	0.19	0.048	0.19	0.41	0.44	0.45
Methyl mercury	µg/g	0.0743	0.135	0.163	0.0534	0.190	0.402	0.418	0.425
Nickel	mg/kg	1.3 U	1.3 U	1.3 U	1.3 U	1.2 U	0.90 U	1.2 U	1.1 U
Selenium	mg/kg	0.63 U	0.67 U	0.67 U	0.67 U	0.61 U	0.45 U	0.58 U	0.57 U
Silver	mg/kg	0.31 U	0.33 U	0.33 U	0.33 U	0.30 U	0.23 U	0.29 U	0.28 U
Thallium	mg/kg	0.31 U	0.33 U	0.33 U	0.33 U	0.30 U	0.23 U	0.29 U	0.28 U
Vanadium	mg/kg	1.6 U	1.7 U	1.7 U	1.7 U	1.5 U	1.1 U	1.4 U	1.4 U
Zinc	mg/kg	21.4 J	32.3	29.6	16.8	9.4	6.5	9.7	5.4
General Chemistry									
Cyanide (total)	mg/kg	0.22 UJ	0.21 U	0.21 U	0.22 U	0.20 U	0.24 U	0.24 U	0.22 U
Lipids	%	2.5 J	0.76	2.6	1.2	0.10 U	0.38	0.22	0.43
Percent Moisture	%	81.0	76.5	78.7	80.1	82.0	84.1	82.0	82.2

TABLE 2B

ANALYTICAL RESULTS SUMMARY - TISSUE
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Location Name:		*SR-BB-5*	*SR-BB-6*	*SR-BB-6*	*SR-CC-1*	*SR-CC-2*	*SR-CC-3*	*SR-CFSH-1*	*SR-CFSH-2*
Sample Name:		*TA-061308-SM-041*	*TA-061308-SM-042*	*TA-061308-SM-043*	*TA-061308-SM-009*	*TA-061308-SM-010*	*TA-061308-SM-011*	*TA-060908-SM-001*	*TA-060908-SM-002*
Sample Date:		*6/13/2008*	*6/13/2008*	*6/13/2008*	*6/13/2008*	*6/13/2008*	*6/13/2008*	*6/9/2008*	*6/9/2008*
Sample Type:		*(orig)*	*(orig)*	*(Duplicate)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*
Parameters	***Units***								
Semi-Volatile Organic Compounds									
2,4-Dimethylphenol	µg/kg	330 UJ	320 UJ	980 UJ	340 U	320 U	340 U	330 U	330 U
2-Methylnaphthalene	µg/kg	130 U	130 U	390 U	130 U	130 U	140 U	130 U	130 U
2-Methylphenol	µg/kg	130 UJ	130 UJ	390 UJ	130 U	125 J	176	130 U	130 U
3&4-Methylphenol	µg/kg	130 UJ	130 UJ	390 UJ	130 U	130 U	140 U	130 U	130 U
Acenaphthene	µg/kg	130 UJ	130 UJ	390 UJ	130 U	130 U	140 U	130 U	130 U
Acenaphthylene	µg/kg	130 UJ	130 UJ	390 UJ	130 U	130 U	140 U	130 U	130 U
Anthracene	µg/kg	130 U	130 U	390 U	130 U	130 U	140 U	130 U	130 U
Benzo(a)anthracene	µg/kg	130 U	130 U	390 U	130 U	130 U	140 U	130 U	130 U
Benzo(a)pyrene	µg/kg	130 U	130 U	390 U	130 U	130 U	140 U	33.4 J	130 U
Benzo(b)fluoranthene	µg/kg	130 U	130 U	390 U	130 U	130 U	140 U	130 U	130 U
Benzo(g,h,i)perylene	µg/kg	130 U	130 U	390 U	130 U	130 U	140 U	130 U	130 U
Benzo(k)fluoranthene	µg/kg	130 U	130 U	390 U	130 U	130 U	140 U	33.3 U	130 U
bis(2-Ethylhexyl)phthalate	µg/kg	334 U	371 U	1040 U	499	422	643	631	373
Butyl benzylphthalate	µg/kg	130 U	130 U	390 U	130 U	130 U	140 U	130 U	130 U
Carbazole	µg/kg	130 U	130 U	390 U	130 U	130 U	140 U	67.4 J	130 U
Chrysene	µg/kg	130 U	130 U	390 U	130 U	130 U	140 U	40.2 J	130 U
Dibenz(a,h)anthracene	µg/kg	130 U	130 U	390 U	130 U	130 U	140 U	130 U	130 U
Dibenzofuran	µg/kg	130 U	130 U	390 U	130 U	130 U	140 U	130 U	130 U
Di-n-octyl phthalate	µg/kg	130 U	130 U	390 U	130 U	130 U	140 U	130 U	130 U
Fluoranthene	µg/kg	130 U	130 U	390 U	130 U	130 U	140 U	77.3 J	72.2 J
Fluorene	µg/kg	130 UJ	130 UJ	390 UJ	130 U	130 U	140 U	32.6 J	130 U
Indeno(1,2,3-cd)pyrene	µg/kg	130 U	130 U	390 U	130 U	130 U	140 U	130 U	130 U
Naphthalene	µg/kg	130 UJ	130 UJ	390 UJ	130 UJ	130 UJ	140 UJ	130 UJ	130 UJ
Phenanthrene	µg/kg	130 UJ	130 UJ	390 UJ	130 U	130 U	140 U	99.3 J	77.7 J
Phenol	µg/kg	130 U	130 UJ	19400 J	130 U	62.1 J	140 U	130 U	130 U
Pyrene	µg/kg	130 U	130 U	390 U	130 U	130 U	140 U	72.6 J	61.9 J
PCBs									
Aroclor-1016 (PCB-1016)	µg/kg	33 U	32 U	98 U	36 U	32 U	34 U	33 U	32 U
Aroclor-1221 (PCB-1221)	µg/kg	33 U	32 U	98 U	36 U	32 U	34 U	33 U	32 U
Aroclor-1232 (PCB-1232)	µg/kg	33 U	32 U	98 U	36 U	32 U	34 U	33 U	32 U
Aroclor-1242 (PCB-1242)	µg/kg	33 U	32 U	98 U	36 U	32 U	34 U	33 U	32 U
Aroclor-1248 (PCB-1248)	µg/kg	458	192	244	695	965	1330	33 U	32 U
Aroclor-1254 (PCB-1254)	µg/kg	215	123	152	545	487	859	141	124
Aroclor-1260 (PCB-1260)	µg/kg	134	88.5	98 U	307	210	364	66.8	53.5

TABLE 2B

ANALYTICAL RESULTS SUMMARY - TISSUE
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	SR-BB-5	SR-BB-6	SR-BB-6	SR-CC-1	SR-CC-2	SR-CC-3	SR-CFSH-1	SR-CFSH-2
	Sample Name:	TA-061308-SM-041	TA-061308-SM-042	TA-061308-SM-043	TA-061308-SM-009	TA-061308-SM-010	TA-061308-SM-011	TA-060908-SM-001	TA-060908-SM-002
	Sample Date:	6/13/2008	6/13/2008	6/13/2008	6/13/2008	6/13/2008	6/13/2008	6/9/2008	6/9/2008
	Sample Type:	(orig)	(orig)	(Duplicate)	(orig)	(orig)	(orig)	(orig)	(orig)
Parameters	***Units***								
Metals									
Antimony	mg/kg	0.65 U	0.41 U	0.63 U	0.66 U	0.67 U	0.67 U	0.66 U	0.66 U
Arsenic	mg/kg	0.65 U	0.41 U	0.63 U	0.66 U	0.67 U	0.67 U	1.3 U	0.66 U
Barium	mg/kg	6.5 U	4.1 U	6.3 U	6.6 U	6.7 U	6.7 U	16.4	9.0
Beryllium	mg/kg	0.16 U	0.10 U	0.16 U	0.16 U	0.17 U	0.17 U	0.16 U	0.17 U
Cadmium	mg/kg	0.16 U	0.10 U	0.16 U	0.16 U	0.17 U	0.17 U	0.33 U	0.17 U
Chromium Total	mg/kg	0.33 U	0.21	0.31 U	0.33 U	0.33 U	0.33 U	0.43	0.33 U
Cobalt	mg/kg	1.6 U	1.0 U	1.6 U	1.6 U	1.7 U	1.7 U	1.6 U	1.7 U
Copper	mg/kg	0.81 U	0.51	0.78 U	1.7	3.7	2.5	21.8	25.9
Lead	mg/kg	0.65 U	0.41 U	0.63 U	0.66 U	0.67 U	0.67 U	1.3 U	1.1
Manganese	mg/kg	0.51 J	1.8 J	0.47 UJ	1.8	1.6	1.4	70.4	58.0
Mercury	mg/kg	0.13	0.32	0.26	0.11	0.054	0.062	0.029 U	0.032 U
Methyl mercury	µg/g	0.167	0.333	0.321	0.0938	0.0531	0.0659	0.0183	0.0183 J
Nickel	mg/kg	1.3 U	0.81 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Selenium	mg/kg	0.65 U	0.41 U	0.63 U	0.66 U	0.67 U	0.67 U	1.3 U	0.66 U
Silver	mg/kg	0.33 U	0.20 U	0.31 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Thallium	mg/kg	0.33 U	0.20 U	0.31 U	0.33 U	0.33 U	0.33 U	0.66 U	0.33 U
Vanadium	mg/kg	1.6 U	1.0 U	1.6 U	1.6 U	1.7 U	1.7 U	1.6 U	1.7 U
Zinc	mg/kg	8.7 J	9.6	6.8	30.2	25.1	30.7	17.5	16.3
General Chemistry									
Cyanide (total)	mg/kg	0.21 U	0.24 U	0.20 U	0.20 U	0.22 U	0.22 U	0.24 U	0.21 U
Lipids	%	0.10 U	0.10 U	0.10 U	0.69	0.93	2.1	0.44	0.46
Percent Moisture	%	81.8	83.2	81.1	77.0	77.6	76.2	84.1	82.2

TABLE 2B

ANALYTICAL RESULTS SUMMARY - TISSUE
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Location Name:		*SR-CFSH-2*	*SR-WS-1*	*SR-WS-2*	*SR-WS-3*	*SR-WS-4*	*SR-WS-5*
Sample Name:		*TA-060908-SM-003*	*TA-060908-SM-020*	*TA-060908-SM-021*	*TA-061308-SM-022*	*TA-061308-SM-023*	*TA-061308-SM-024*
Sample Date:		*6/9/2008*	*6/9/2008*	*6/9/2008*	*6/13/2008*	*6/13/2008*	*6/13/2008*
Sample Type:		*(Duplicate)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*
Parameters	***Units***						
Semi-Volatile Organic Compounds							
2,4-Dimethylphenol	µg/kg	500 U	330 U	330 UJ	330 U	320 U	330 U
2-Methylnaphthalene	µg/kg	200 U	130 U	130 UJ	130 U	130 U	130 U
2-Methylphenol	µg/kg	200 U	90.6 J	147 J	130 U	130 U	135
3&4-Methylphenol	µg/kg	200 U	270	130 UJ	130 U	130 U	130 U
Acenaphthene	µg/kg	200 U	54.7 J	92.6 J	130 U	130 U	130 U
Acenaphthylene	µg/kg	200 U	130 U	130 UJ	130 U	130 U	130 U
Anthracene	µg/kg	200 U	130 U	130 UJ	130 U	130 U	130 U
Benzo(a)anthracene	µg/kg	200 U	130 U	130 UJ	130 U	130 U	130 U
Benzo(a)pyrene	µg/kg	200 U	130 U	130 UJ	130 U	130 U	130 U
Benzo(b)fluoranthene	µg/kg	200 U	130 U	130 UJ	130 U	130 U	130 U
Benzo(g,h,i)perylene	µg/kg	200 U	130 U	130 UJ	130 U	130 U	130 U
Benzo(k)fluoranthene	µg/kg	200 U	130 U	130 UJ	130 U	130 U	130 U
bis(2-Ethylhexyl)phthalate	µg/kg	769	706	557 J	232	649	446 U
Butyl benzylphthalate	µg/kg	200 U	130 U	130 UJ	130 U	130 U	130 U
Carbazole	µg/kg	73.0 J	130 U	130 UJ	130 U	130 U	130 U
Chrysene	µg/kg	200 U	130 U	130 UJ	130 U	130 U	130 U
Dibenz(a,h)anthracene	µg/kg	200 U	130 U	130 UJ	130 U	130 U	130 U
Dibenzofuran	µg/kg	200 U	44.7 J	77.2 J	130 U	130 U	130 U
Di-n-octyl phthalate	µg/kg	200 U	130 U	130 UJ	130 U	130 U	130 U
Fluoranthene	µg/kg	66.1 J	130 U	110 J	130 U	130 U	130 U
Fluorene	µg/kg	200 U	55.3 J	99.7 J	130 U	130 U	130 U
Indeno(1,2,3-cd)pyrene	µg/kg	200 U	130 U	130 UJ	130 U	130 U	130 U
Naphthalene	µg/kg	200 UJ	130 U	32.1 J	130 U	130 U	130 U
Phenanthrene	µg/kg	82.5 J	103 J	208 J	130 U	130 U	130 U
Phenol	µg/kg	200 U	130 U	130 UJ	130 U	130 U	130 U
Pyrene	µg/kg	53.2 J	130 U	44.3 J	130 U	130 U	130 U
PCBs							
Aroclor-1016 (PCB-1016)	µg/kg	50 U	33 U	33 U	33 U	32 U	33 U
Aroclor-1221 (PCB-1221)	µg/kg	50 U	33 U	33 U	33 U	32 U	33 U
Aroclor-1232 (PCB-1232)	µg/kg	50 U	33 U	33 U	33 U	32 U	33 U
Aroclor-1242 (PCB-1242)	µg/kg	50 U	33 U	33 U	33 U	32 U	119
Aroclor-1248 (PCB-1248)	µg/kg	50 U	872	1200	388	515	33 U
Aroclor-1254 (PCB-1254)	µg/kg	124	544	638	132	657	235
Aroclor-1260 (PCB-1260)	µg/kg	59.1	329	322	125	473	240

TABLE 2B

ANALYTICAL RESULTS SUMMARY - TISSUE
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

	Location Name:	*SR-CFSH-2*	*SR-WS-1*	*SR-WS-2*	*SR-WS-3*	*SR-WS-4*	*SR-WS-5*
	Sample Name:	*TA-060908-SM-003*	*TA-060908-SM-020*	*TA-060908-SM-021*	*TA-061308-SM-022*	*TA-061308-SM-023*	*TA-061308-SM-024*
	Sample Date:	*6/9/2008*	*6/9/2008*	*6/9/2008*	*6/13/2008*	*6/13/2008*	*6/13/2008*
	Sample Type:	*(Duplicate)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*	*(orig)*
Parameters	***Units***						
Metals							
Antimony	mg/kg	0.66 U	0.63 U	0.65 U	0.65 U	0.63 U	0.66 U
Arsenic	mg/kg	0.66 U	0.63 U	0.65 U	0.65 U	0.63 U	0.66 U
Barium	mg/kg	10.8	6.3 U	6.5 U	6.5 U	6.3 U	6.6 U
Beryllium	mg/kg	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.17 U
Cadmium	mg/kg	0.30	0.16 U	0.16 U	0.16 U	0.16 U	0.17 U
Chromium Total	mg/kg	0.35	0.36	0.44	0.32	0.31 U	0.57
Cobalt	mg/kg	1.7 U	1.6 U	1.6 U	1.6 U	1.6 U	1.7 U
Copper	mg/kg	36.8	3.5	1.4	1.0	1.4	3.4
Lead	mg/kg	1.1	0.63 U	0.65 U	0.65 U	0.63 U	0.66 U
Manganese	mg/kg	73.2	7.1	4.7	1.8	3.0	4.4
Mercury	mg/kg	0.029 U	0.056	0.053	0.061	0.10	0.061
Methyl mercury	µg/g	0.00156 J	0.0591	0.0531	0.0692	0.0802	0.0532
Nickel	mg/kg	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Selenium	mg/kg	0.66 U	0.63 U	0.65 U	0.65 U	0.63 U	0.66 U
Silver	mg/kg	0.33 U	0.31 U	0.33 U	0.32 U	0.31 U	0.33 U
Thallium	mg/kg	0.40 U	0.31 U	0.33 U	0.32 U	0.31 U	0.33 U
Vanadium	mg/kg	1.7 U	1.6 U	1.6 U	1.6 U	1.6 U	1.7 U
Zinc	mg/kg	24.8	18.4	23.1	11.2	15.4	19.6
General Chemistry							
Cyanide (total)	mg/kg	0.22 U	0.24 U	0.24 U	0.24 U	0.21 U	0.21 U
Lipids	%	0.65	1.9	2.9	2.1	0.23	0.44
Percent Moisture	%	82.3	76.2	71.7	78.9	80.2	77.0

Notes:

-	Not applicable.
J	Estimated.
PCBs	Polychlorinated Biphenyls.
U	Not detected.
UJ	Not detected, estimated reporting limi

TABLE 3

SUMMARY OF ANALYTICAL METHODOLOGIES
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Matrix*	*Method* [1]
Polychlorinated Biphenyls	Tissue and Sediment	NYSDEC ASP 8082 [1]
Semi-volatiles	Tissue and Sediment	NYSDEC ASP 8270C [1]
Metals	Tissue and Sediment	NYSDEC ASP 6010B [1]
Mercury	Tissue and Sediment	NYSDEC ASP 7471A [1]
Cyanide	Tissue and Sediment	NYSDEC ASP 9012 [1]
Total Organic Carbon (TOC)	Sediment	Lloyd Kahn [2]
Methyl Mercury	Tissue and Sediment	EPA 1630 (mod.) [3]
AVS/SEM Metals	Sediment	EPA 821-R-91-100 [4]
Whole Body Homogenization	Tissue	USGS SOP HC521A [5]
Percent Lipids	Tissue	NYSDEC ASP 3540C [1]
Percent Moisture	Tissue and Sediment	EPA 160.3 [6]

Notes:

[1] NYSDEC Analytical Services Protocol, October 1995 Rev. and "Test Methods for Solid Waste Physical/Chemical Methods", SW-846, 3rd Edition, September 1986 (with subsequent revisions).

[2] "Determination of Total Organic Carbon in Sediment (Lloyd Kahn Method)", USEPA Region II, July 27, 1988.

[3] "Methyl Mercury in Water by Distillation, Aqueous Ethylation, Purge and Trap and Cold Vapor Atomic Fluorescence Spectrometry", USEPA Office of Water, August 1998 (modified).

[4] "Determination of Acid Volatile Sulfide and Selected Simultaneously Extractable Metals in Sediment", EPA-821-R-91-100, December 1991.

[5] "Extraction and Lipid Separation of Fish Samples for Contaminant Analysis and Lipid Determination", US Geological Survey Standard Operating Procedure HC521A, Jan.12, 1995, Rev. 1.

[6] Referenced from "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983.

ASP Analytical Services Protocol.
NYSDEC New York State Department of Environmental Conservation.
USGS United States Geological Survey.
AVS Acid volatile sulfide.
SEM Simultaneously extracted metals - cadmium, copper, lead, mercury, nickel and zinc.

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO HOLDING TIME EXCEEDANCES
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Sample ID*	*Holding Time (days)*	*Holding Time Criteria (days)*	*Analyte*	*Qualified Sample Results*	*Units*
PCBs	SE-061908-RC-007	16 days from VTSR	5 days from VTSR	Aroclor-1248	2710 J	µg/Kg
				Aroclor-1016	56 UJ	µg/Kg
				Aroclor-1260	312 J	µg/Kg
				Aroclor-1232	56 UJ	µg/Kg
				Aroclor-1254	806 J	µg/Kg
				Aroclor-1221	56 UJ	µg/Kg
				Aroclor-1242	56 UJ	µg/Kg
PCBs	SE-061908-RC-010	17 days from VTSR	5 days from VTSR	Aroclor-1248	152 J	µg/Kg
				Aroclor-1016	45 UJ	µg/Kg
				Aroclor-1260	56.8 J	µg/Kg
				Aroclor-1232	45 UJ	µg/Kg
				Aroclor-1254	85.9 J	µg/Kg
				Aroclor-1221	45 UJ	µg/Kg
				Aroclor-1242	45 UJ	µg/Kg
PCBs	SE-061908-RC-013	17 days from VTSR	5 days from VTSR	Aroclor-1254	345 J	µg/Kg
				Aroclor-1221	52 UJ	µg/Kg
				Aroclor-1232	52 UJ	µg/Kg
				Aroclor-1260	205 J	µg/Kg
				Aroclor-1248	765 J	µg/Kg
				Aroclor-1016	52 UJ	µg/Kg
				Aroclor-1242	52 UJ	µg/Kg
PCBs	SE-062408-RC-026	16 days from VTSR	5 days from VTSR	Aroclor-1254	66.5 J	µg/Kg
				Aroclor-1221	45 UJ	µg/Kg
				Aroclor-1232	45 UJ	µg/Kg
				Aroclor-1260	45 UJ	µg/Kg
				Aroclor-1248	45 UJ	µg/Kg
				Aroclor-1016	45 UJ	µg/Kg
				Aroclor-1242	45 UJ	µg/Kg
PCBs	SE-062408-RC-037	16 days from VTSR	5 days from VTSR	Aroclor-1254	38 UJ	µg/Kg
				Aroclor-1221	38 UJ	µg/Kg
				Aroclor-1232	38 UJ	µg/Kg
				Aroclor-1260	38 UJ	µg/Kg

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO HOLDING TIME EXCEEDANCES
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Sample ID*	*Holding Time (days)*	*Holding Time Criteria (days)*	*Analyte*	*Qualified Sample Results*	*Units*
PCBs	SE-062408-RC-037	16 days from VTSR	5 days from VTSR	Aroclor-1248	38 UJ	µg/Kg
				Aroclor-1016	38 UJ	µg/Kg
				Aroclor-1242	38 UJ	µg/Kg
PCBs	SE-062408-RC-030	19 days from VTSR	5 days from VTSR	Aroclor-1254	44 UJ	µg/Kg
				Aroclor-1221	44 UJ	µg/Kg
				Aroclor-1232	44 UJ	µg/Kg
				Aroclor-1260	44 UJ	µg/Kg
				Aroclor-1248	44 UJ	µg/Kg
				Aroclor-1016	44 UJ	µg/Kg
				Aroclor-1242	44 UJ	µg/Kg
PCBs	TA-061008-SM-044	6 days from VTSR	5 days from VTSR	Aroclor-1248 (PCB-1248)	949 J	µg/Kg
				Aroclor-1016 (PCB-1016)	50 UJ	µg/Kg
				Aroclor-1260 (PCB-1260)	312 J	µg/Kg
				Aroclor-1254 (PCB-1254)	528 J	µg/Kg
				Aroclor-1232 (PCB-1232)	50 UJ	µg/Kg
				Aroclor-1221 (PCB-1221)	50 UJ	µg/Kg
				Aroclor-1242 (PCB-1242)	50 UJ	µg/Kg
	TA-061008-SM-045	6 days from VTSR	5 days from VTSR	Aroclor-1242 (PCB-1242)	49 UJ	µg/Kg
				Aroclor-1221 (PCB-1221)	49 UJ	µg/Kg
				Aroclor-1232 (PCB-1232)	49 UJ	µg/Kg
				Aroclor-1254 (PCB-1254)	194 J	µg/Kg
				Aroclor-1260 (PCB-1260)	121 J	µg/Kg
				Aroclor-1016 (PCB-1016)	49 UJ	µg/Kg
				Aroclor-1248 (PCB-1248)	379 J	µg/Kg
	TA-061108-SM-035	6 days from VTSR	5 days from VTSR	Aroclor-1248 (PCB-1248)	50 UJ	µg/Kg
				Aroclor-1016 (PCB-1016)	50 UJ	µg/Kg
				Aroclor-1254 (PCB-1254)	263 J	µg/Kg
				Aroclor-1260 (PCB-1260)	409 J	µg/Kg
				Aroclor-1221 (PCB-1221)	50 UJ	µg/Kg
				Aroclor-1232 (PCB-1232)	50 UJ	µg/Kg
				Aroclor-1242 (PCB-1242)	50 UJ	µg/Kg

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO HOLDING TIME EXCEEDANCES
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Sample ID*	*Holding Time (days)*	*Holding Time Criteria (days)*	*Analyte*	*Qualified Sample Results*	*Units*
PCBs	SE-062408-RC-028	9 days from VTSR	5 days from VTSR	Aroclor-1242 (PCB-1242)	56 UJ	µg/Kg
				Aroclor-1016 (PCB-1016)	56 UJ	µg/Kg
				Aroclor-1248 (PCB-1248)	96.8 J	µg/Kg
				Aroclor-1260 (PCB-1260)	56 UJ	µg/Kg
				Aroclor-1232 (PCB-1232)	56 UJ	µg/Kg
				Aroclor-1254 (PCB-1254)	56 UJ	µg/Kg
				Aroclor-1221 (PCB-1221)	56 UJ	µg/Kg
Semi-volatiles	TA-061008-SM-044	6 days from VTSR	5 days from VTSR	All semi-volatile compounds	J	µg/Kg
Semi-volatiles	TA-061008-SM-045	6 days from VTSR	5 days from VTSR	All semi-volatile compounds	J	µg/Kg
Semi-volatiles	TA-061108-SM-035	6 days from VTSR	5 days from VTSR	All semi-volatile compounds	J	µg/Kg
Semi-volatiles	SE-061908-RC-010	25 days from VTSR	5 days from VTSR	All semi-volatile compounds	J	µg/Kg
Acid Volatile Sulfide	SE-062308-RC-015	19	14	Acid Volatile Sulfide	1.5 J	µmol/g
	SE-062308-RC-016	19	14	Acid Volatile Sulfide	1.9 J	µmol/g
	SE-062308-RC-017	19	14	Acid Volatile Sulfide	1.5 J	µmol/g
	SE-062308-RC-018	19	14	Acid Volatile Sulfide	0.71 UJ	µmol/g
	SE-062308-RC-019	19	14	Acid Volatile Sulfide	0.88 J	µmol/g
	SE-062308-RC-020	19	14	Acid Volatile Sulfide	2.7 J	µmol/g
	SE-062308-RC-021	19	14	Acid Volatile Sulfide	1.2 J	µmol/g
	SE-062308-RC-022	19	14	Acid Volatile Sulfide	1.5 J	µmol/g
	SE-062308-RC-023	19	14	Acid Volatile Sulfide	0.96 J	µmol/g
	SE-062408-RC-024	18	14	Acid Volatile Sulfide	1.2 J	µmol/g
	SE-062408-RC-025	18	14	Acid Volatile Sulfide	1.2 J	µmol/g
	SE-062408-RC-026	18	14	Acid Volatile Sulfide	0.87 J	µmol/g
	SE-062408-RC-027	18	14	Acid Volatile Sulfide	1.0 J	µmol/g
	SE-062408-RC-028	18	14	Acid Volatile Sulfide	0.60 J	µmol/g
	SE-062408-RC-029	18	14	Acid Volatile Sulfide	1.1 J	µmol/g
	SE-062408-RC-030	18	14	Acid Volatile Sulfide	0.067 UJ	µmol/g
	SE-062508-RC-031	17	14	Acid Volatile Sulfide	2.4 J	µmol/g
	SE-062508-RC-032	17	14	Acid Volatile Sulfide	0.15 J	µmol/g
	SE-062508-RC-033	17	14	Acid Volatile Sulfide	0.066 UJ	µmol/g
	SE-062508-RC-034	17	14	Acid Volatile Sulfide	0.066 UJ	µmol/g

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO HOLDING TIME EXCEEDANCES
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Sample ID*	*Holding Time (days)*	*Holding Time Criteria (days)*	*Analyte*	*Qualified Sample Results*	*Units*
Acid Volatile Sulfide	SE-062508-RC-035	17	14	Acid Volatile Sulfide	0.068 UJ	µmol/g
	SE-062508-RC-036	17	14	Acid Volatile Sulfide	1.7 J	µmol/g
	SE-062508-RC-037	17	14	Acid Volatile Sulfide	1.3 J	µmol/g
	SE-062508-RC-038	17	14	Acid Volatile Sulfide	1.8 J	µmol/g
	SE-062508-RC-039	17	14	Acid Volatile Sulfide	2.1 J	µmol/g
	EB-062608-RC-045	16	14	Acid Volatile Sulfide	0.65 UJ	µmol/g
	SE-062608-RC-040	16	14	Acid Volatile Sulfide	1.9 J	µmol/g
	SE-062608-RC-041	16	14	Acid Volatile Sulfide	0.64 UJ	µmol/g
	SE-062608-RC-042	16	14	Acid Volatile Sulfide	0.67 UJ	µmol/g
	SE-062608-RC-043	16	14	Acid Volatile Sulfide	1.7 J	µmol/g
	SE-062608-RC-044	16	14	Acid Volatile Sulfide	1.4 J	µmol/g

Notes:

J	Estimated.
PCBs	Polychlorinated biphenyls.
UJ	Non-detect at the associated estimated value.
VTSR	Verified time of sample receipt.

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
SVOCs	6/24/08	bis(2-Ethylhexyl)phthalate	187	SE-061808-RC-001	738 U	µg/Kg
				SE-061808-RC-002	1750 U	µg/Kg
				SE-061808-RC-003	494 U	µg/Kg
				SE-061808-RC-004	422 U	µg/Kg
				SE-061808-RC-005	730 U	µg/Kg
				SE-061808-RC-006	1050 U	µg/Kg
				SE-061908-RC-007	1690 U	µg/Kg
SVOCs	6/27/08	bis(2-Ethylhexyl)phthalate	86	SE-061908-RC-008	693 U	µg/Kg
				SE-061908-RC-009	788 U	µg/Kg
				SE-061908-RC-012	574 U	µg/Kg
SVOCs	6/29/08	bis(2-Ethylhexyl)phthalate	152	TA-061008-SM-025	1090 U	µg/Kg
				TA-061108-SM-030	517 U	µg/Kg
				TA-061108-SM-031	857 U	µg/Kg
				TA-061108-SM-032	335 U	µg/Kg
				TA-061108-SM-033	795 U	µg/Kg
				TA-061108-SM-034	620 U	µg/Kg
				TA-061208-SM-026	785 U	µg/Kg
				TA-061208-SM-028	306 U	µg/Kg
				TA-061208-SM-029	408 U	µg/Kg
				TA-061308-SM-024	446 U	µg/Kg
SVOCs	6/30/08	bis(2-Ethylhexyl)phthalate	106	TA-060908-SM-037	314 U	µg/Kg
				TA-060908-SM-038	442 U	µg/Kg
				TA-060908-SM-039	355 U	µg/Kg
				TA-060908-SM-040	373 U	µg/Kg
				TA-061308-SM-041	334 U	µg/Kg
				TA-061308-SM-042	371 U	µg/Kg
				TA-061308-SM-043	1040 U	µg/Kg
SVOCs	7/1/08	bis(2-Ethylhexyl)phthalate	141	TA-061008-SM-044	262 U	µg/Kg

Notes:
SVOCs Semi-volatile organic compounds.
U Non-detect at the associated value.

TABLE 6

QUALIFIED SAMPLE DATA DUE TO OUTLYING SURROGATE RECOVERIES
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Surrogate*	*Surrogate Recovery (percent)*	*Control Limits (percent)*	*Sample ID*	*Analytes*	*Qualified Sample Results*	*Units*
PCBs	DCB	177	40 - 151	SE-061808-RC-003	Aroclor 1248	377 J	µg/Kg
					Aroclor 1254	281 J	µg/Kg
					Aroclor 1260	311 J	µg/Kg
PCBs	TCMX	157	37 - 140	SE-061908-RC-008	Aroclor 1242	9190 J	µg/Kg
	DCB	168	40 - 151		Aroclor 1254	1670 J	µg/Kg
					Aroclor 1260	548 J	µg/Kg
PCBs	DCB	154	40 - 151	SE-061908-RC-009	Aroclor 1248	671 J	µg/Kg
					Aroclor 1254	335 J	µg/Kg
					Aroclor 1260	1540 J	µg/Kg
PCBs	DCB	175	40 - 151	SE-061908-RC-011	Aroclor 1248	22500 J	µg/Kg
					Aroclor 1254	6620 J	µg/Kg
					Aroclor 1260	1470 J	µg/Kg
PCBs	TCMX	153	37 - 140	TA-061008-SM-005	Aroclor 1248	436 J	µg/Kg
	DCB	152	40 - 151		Aroclor 1260	109 J	µg/Kg
					Aroclor 1254	434 J	µg/Kg
PCBs	TCMX	152	37 - 140	TA-061208-SM-027	Aroclor 1248	114 J	µg/Kg
	DCB	167	40 - 151		Aroclor 1254	83.1 J	µg/Kg
PCBs	TCMX	150	37 - 140	TA-061108-SM-030	Aroclor 1242	813 J	µg/Kg
	DCB	155	40 - 151		Aroclor 1254	418 J	µg/Kg
					Aroclor 1260	245 J	µg/Kg
PCBs	TCMX	158	37 - 140	TA-061108-SM-032	Aroclor 1260	90.2 J	µg/Kg
	DCB	169	40 - 151		Aroclor 1254	145 J	µg/Kg
					Aroclor 1248	146 J	µg/Kg
PCBs	TCMX	141	37 - 140	TA-061108-SM-035	Aroclor 1254	263 J	µg/Kg
					Aroclor 1260	409 J	µg/Kg

TABLE 6

QUALIFIED SAMPLE DATA DUE TO OUTLYING SURROGATE RECOVERIES
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Surrogate*	*Surrogate Recovery (percent)*	*Control Limits (percent)*	*Sample ID*	*Analytes*	*Qualified Sample Results*	*Units*
Semi-volatiles	2-Fluorobiphenyl	34	44-111	SE-062508-RC-036	Fluorene	150 UJ	µg/Kg
	Terphenyl-d14	41	37-131		Butyl benzylphthalate	150 UJ	µg/Kg
					Acenaphthene	150 UJ	µg/Kg
					Phenanthrene	150 J	µg/Kg
					bis(2-Ethylhexyl)phthalate	97.4 J	µg/Kg
					Di-n-octyl phthalate	150 UJ	µg/Kg
					Anthracene	150 UJ	µg/Kg
					Pyrene	268 J	µg/Kg
					Dibenzofuran	150 UJ	µg/Kg
					Benzo(a)anthracene	124 J	µg/Kg
					Benzo(a)pyrene	109 J	µg/Kg
					Dibenz(a,h)anthracene	22.9 J	µg/Kg
					Chrysene	160 J	µg/Kg
					Benzo(b)fluoranthene	117 J	µg/Kg
					Benzo(g,h,i)perylene	84.1 J	µg/Kg
					Indeno(1,2,3-cd)pyrene	73.9 J	µg/Kg
					Acenaphthylene	150 UJ	µg/Kg
					Benzo(k)fluoranthene	112 J	µg/Kg
					Fluoranthene	323 J	µg/Kg
					Carbazole	150 UJ	µg/Kg
					2-Methylnaphthalene	150 UJ	µg/Kg
					Naphthalene	150 UJ	µg/Kg
Semi-volatiles	2-Fluorobiphenyl	36	44-111	SE-062308-RC-021	Pyrene	7620 J	µg/Kg
	Terphenyl-d14	32	37-131		Butyl benzylphthalate	160 UJ	µg/Kg
					Phenanthrene	7360 J	µg/Kg
					Naphthalene	813 J	µg/Kg
					Indeno(1,2,3-cd)pyrene	2700 J	µg/Kg
					Fluorene	945 J	µg/Kg
					Fluoranthene	9700 J	µg/Kg
					Dibenzofuran	729 J	µg/Kg
					Di-n-octyl phthalate	160 UJ	µg/Kg
					Dibenz(a,h)anthracene	944 J	µg/Kg
					Chrysene	4820 J	µg/Kg
					Carbazole	1140 J	µg/Kg
					bis(2-Ethylhexyl)phthalate	329 J	µg/Kg

TABLE 6

QUALIFIED SAMPLE DATA DUE TO OUTLYING SURROGATE RECOVERIES
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Surrogate*	*Surrogate Recovery (percent)*	*Control Limits (percent)*	*Sample ID*	*Analytes*	*Qualified Sample Results*	*Units*
Semi-volatiles	Terphenyl-d14	32	37-131		Benzo(k)fluoranthene	3390 J	µg/Kg
					Benzo(g,h,i)perylene	2770 J	µg/Kg
					Benzo(b)fluoranthene	4050 J	µg/Kg
					Benzo(a)pyrene	4520 J	µg/Kg
					Benzo(a)anthracene	4540 J	µg/Kg
					Anthracene	1800 J	µg/Kg
					Acenaphthylene	340 J	µg/Kg
					Acenaphthene	915 J	µg/Kg
					2-Methylnaphthalene	333 J	µg/Kg

Notes:
J Estimated.
DCB Decachlorobiphenyl.
PCBs Polychlorinated biphenyls.
TCMX Tetrachloro-m-xylene.
UJ Non-detect at the associated estimated value.

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE (LCS) RESULTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*LCS Date*	*Compound*	*% Recovery*	*Acceptable Limits*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
Semi-volatiles	6/24/08	Pyrene	117	52-113	SE-061808-RC-001	4330 J	µg/kg
					SE-061808-RC-002	6540 J	µg/kg
					SE-061808-RC-003	5740 J	µg/kg
					SE-061808-RC-004	8480 J	µg/kg
					SE-061808-RC-005	3330 J	µg/kg
					SE-061808-RC-006	978 J	µg/kg
					SE-061908-RC-007	6800 J	µg/kg
Semi-volatiles	6/30/08	Phenol	43	53-104	TA-060908-SM-037	128 J	µg/kg
Semi-volatiles	6/30/08	Phenanthrene	43	53-104	TA-060908-SM-037	35.3 J	µg/kg
					TA-060908-SM-038	72.8 J	µg/kg
					TA-060908-SM-039	52.9 J	µg/kg
					TA-060908-SM-040	120 J	µg/kg
					TA-061308-SM-041	130 UJ	µg/kg
					TA-061308-SM-042	130 UJ	µg/kg
					TA-061308-SM-043	390 UJ	µg/kg
Semi-volatiles	7/1/08	Phenanthrene	40	53-104	TA-061008-SM-044	200 UJ	µg/kg
					TA-061008-SM-045	200 UJ	µg/kg
					TA-061108-SM-035	200 UJ	µg/kg
Semi-volatiles	6/26/08	Naphthalene	50	53-101	SE-061908-RC-008	1100 J	µg/kg
					SE-061908-RC-009	130 J	µg/kg
					SE-061908-RC-011	128 J	µg/kg
					SE-061908-RC-012	39.7 J	µg/kg
					SE-061908-RC-013	139 J	µg/kg
					SE-061908-RC-014	777 J	µg/kg
					TA-060908-SM-001	130 UJ	µg/kg
					TA-060908-SM-002	130 UJ	µg/kg
					TA-060908-SM-003	200 UJ	µg/kg
					TA-061008-SM-004	110 UJ	µg/kg
					TA-061008-SM-005	130 UJ	µg/kg
					TA-061108-SM-006	130 UJ	µg/kg
Semi-volatiles	6/27/08	Naphthalene	48	53-101	TA-061008-SM-012	140 UJ	µg/kg
					TA-061108-SM-007	120 UJ	µg/kg
					TA-061108-SM-008	120 UJ	µg/kg
					TA-061108-SM-014	130 UJ	µg/kg

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE (LCS) RESULTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*LCS Date*	*Compound*	*% Recovery*	*Acceptable Limits*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
Semi-volatiles	6/24/08	Carbazole	111	63-110	SE-061808-RC-001	338 J	µg/kg
					SE-061808-RC-002	410 J	µg/kg
					SE-061808-RC-003	410 J	µg/kg
					SE-061808-RC-004	297 J	µg/kg
					SE-061808-RC-005	204 J	µg/kg
					SE-061808-RC-006	62.5 J	µg/kg
					SE-061908-RC-007	766 J	µg/kg
Semi-volatiles	6/26/08	Carbazole	111	63-110	TA-060908-SM-001	67.4 J	µg/kg
					TA-060908-SM-003	73.0 J	µg/kg
Semi-volatiles	7/1/08	Benzo(a)anthracene	55	58-111	TA-061008-SM-044	200 UJ	µg/kg
					TA-061008-SM-045	200 UJ	µg/kg
					TA-061108-SM-035	200 UJ	µg/kg
Semi-volatiles	7/1/08	Anthracene	59	62-113	TA-061008-SM-044	200 UJ	µg/kg
					TA-061008-SM-045	200 UJ	µg/kg
					TA-061108-SM-035	200 UJ	µg/kg
Semi-volatiles	6/30/08	Acenaphthylene	40	54-97	TA-060908-SM-037	130 UJ	µg/kg
					TA-060908-SM-038	130 UJ	µg/kg
					TA-060908-SM-039	130 UJ	µg/kg
					TA-060908-SM-040	130 UJ	µg/kg
					TA-061308-SM-041	130 UJ	µg/kg
					TA-061308-SM-042	130 UJ	µg/kg
					TA-061308-SM-043	390 UJ	µg/kg
Semi-volatiles	7/1/08	Acenaphthylene	42	54-97	TA-061008-SM-044	200 UJ	µg/kg
					TA-061008-SM-045	200 UJ	µg/kg
					TA-061108-SM-035	200 UJ	µg/kg
Semi-volatiles	6/30/08	Acenaphthene	44	58-104	TA-060908-SM-037	130 UJ	µg/kg
					TA-060908-SM-038	130 UJ	µg/kg
					TA-060908-SM-039	130 UJ	µg/kg
					TA-060908-SM-040	130 UJ	µg/kg
					TA-061308-SM-041	130 UJ	µg/kg
					TA-061308-SM-042	130 UJ	µg/kg
					TA-061308-SM-043	390 UJ	µg/kg

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE (LCS) RESULTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*LCS Date*	*Compound*	*% Recovery*	*Acceptable Limits*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
Semi-volatiles	7/1/08	Acenaphthene	47	58-104	TA-061008-SM-044	200 UJ	µg/kg
					TA-061008-SM-045	200 UJ	µg/kg
					TA-061108-SM-035	200 UJ	µg/kg
Semi-volatiles	6/30/08	3&4-Methylphenol	44	55-105	TA-060908-SM-037	130 UJ	µg/kg
					TA-060908-SM-038	130 UJ	µg/kg
					TA-060908-SM-039	130 UJ	µg/kg
					TA-060908-SM-040	130 UJ	µg/kg
					TA-061308-SM-041	130 UJ	µg/kg
					TA-061308-SM-042	130 UJ	µg/kg
					TA-061308-SM-043	390 UJ	µg/kg
Semi-volatiles	7/1/08	3&4-Methylphenol	46	55-105	TA-061008-SM-044	200 UJ	µg/kg
					TA-061008-SM-045	200 UJ	µg/kg
					TA-061108-SM-035	200 UJ	µg/kg
Semi-volatiles	6/30/08	2-Methylphenol	45	55-104	TA-060908-SM-037	130 UJ	µg/kg
					TA-060908-SM-038	130 UJ	µg/kg
					TA-060908-SM-039	130 UJ	µg/kg
					TA-060908-SM-040	130 UJ	µg/kg
					TA-061308-SM-041	130 UJ	µg/kg
					TA-061308-SM-042	130 UJ	µg/kg
					TA-061308-SM-043	390 UJ	µg/kg
Semi-volatiles	7/1/08	2-Methylphenol	43	55-104	TA-061008-SM-044	200 UJ	µg/kg
					TA-061008-SM-045	200 UJ	µg/kg
					TA-061108-SM-035	200 UJ	µg/kg
Semi-volatiles	6/30/08	2,4-Dimethylphenol	47	57-114	TA-060908-SM-037	330 UJ	µg/kg
					TA-060908-SM-038	330 UJ	µg/kg
					TA-060908-SM-039	330 UJ	µg/kg
					TA-060908-SM-040	330 UJ	µg/kg
					TA-061308-SM-041	330 UJ	µg/kg
					TA-061308-SM-042	320 UJ	µg/kg
					TA-061308-SM-043	980 UJ	µg/kg
Semi-volatiles	7/1/08	2,4-Dimethylphenol	45	57-114	TA-061008-SM-044	500 UJ	µg/kg
					TA-061008-SM-045	490 UJ	µg/kg
					TA-061108-SM-035	500 UJ	µg/kg

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE (LCS) RESULTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*LCS Date*	*Compound*	*% Recovery*	*Acceptable Limits*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
Semi-volatiles	7/2/08	2,4-Dimethylphenol	53	57-114	SE-062308-RC-015	520 UJ	µg/kg
					SE-062308-RC-016	470 UJ	µg/kg
					SE-062308-RC-017	540 UJ	µg/kg
					SE-062308-RC-018	470 UJ	µg/kg
					SE-062308-RC-019	490 UJ	µg/kg
					SE-062308-RC-020	470 UJ	µg/kg
					SE-062308-RC-021	400 UJ	µg/kg
					SE-062308-RC-022	420 UJ	µg/kg
					SE-062308-RC-023	430 UJ	µg/kg
					SE-062408-RC-025	450 UJ	µg/kg
					SE-062408-RC-026	480 UJ	µg/kg
					SE-062408-RC-027	380 UJ	µg/kg
					SE-062408-RC-029	480 UJ	µg/kg
					SE-062408-RC-030	460 UJ	µg/kg
					SE-062508-RC-031	520 UJ	µg/kg
					SE-062508-RC-032	460 UJ	µg/kg
					SE-062508-RC-033	460 UJ	µg/kg
					SE-062508-RC-034	380 UJ	µg/kg
					SE-062508-RC-035	420 UJ	µg/kg
					SE-062508-RC-036	380 UJ	µg/kg

Notes:
J Estimated.
UJ Non-detect at the associated estimated value.

TABLE 8

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Associated Sample ID*	*Analyte*	*MS Recovery (percent)*	*MSD Recovery (percent)*	*RPD*	*Control Limits*		*Associated Sample ID*	*Qualified Sample Result*	*Units*
						Recovery (percent)	*RPD (percent)*			
Total Metals	SE-061808-RC-001	Antimony	67.6	67.4	1.3	75-125	35	SE-061808-RC-001	2.6 UJ	mg/kg
								SE-061808-RC-002	3.1 UJ	mg/kg
								SE-061808-RC-003	2.6 UJ	mg/kg
								SE-061808-RC-004	3.3 UJ	mg/kg
								SE-061808-RC-005	3.1 UJ	mg/kg
								SE-061808-RC-006	2.6 UJ	mg/kg
								SE-061908-RC-007	3.4 UJ	mg/kg
								SE-061908-RC-008	3.2 UJ	mg/kg
								SE-061908-RC-009	2.8 UJ	mg/kg
								SE-061908-RC-010	2.7 UJ	mg/kg
								SE-061908-RC-011	3.0 UJ	mg/kg
								SE-061908-RC-012	2.7 UJ	mg/kg
								SE-061908-RC-013	3.1 UJ	mg/kg
								SE-061908-RC-014	2.8 UJ	mg/kg
Total Metals	SE-062308-RC-017	Antimony	72.8	72.9	4.9	75-125	35	SE-062308-RC-015	3.0 UJ	mg/kg
								SE-062308-RC-016	3.3 UJ	mg/kg
								SE-062308-RC-017	3.6 UJ	mg/kg
								SE-062308-RC-018	2.7 UJ	mg/kg
								SE-062308-RC-019	3.0 UJ	mg/kg
								SE-062308-RC-020	3.1 UJ	mg/kg
								SE-062308-RC-021	2.5 UJ	mg/kg
								SE-062308-RC-022	2.4 UJ	mg/kg
								SE-062308-RC-023	2.7 UJ	mg/kg
Total Metals	SE-062408-RC-024	Antimony	70.8	68.7	3.0	75-125	35	SE-062408-RC-024	3.1 UJ	mg/kg
								SE-062408-RC-025	3.1 UJ	mg/kg
								SE-062408-RC-026	2.7 UJ	mg/kg
								SE-062408-RC-027	2.6 UJ	mg/kg
Total Metals	SE-062408-RC-028	Antimony	72.4	72.2	2.3	75-125	35	SE-062408-RC-028	3.5 UJ	mg/kg
								SE-062408-RC-029	2.8 UJ	mg/kg
								SE-062408-RC-030	2.8 UJ	mg/kg
								SE-062508-RC-031	3.0 UJ	mg/kg
								SE-062508-RC-032	2.7 UJ	mg/kg
								SE-062508-RC-033	2.6 UJ	mg/kg
								SE-062508-RC-034	2.7 UJ	mg/kg
								SE-062508-RC-035	2.7 UJ	mg/kg
								SE-062508-RC-036	2.5 UJ	mg/kg
								SE-062508-RC-037	2.4 UJ	mg/kg
								SE-062508-RC-038	2.8 UJ	mg/kg
								SE-062508-RC-039	3.1 UJ	mg/kg
								SE-062608-RC-040	2.6 UJ	mg/kg
								SE-062608-RC-041	2.5 UJ	mg/kg

TABLE 8

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Associated Sample ID*	*Analyte*	*MS Recovery (percent)*	*MSD Recovery (percent)*	*RPD*	*Control Limits*		*Associated Sample ID*	*Qualified Sample Result*	*Units*
						Recovery (percent)	*RPD (percent)*			
Total Metals	SE-062408-RC-028	Antimony	72.4	72.2	2.3	75-125	35	SE-062608-RC-042	2.8 UJ	mg/kg
								SE-062608-RC-043	2.7 UJ	mg/kg
								SE-062608-RC-044	3.2 UJ	mg/kg
								SE-062608-RC-045	2.5 UJ	mg/kg
Total Metals	SE-062408-RC-024	Chromium Total	40.1	51.0	9.6	75-125	35	SE-062408-RC-024	52.2 J	mg/kg
Cyanide (total)	SE-061808-RC-001	Cyanide (total)	36.7	-	-	75-125	-	SE-061808-RC-001	0.28 UJ	mg/kg
								SE-061808-RC-002	0.38 UJ	mg/kg
								SE-061808-RC-003	0.28 UJ	mg/kg
								SE-061808-RC-004	0.34 UJ	mg/kg
								SE-061808-RC-005	0.32 UJ	mg/kg
								SE-061808-RC-006	0.32 UJ	mg/kg
								SE-061908-RC-007	0.40 UJ	mg/kg
								SE-061908-RC-008	0.35 UJ	mg/kg
								SE-061908-RC-009	0.33 UJ	mg/kg
								SE-061908-RC-010	0.27 UJ	mg/kg
								SE-061908-RC-011	0.33 UJ	mg/kg
								SE-061908-RC-012	0.30 UJ	mg/kg
								SE-061908-RC-013	0.34 UJ	mg/kg
								SE-061908-RC-014	0.33 UJ	mg/kg
								SE-062308-RC-015	0.31 UJ	mg/kg
								SE-062308-RC-016	0.37 UJ	mg/kg
Cyanide (total)	SE-062308-RC-017	Cyanide (total)	42	-	-	75-125	-	SE-062308-RC-017	0.41 UJ	mg/kg
								SE-062308-RC-018	0.34 UJ	mg/kg
								SE-062308-RC-019	0.31 UJ	mg/kg
								SE-062308-RC-020	0.32 UJ	mg/kg
								SE-062308-RC-021	0.25 UJ	mg/kg
								SE-062308-RC-022	0.28 UJ	mg/kg
								SE-062308-RC-023	0.28 UJ	mg/kg
								SE-062408-RC-025	0.33 UJ	mg/kg
								SE-062408-RC-026	0.30 UJ	mg/kg
								SE-062408-RC-027	0.31 UJ	mg/kg
								SE-062408-RC-029	0.30 UJ	mg/kg
								SE-062408-RC-030	0.28 UJ	mg/kg
								SE-062508-RC-031	0.37 UJ	mg/kg
								SE-062508-RC-032	0.31 UJ	mg/kg
								SE-062508-RC-033	0.28 UJ	mg/kg
								SE-062508-RC-034	0.31 UJ	mg/kg
								SE-062508-RC-035	0.28 UJ	mg/kg
								SE-062508-RC-036	0.26 UJ	mg/kg

TABLE 8

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Associated Sample ID*	*Analyte*	*MS Recovery (percent)*	*MSD Recovery (percent)*	*RPD*	*Control Limits*		*Associated Sample ID*	*Qualified Sample Result*	*Units*
						Recovery (percent)	*RPD (percent)*			
Cyanide (total)	SE-062308-RC-017	Cyanide (total)	42	-	-	75-125	-	SE-062508-RC-037	0.24 UJ	mg/kg
								SE-062508-RC-038	0.30 UJ	mg/kg
								SE-062508-RC-039	0.31 UJ	mg/kg
								SE-062608-RC-040	0.31 UJ	mg/kg
								SE-062608-RC-041	0.27 UJ	mg/kg
								SE-062608-RC-042	0.27 UJ	mg/kg
								SE-062608-RC-043	0.29 UJ	mg/kg
								SE-062608-RC-044	0.35 UJ	mg/kg
								SE-062608-RC-045	0.28 UJ	mg/kg
Cyanide (total)	SE-062408-RC-024	Cyanide (total)	27.7	-	-	75-125	-	SE-062408-RC-024	R	mg/kg
Cyanide (total)	SE-062408-RC-028	Cyanide (total)	24.2	-	-	75-125	-	SE-062408-RC-028	R	mg/kg
Cyanide (total)	TA-061108-SM-036	Cyanide (total)	43.7	-	-	75-125	-	TA-061108-SM-036	0.22 UJ	mg/kg
SEM	SE-062408-RC-024	Lead	56.3	73.4	18.4	75-125	35	SE-062408-RC-024	0.096 J	µmol/g
Total Metals	SE-062408-RC-024	Manganese	335	38.8	74.3	75-125	35	SE-062408-RC-024	330 J	mg/kg
Total Organic Carbon	SE-062408-RC-028	Total Organic Carbon	46.9	-	-	75-125	35	SE-062408-RC-028	65400 J	mg/kg
SVOCs	SE-062308-RC-017	Phenanthrene	0	10	17	34-127	34	SE-062308-RC-017	6740 J	µg/Kg
		Acenaphthene	43	62	33	41-113	27		703 J	µg/Kg
		Fluorene	49	67	29	43-118	28		750 J	µg/Kg
		Benzo(a)anthracene	19	54	36	35-125	30		3720 J	µg/Kg
		Dibenz(a,h)anthracene	54	76	33	29-130	27		755 J	µg/Kg
		Chrysene	18	53	34	33-125	31		4100 J	µg/Kg
		Acenaphthylene	49	69	37	42-102	23		209 J	µg/Kg
		Fluoranthene	0	16	30	30-127	35		8640 J	µg/Kg
		Benzo(b)fluoranthene	23	66	43	34-131	35		3480 J	µg/Kg
		Indeno(1,2,3-cd)pyrene	37	66	34	28-130	29		2270 J	µg/Kg
		Benzo(g,h,i)perylene	35	66	35	23-132	30		2380 J	µg/Kg
		Pyrene	22	57	36	35-125	31		7460 J	µg/Kg
		Dibenzofuran	70	94	31	46-113	24		446 J	µg/Kg
		bis(2-Ethylhexyl)phthalate	57	77	32	37-142	29		458 J	µg/Kg
		2-Methylnaphthalene	70	102	41	32-120	26		112 J	µg/Kg
		Naphthalene	46	66	37	34-112	27		292 J	µg/Kg
		Carbazole	73	97	27	45-123	26		1060 J	µg/Kg

TABLE 8

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Associated Sample ID*	*Analyte*	*MS Recovery (percent)*	*MSD Recovery (percent)*	*RPD*	*Control Limits*		*Associated Sample ID*	*Qualified Sample Result*	*Units*
						Recovery (percent)	*RPD (percent)*			
SEM	SE-061808-RC-001	Mercury	0	0	0	75-125	35	SE-061808-RC-001	R	µmol/g
								SE-061808-RC-002	R	µmol/g
								SE-061808-RC-003	R	µmol/g
								SE-061808-RC-004	R	µmol/g
								SE-061808-RC-005	R	µmol/g
								SE-061808-RC-006	R	µmol/g
								SE-061908-RC-007	R	µmol/g
								SE-061908-RC-008	R	µmol/g
								SE-061908-RC-009	R	µmol/g
								SE-061908-RC-010	R	µmol/g
								SE-061908-RC-011	R	µmol/g
								SE-061908-RC-012	0.000060 J	µmol/g
								SE-061908-RC-013	R	µmol/g
								SE-061908-RC-014	R	µmol/g
								SE-062308-RC-015	R	µmol/g
								SE-062308-RC-016	R	µmol/g
SEM	SE-062308-RC-017	Mercury	0	0	0	75-125	35	SE-062308-RC-017	R	µmol/g
								SE-062308-RC-018	R	µmol/g
								SE-062308-RC-019	R	µmol/g
								SE-062308-RC-020	R	µmol/g
								SE-062308-RC-021	R	µmol/g
								SE-062308-RC-022	R	µmol/g
								SE-062308-RC-023	R	µmol/g
SEM	SE-062408-RC-024	Mercury	0	0	0	75-125	35	SE-062408-RC-024	R	µmol/g
								SE-062408-RC-025	R	µmol/g
								SE-062408-RC-026	R	µmol/g
								SE-062408-RC-027	R	µmol/g
SEM	SE-062408-RC-028	Mercury	0	0	0	75-125	35	SE-062408-RC-028	R	µmol/g
								SE-062408-RC-029	R	µmol/g
								SE-062408-RC-030	R	µmol/g
								SE-062508-RC-031	R	µmol/g
								SE-062508-RC-032	R	µmol/g
								SE-062508-RC-033	R	µmol/g
								SE-062508-RC-034	R	µmol/g
								SE-062508-RC-035	R	µmol/g
								SE-062508-RC-036	R	µmol/g
								SE-062508-RC-037	R	µmol/g
								SE-062508-RC-038	R	µmol/g
								SE-062508-RC-039	R	µmol/g
								SE-062608-RC-040	R	µmol/g
								SE-062608-RC-041	R	µmol/g

TABLE 8

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Associated Sample ID*	*Analyte*	*MS Recovery (percent)*	*MSD Recovery (percent)*	*RPD*	*Control Limits*		*Associated Sample ID*	*Qualified Sample Result*	*Units*
						Recovery (percent)	*RPD (percent)*			
SEM	SE-062408-RC-028	Mercury	0	0	0	75-125	35	SE-062608-RC-042	R	µmol/g
								SE-062608-RC-043	R	µmol/g
								SE-062608-RC-044	R	µmol/g
								SE-062608-RC-045	R	µmol/g
SEM	SE-062308-RC-017	Copper	0	0	0	75-125	35	SE-062308-RC-015	0.42 J	µmol/g
								SE-062308-RC-016	0.41 J	µmol/g
								SE-062308-RC-017	0.35 J	µmol/g
								SE-062308-RC-018	0.24 J	µmol/g
								SE-062308-RC-019	0.31 J	µmol/g
								SE-062308-RC-020	0.038 J	µmol/g
								SE-062308-RC-021	0.17 J	µmol/g
								SE-062308-RC-022	0.15 J	µmol/g
								SE-062308-RC-023	0.054 J	µmol/g
SEM	SE-062408-RC-024	Copper	27.5	34.5	15	75-125	35	SE-062608-RC-045	0.24 J	µmol/g
								SE-062408-RC-024	0.18 J	µmol/g
								SE-062408-RC-025	0.076 J	µmol/g
								SE-062408-RC-026	0.45 J	µmol/g
								SE-062408-RC-027	0.56 J	µmol/g
								SE-062408-RC-029	0.20 J	µmol/g
								SE-062408-RC-030	0.22 J	µmol/g
								SE-062608-RC-041	0.17 J	µmol/g
								SE-062608-RC-042	0.24 J	µmol/g
								SE-062608-RC-043	0.50 J	µmol/g
								SE-062608-RC-044	0.57 J	µmol/g
SEM	SE-062408-RC-028	Copper	22.8	47	15.6	75-125	35	SE-062408-RC-028	0.76 J	µmol/g
								SE-062508-RC-031	0.41 J	µmol/g
								SE-062508-RC-032	0.21 J	µmol/g
								SE-062508-RC-033	0.24 J	µmol/g
								SE-062508-RC-034	0.18 J	µmol/g
								SE-062508-RC-035	0.18 J	µmol/g
								SE-062508-RC-036	0.054 J	µmol/g
								SE-062508-RC-037	0.083 J	µmol/g
								SE-062508-RC-038	0.077 J	µmol/g
								SE-062508-RC-039	0.088 J	µmol/g
								SE-062608-RC-040	0.25 J	µmol/g
								SE-061808-RC-001	0.30 J	µmol/g
								SE-061808-RC-002	0.40 J	µmol/g
								SE-061808-RC-003	0.20 J	µmol/g
								SE-061808-RC-004	0.20 J	µmol/g
								SE-061808-RC-005	0.063 J	µmol/g

TABLE 8

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Associated Sample ID*	*Analyte*	*MS Recovery (percent)*	*MSD Recovery (percent)*	*RPD*	*Control Limits*		*Associated Sample ID*	*Qualified Sample Result*	*Units*
						Recovery (percent)	*RPD (percent)*			
SEM	SE-062408-RC-028	Copper	22.8	47	15.6	75-125	35	SE-061808-RC-006	0.75 J	µmol/g
								SE-061908-RC-007	0.27 J	µmol/g
								SE-061908-RC-008	0.20 J	µmol/g
								SE-061908-RC-009	0.21 J	µmol/g
								SE-061908-RC-010	0.12 J	µmol/g
								SE-061908-RC-011	0.72 J	µmol/g
								SE-061908-RC-012	0.37 J	µmol/g
								SE-061908-RC-013	0.32 J	µmol/g
								SE-061908-RC-014	0.17 J	µmol/g

Notes:

J	Estimated.
MS	Matrix Spike.
MSD	Matrix Spike Duplicate.
RPD	Relative Percent Difference.
R	Rejected.
SEM	Simultaneously Extracted Metals.
SVOCs	Semi-Volatile Organic Compounds.
UJ	Non-detect at the associated estimated value.

TABLE 9

QUALIFIED SAMPLE DATA DUE TO POOR LABORATORY DUPLICATE PRECISION
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Analyte	*Sample ID*	*RPD*	*RPD Control Limit*	*Associated Sample IDs*	*Qualified Sample Results*	*Units*
Lipids	TA-061108-SM-006	36.2	35	TA-061108-SM-006	0.61 J	%
Lipids	TA-061108-SM-036	36.4	35	TA-061108-SM-036	2.5 J	%
Total Organic Carbon	SE-062408-RC-028	70	35	SE-062408-RC-028	65400 J	mg/kg
SEM Copper	SE-062308-RC-017	79	35	SE-062308-RC-017	0.35 J	µmol/g

Notes:
J Estimated.
RPD Relative Percent Difference.
SEM Simultaneously Extracted Metals.

TABLE 10

QUALIFIED SAMPLES RESULTS DUE TO OUTLYING SERIAL DILUTIONS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Sample ID*	*Analyte*	*%D*	*Control Limits*	*Associated Samples*	*Qualified Sample Results*	*Units*
Total Metals	SE-062408-RC-028	Cadmium	50	10	SE-062408-RC-028	1.4 J	mg/kg
Total Metals	SE-062408-RC-028	Copper	10.2	10	SE-062408-RC-028	58.8 J	mg/kg
Total Metals	SE-062308-RC-017	Copper	17.4	10	SE-062308-RC-017	30.8 J	mg/kg
Total Metals	SE-062308-RC-017	Zinc	11.6	10	SE-062308-RC-017	72.3 J	mg/kg
Total Metals	SE-062408-RC-024	Zinc	12.9	10	SE-062408-RC-024	86.2 J	mg/kg
SEM	SE-062408-RC-028	Nickel	12.3	10	SE-062408-RC-028	0.19 J	mg/kg
Total Metals	TA-061108-SM-036	Zinc	18	10	TA-061108-SM-036	21.4 J	mg/kg
Total Metals	TA-061308-SM-041	Zinc	30	10	TA-061308-SM-041	8.7 J	mg/kg
Total Metals	TA-061308-SM-041	Manganese	36	10	TA-061308-SM-041	0.51 J	mg/kg
Total Metals	SE-062408-RC-024	Nickel	13.6	10	SE-062408-RC-024	12.0 J	mg/kg
SEM	SE-062408-RC-028	Lead	11.2	10	SE-062408-RC-028	0.27 J	µmol/g
SEM	SE-062308-RC-017	Zinc	12.3	10	SE-062308-RC-015	1.7 J	µmol/g
					SE-062308-RC-016	1.8 J	µmol/g
					SE-062308-RC-017	1.6 J	µmol/g
					SE-062308-RC-018	0.43 J	µmol/g
					SE-062308-RC-019	1.8 J	µmol/g
					SE-062308-RC-020	1.5 J	µmol/g
					SE-062308-RC-021	0.97 J	µmol/g
					SE-062308-RC-022	0.84 J	µmol/g
					SE-062308-RC-023	0.55 J	µmol/g
SEM	SE-062408-RC-024	Zinc	15.1	10	SE-062408-RC-024	0.99 J	µmol/g
					SE-062408-RC-025	1.1 J	µmol/g
					SE-062408-RC-026	1.5 J	µmol/g
					SE-062408-RC-027	1.8 J	µmol/g

TABLE 10

QUALIFIED SAMPLES RESULTS DUE TO OUTLYING SERIAL DILUTIONS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Sample ID*	*Analyte*	*%D*	*Control Limits*	*Associated Samples*	*Qualified Sample Results*	*Units*
SEM	SE-062408-RC-028	Zinc	22.7	10	SE-062408-RC-028	2.5 J	µmol/g
					SE-062408-RC-029	0.66 J	µmol/g
					SE-062408-RC-030	0.38 J	µmol/g
					SE-062508-RC-031	1.7 J	µmol/g
					SE-062508-RC-032	0.40 J	µmol/g
					SE-062508-RC-033	0.43 J	µmol/g
					SE-062508-RC-034	0.36 J	µmol/g
					SE-062508-RC-035	0.36 J	µmol/g
					SE-062508-RC-036	0.27 J	µmol/g
					SE-062508-RC-037	0.22 J	µmol/g
					SE-062508-RC-038	0.31 J	µmol/g
					SE-062508-RC-039	0.49 J	µmol/g
					SE-062608-RC-040	0.81 J	µmol/g
					SE-062608-RC-041	0.33 J	µmol/g
					SE-062608-RC-042	0.38 J	µmol/g
					SE-062608-RC-043	1.3 J	µmol/g
					SE-062608-RC-044	2.0 J	µmol/g
					SE-062608-RC-045	0.38 J	µmol/g

Notes:
%D Percent difference.
J Estimated.
SEM Simultaneously Extracted Metals.

TABLE 11

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING INTERNAL STANDARD (IS) RECOVERIES
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Sample ID*	*IS*	*IS Area Count (percent)*	*Control Limits (percent)*	*Analytes*	*Qualified Sample Results*	*Units*
SVOCs	TA-060908-SM-021	1,4-Dichlorobenzene-d4	40	50-200	Carbazole	130 UJ	µg/Kg
		Naphthalene-d8	40	50-200	2-Methylnaphthalene	130 UJ	µg/Kg
		Acenaphthene-d10	39	50-200	Naphthalene	32.1 J	µg/Kg
		Chrysene-d12	38	50-200	2-Methylphenol	147 J	µg/Kg
		Perylene-d12	46	50-200	Pyrene	44.3 J	µg/Kg
					Di-n-octyl phthalate	130 UJ	µg/Kg
					Anthracene	130 UJ	µg/Kg
					2,4-Dimethylphenol	330 UJ	µg/Kg
					Phenol	130 UJ	µg/Kg
					bis(2-Ethylhexyl)phthalate	557 J	µg/Kg
					Fluoranthene	110 J	µg/Kg
					Benzo(k)fluoranthene	130 UJ	µg/Kg
					Acenaphthylene	130 UJ	µg/Kg
					Chrysene	130 UJ	µg/Kg
					Benzo(b)fluoranthene	130 UJ	µg/Kg
					Indeno(1,2,3-cd)pyrene	130 UJ	µg/Kg
					Benzo(g,h,i)perylene	130 UJ	µg/Kg
					Benzo(a)anthracene	130 UJ	µg/Kg
					Dibenz(a,h)anthracene	130 UJ	µg/Kg
					Benzo(a)pyrene	130 UJ	µg/Kg
					3&4-Methylphenol	130 UJ	µg/Kg
					Phenanthrene	208 J	µg/Kg
					Fluorene	99.7 J	µg/Kg
					Butyl benzylphthalate	130 UJ	µg/Kg
					Acenaphthene	92.6 J	µg/Kg
					Dibenzofuran	77.2 J	µg/Kg

Notes:
J Estimated.
SVOCs Semi-Volatile Organic Compounds.
UJ Non-detect at the associated estimated value.

TABLE 12

QUALIFIED SAMPLE RESULTS DUE TO VARIABILITY IN FIELD DUPLICATE RESULTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Analyte*	*Original Sample ID*	*Qualified Sample Result*	*Duplicate Sample ID*	*Qualified Sample Result*	*RPD*	*Units*
PCBs	Aroclor 1248	SE-062408-RC-024	597 J	SE-062408-RC-025	79.7 J	153	µg/Kg
	Aroclor 1260		324 J		84.8 J	117	µg/Kg
PCBs	Aroclor 1248	TA-061208-SM-026	5640 J	TA-061208-SM-027	550 J	164	µg/Kg
	Aroclor 1254		3170 J		400 J	155	µg/Kg
	Aroclor 1260		2060 J		240 UJ	158	µg/Kg
Total Metals	Cadmium	SE-062408-RC-024	3.2 J	SE-062408-RC-025	0.76 UJ	123	mg/Kg
Total Metals	Chromium Total	SE-062408-RC-024	52.2 J	SE-062408-RC-025	16.1 J	106	mg/Kg
Total Metals	Manganese	TA-061308-SM-042	1.8 J	TA-061308-SM-043	0.47 UJ	117	mg/Kg
Total Metals	Mercury	SE-062408-RC-024	0.048 UJ	SE-062408-RC-025	0.20 J	122	mg/Kg
SVOCs	Phenol	TA-061308-SM-042	130 UJ	TA-061308-SM-043	19400 J	197	µg/Kg
Methyl Mercury	Methyl Mercury	TA-060908-SM-002	0.0183 J	TA-060908-SM-003	0.00156 J	165	µg/g

Notes:
J Estimated.
UJ Non-detect at the associated estimated value.
PCBs Polychlorinated biphenyls.
RPDs Relative percent differences.
SVOCs Semi-volatile organic compounds.

TABLE 13

QUALIFIED SAMPLE RESULTS DUE TO DIFFERENCES IN DUAL COLUMN RESULTS
SRI/LEY CREEK BIOTA AND SEDIMENT SAMPLING
GM SYRACUSE MAIN SITE
SYRACUSE, NEW YORK
JUNE 2008

Parameter	*Compound*	*Associated Sample ID*	*%D*	*Qualified Sample Results*	*Units*
PCBs	Aroclor 1254	SE-061908-RC-009	84	335 J	µg/Kg

Notes:
%D Percent difference.
J Estimated.
PCBs Polychlorinated biphenyls.