URS

SUMMARY OF SOIL SAMPLING RESULTS
SUPPLEMENTAL INVESTIGATION

Prepared For:

GE APPARATUS SERVICE SHOP
TONAWANDA, NEW YORK

April 23, 2001

Prepared by:

URS CORPORATION
646 PLANK ROAD, SUITE 202
CLIFTON PARK, NY 12065

URS

April 23, 2001

New York State Department
Of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2999

Attention: Mr. Frank Shattuck, P.E.
Regional Solid and Hazardous
Materials Engineer

Re: Summary of Soil Sampling Results
Supplemental Investigation
GE Apparatus Service Center
Tonawanda, New York

Dear Mr. Shattuck:

On behalf of the General Electric Company (GE), URS Corporation (URS) is providing this summary of the results of the implementation of the *Supplemental Investigation Work Plan* (*Work Plan*) for GE's service shop in Tonawanda, New York. The *Work Plan*, which was submitted to New York State Department of Environmental Conservation (NYSDEC) on November 17, 2000, included a scope of work in the additional investigation on the east side of the building and was based on discussions during a meeting between representatives of NYSDEC, GE, and URS on November 2, 2000. The *Work Plan* was approved by the NYSDEC in a letter dated December 13, 2000.

1.0 BACKGROUND

GE's Tonawanda service shop is the subject of a RCRA Facility Investigation and Corrective Measure Study (RFI/CMS). This RFI/CMS is being conducted under the terms of the site's May 1996 *6 NYCRR Part 373 Permit*. On April 24, 2000, GE submitted the *Corrective Measure Study Final Report* (*CMS Report*) to NYSDEC. The corrective measure recommended in the *CMS Report* was capping of impacted subsurface soils and restricting access to impacted surface soils. In their August 8, 2000 comments on the *CMS Report*, NYSDEC indicated that the corrective measure preferred by NYSDEC is excavation and off-site disposal of PCB impacted surface and subsurface soils along the east side of the facility building. The outline of the area that NYSDEC proposes to excavate along the east side of the building is shown on Figure 1.

On September 7, 2000, on behalf of GE, URS submitted responses to NYSDEC's comments on the *CMS Report*. In their response to NYSDEC's comments, GE recognized the long-term benefits of removal of impacted soil, but expressed concerns about achieving cleanup criteria adjacent to the building foundation.

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On November 2, 2000, representatives of NYSDEC, GE, and URS met to discuss the *CMS Report*, NYSDEC's comments, and GE's responses to NYSDEC's comments. The November 17, 2000 *Work Plan* for additional soil characterization was prepared based on discussions during the November 2, 2000 meeting. The NYSDEC approved the *Work Plan*, with clarifications, in a letter dated December 13, 2000. A copy of the NYSDEC's approval letter is in Attachment A.

2.0 SCOPE OF WORK

The objective of the *Work Plan* was to further characterize the soils near the building foundation in order to evaluate whether PCB impacted soil immediately east of the shop building could be excavated without compromising the structural integrity of the building. The scope of work in the *Work Plan* included these three tasks:

- Complete Supplemental Investigation;
- Evaluate Long Term Commitments; and
- Prepare Letter Report.

Section 3.0 describes the investigation activities and results. Section 4.0 presents GE's expectations regarding the nature of GE's long term commitments and is based on discussions during the November 2, 2000 meeting, the contents of the November 17, 2000 *Work Plan,* and the results of this investigation. Section 5.0 presents a proposed course of action for preparation of a *Revised CMS Report*.

3.0 SUPPLEMENTAL INVESTIGATION RESULTS

On January 24, 2001, URS conducted a supplemental investigation at GE's Tonawanda Service Center to better delineate conditions adjacent to the building. Zebra Environmental Corp. of Niagara Falls, New York advanced seven borings (EB-1 through EB-7) along the east side of the building using a Geoprobe. Continuous soil sampling was conducted using a MacroCore open sampler and disposable acetate liners. Personnel from the Buffalo, New York URS office observed the drilling, documented field observations, and collected soil samples. The soil samples were submitted to Severn Trent Laboratories (STL) of Buffalo, New York for PCB analyses using EPA Method 8082. A NYSDEC representative was present to observe a portion of the drilling and soil sampling activities.

The *Work Plan* called for the borings to be approximately 20 feet apart and 16 feet deep to provide additional characterization of the soil between the building and the former rinse tank excavation. Based on review of facility files, the locations of the borings were finalized and adjusted as to avoid hitting the spread footings for the building columns. Two of these locations (EB-2 and EB-4) were further adjusted in the field because of obstructions. Boring EB-2 was placed five feet south of the planned location due to the above ground oil water separator. Boring EB-4 was placed two feet south of the intended location because of the presence of a concrete pad. The actual locations of the borings were measured to the nearest tenth of a foot

relative to the shop building. Table 1 summarizes the boring location measurements and Figure 1 shows the boring locations. Figure 2 is a cross section that shows the approximate location of the borings relative to the building foundation, sewer lines, and former UST excavation.

URS observed the advancement of the seven borings and used a photo-ionization detector (PID) to screen soil samples in the field for the presence of volatile organic compounds (VOCs). The PID readings were consistently zero for each depth interval in the seven borings. Boring logs are presented in Attachment B.

As shown in the boring logs, the upper four to seven feet of each boring is fill material, which was predominantly silty clay with gravel, sand and concrete. Native silty clay was found beginning at four to seven feet below ground surface (bgs) in each of the borings. Several borings (EB-1, EB-2, and EB-7) had transition zones of approximately one foot. In the case of EB-7, this layer was fine limestone gravel, which URS believes to be pipe bedding material for the sewer lines adjacent to the building. At EB-1 and EB-2, the transition zone consisted of loose gray silt with organics (EB-1) or a trace of sand (EB-2).

Generally, the soil was described as moist and groundwater was not encountered. However, perched groundwater was encountered in EB-7 at the four to five feet bgs interval. This corresponds to the layer of fine limestone gravel. A sheen was observed on the water on the outside of the MacroCore sampler.

In accordance with the *Work Plan*, URS collected four soil samples from each boring. The samples were collected from two to four feet below ground surface (bgs), six to eight feet bgs, ten to twelve feet bgs, and 14 to 16 feet bgs. The soil samples collected from the six to eight foot depth range and the ten to twelve foot depth range were analyzed for PCBs using EPA Method 8082. In accordance with the *Work Plan*, the additional two soil samples from each boring were held pending the results for the other samples. The *Work Plan* stated that if the results of the initial analyses indicated that PCB concentrations in the soil were less than the cleanup objectives, the remaining samples would be discarded.

The results of the PCB analysis for the fourteen soil samples that were analyzed are summarized in Table 2. The laboratory report is presented as Attachment C. As shown, concentrations of PCBs in thirteen of the fourteen soil samples were below detection limits of 0.5 mg/kg. The remaining soil sample was collected from boring EB-7 from six to eight feet bgs, which is just below the fine limestone gravel with the perched groundwater. The analytical results for this soil sample indicate a PCB concentration of 1.5 mg/kg, which is less than the subsurface soil cleanup objective of 10 mg/kg PCB. In accordance with the *Work Plan*, GE elected not to analyze any of the additional soil samples because the results of samples initially analyzed indicate that the soil supporting the building foundation does not contain PCBs at concentrations greater than the cleanup objectives.

The supplemental investigation results indicate that subsurface soil between the service shop and the pipe trench has not been impacted by PCBs. The one sample with a detectable concentration of PCBs was collected from soil adjacent to the pipe bedding material, which was previously identified as an area of concern and was addressed during the CMS. However, even this sample contained a concentration of PCBs well below the subsurface cleanup objective of 10 mg/kg. Therefore, there is no evidence of migration of PCBs into the native silty clay which supports the building foundation.

4.0 ANTICIPATED OBLIGATIONS

This section presents GE's understanding of their obligations if they elect to remove impacted soils east of the building. This understanding is based on the November 2, 2000 meeting, the November 17, 2000 *Work Plan*, and the results of the supplemental investigation. Specifically, the two issues that GE wishes to reach a consensus with NYSDEC are:

- Post Excavation Samples; and
- Long-term Commitments.

These two issues have been the subject of an ongoing dialogue between GE and NYSDEC. The November 17, 2000 *Work Plan* laid out several possible conclusions that could be reached regarding these issues based on the results of the supplemental investigation. GE believes that the results of the supplemental investigation clearly indicate that subsurface soil along the east side of the building meets the subsurface soil cleanup objective.

The remainder of this section describes the outcome GE anticipates if they elect to remove impacted soils east of the building. GE has based this understanding of their anticipated long-term commitments on discussions with NYSDEC and thus trusts that NYSDEC will concur with GE's interpretation.

4.1 POST EXCAVATION SAMPLES FROM SIDEWALLS

As we discussed during the November 2, 2000 meeting, GE and URS understand that analytical results will be needed to demonstrate that the quality of the soil that remains at the site after excavation would not pose a significant risk to human health and the environment. If GE elects to remove impacted soil east of the building, GE would collect post excavation samples from the base, north, east, and south sidewalls of the excavation east of the building. For the west sidewall of the excavation, which would be along the building foundation, GE proposes that the results of the supplemental investigation, presented in this report, be used in lieu of post excavation samples. The results of the supplemental investigation, indicate that the subsurface soils collected near the building foundation do not contain PCBs at concentrations that are greater than the New York State recommended soil cleanup objective for subsurface soils (10 mg/kg). GE believes these results adequately characterize the quality of subsurface soil that would remain along the building footings. GE anticipates that they would collect post

excavation soil samples to confirm that surface soils adjacent to the building meet the cleanup objective for surface soils (1 mg/kg).

4.2 LONG TERM COMMITMENTS

Based on our discussions on November 2, 2000, GE and URS understand that GE's long-term commitments after removal of impacted soil along the east side of the building would depend upon the PCB concentrations that remain in the soil that supports the building foundation. Based on the results of the supplemental investigation, it is apparent that if impacted soil east of the building were removed, the remaining subsurface soil would contain concentrations of PCBs less than the remedial objective for subsurface soil of 10 mg/kg. Therefore, GE proposes that an appropriate long-term commitment for the site would be to file a deed notice stating that the site had been remediated to applicable NYSDEC cleanup standards and that low levels of contaminants remained in subsurface soils near the building.

5.0 PROPOSED COURSE OF ACTION

GE is prepared to revise the CMS report to incorporate the results of this supplemental investigation after they reach concurrence with NYSDEC regarding GE's potential long-term commitments at the site. If NYSDEC concurs with GE's understanding of their long-term commitments, URS will revise the *CMS* on behalf of GE and submit the *Revised CMS Report* to the NYSDEC. The *Revised CMS Report* would then be submitted to NYSDEC in June 2001, provided that GE and NYSDEC reach a consensus by May 1, 2001.

However, if NYSDEC does not concur with GE's understanding of their long-term commitments, GE would like to discuss NYSDEC's concerns. After GE and NYSDEC reach a consensus regarding the potential long-term commitments, GE will prepare a *Revised CMS Report* for submittal to NYSDEC.

URS

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Please contact the undersigned at (518) 688-0015 or Ms. Dawn Varacchi of GE at (508) 486-0503 if you have any questions regarding this report.

Very truly yours,
URS

Teresa Misiolek, CPG
Project Manager

Don Porterfield, P.E.
Senior Engineer

Attachments: Table 1 – Boring Location Measurements
Table 2 – Summary of Results for PCBs in Soil
Figure 1 – Supplemental Investigation Sampling Locations
Figure 2 – Cross-Section with Soil Boring Locations
Attachment A – A December 13, 2000 Work Plan Approval Letter from NYSDEC
Attachment B – Boring Logs
Attachment C – Laboratory Analytical Report

cc: Ms. Dawn Varacchi, GE
Mr. Tony Hejmanowski, GE
Mr. Roger Murphy, NYSDEC
Mr. J. Reidy, USEPA
Mr. Mark Colmerauer, URS
Ms. Karen Peppin, URS

TABLE 1
BORING LOCATION MEASURMENTS

GENERAL ELECTRIC COMPANY
TONAWANDA, NEW YORK

Boring ID	Distance North[1] (feet)	Distance East[2] (feet)
EB1	142.0	2.5
EB2	113.0	2.5
EB3	104.0	2.5
EB4	97.0	2.5
EB5	59.0	2.5
EB6	39.0	2.5
EB7	19.0	2.5

Notes:
1 - Distance north measured from the north wall of the building extension on the east side of service shop.
2 - Distance east measured from the east wall of the building on the east side of the service shop.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS

GENERAL ELECTRIC COMPANY
TONAWANDA, NEW YORK

Parameter	Boring ID / Depth (feet) Below Ground/ Date Collected							
	EB1 6-8 1/24/01	EB1 10-12 1/24/01	EB2 6-8 1/24/01	EB2 10-12 1/24/01	EB3 6-8 1/24/01	EB3 10-12 1/24/01	EB4 6-8 1/24/01	EB4 10-12 1/24/01
Aroclor 1016	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1221	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1232	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1242	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1248	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1254	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1260	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Total PCB	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:

1 - All units are mg/kg.

2 - A '<' indicates that the compound was not detected at a concentration equal to or greater than the practical quantification limit shown.

3 - Samples were analyzed for PCBs by Severn Trent Laboratories of Buffalo, New York using EPA Method 8082.

4 - The cleanup objective for subsurface soils is 10 mg/kg.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS

GENERAL ELECTRIC COMPANY
TONAWANDA, NEW YORK

Parameter	Boring ID / Depth (feet) Below Ground/ Date Collected						
	EB5 6-8 1/24/01	EB5-Dup 6-8 1/24/01	EB5 10-12 1/24/01	EB6 6-8 1/24/01	EB6 10-12 1/24/01	EB7 6-8 1/24/01	EB7 10-12 1/24/01
Aroclor 1016	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1221	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1232	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1242	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1248	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1254	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1260	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	<0.50
Total PCB	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	<0.50

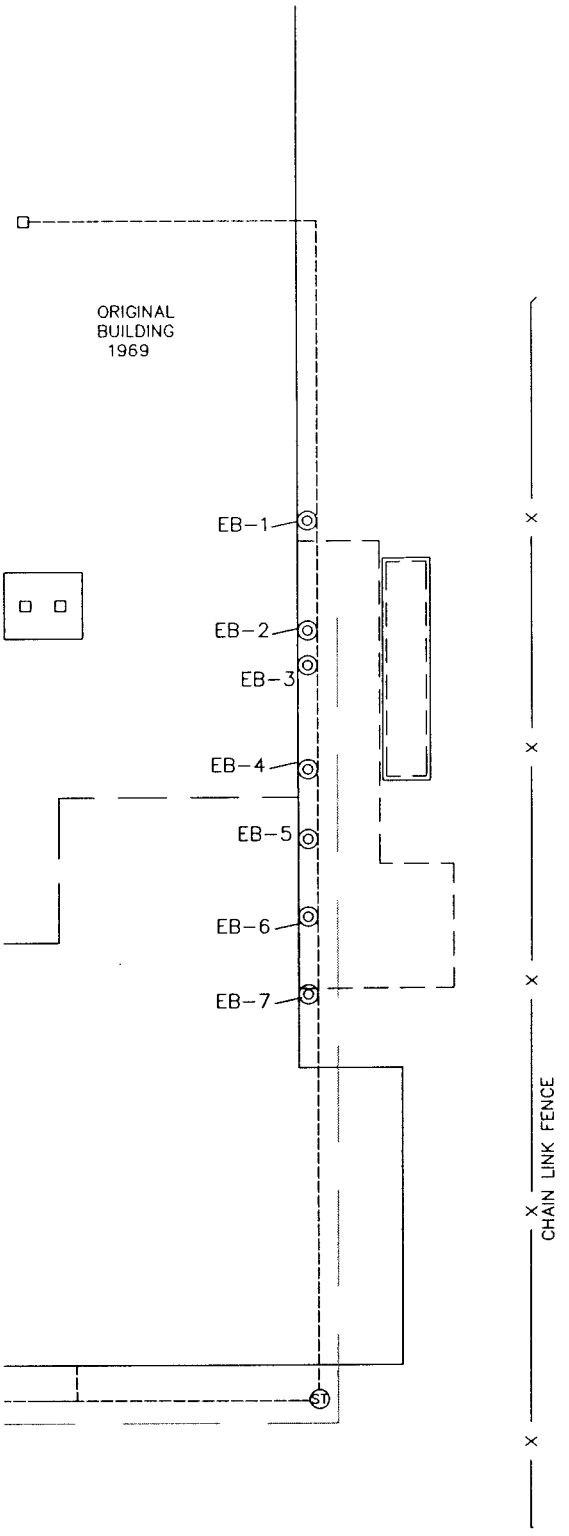
Notes:

1 - All units are mg/kg.

2 - A '<' indicates that the compound was not detected at a concentration equal to or greater than the practical quantification limit shown.

3 - Samples were analyzed for PCBs by Severn Trent Laboratories of Buffalo, New York using EPA Method 8082.

4 - The cleanup objective for subsurface soils is 10 mg/kg.



EXPLANATION

EB-1◎ – BORING (URS, 2000)

– STORM SEWER

– SANITARY SEWER

– FLOOR DRAIN

ST – STORM MANHOLE

– EXTENT OF POTENTIAL EXCAVATION

GRAPHIC SCALE (IN FEET)

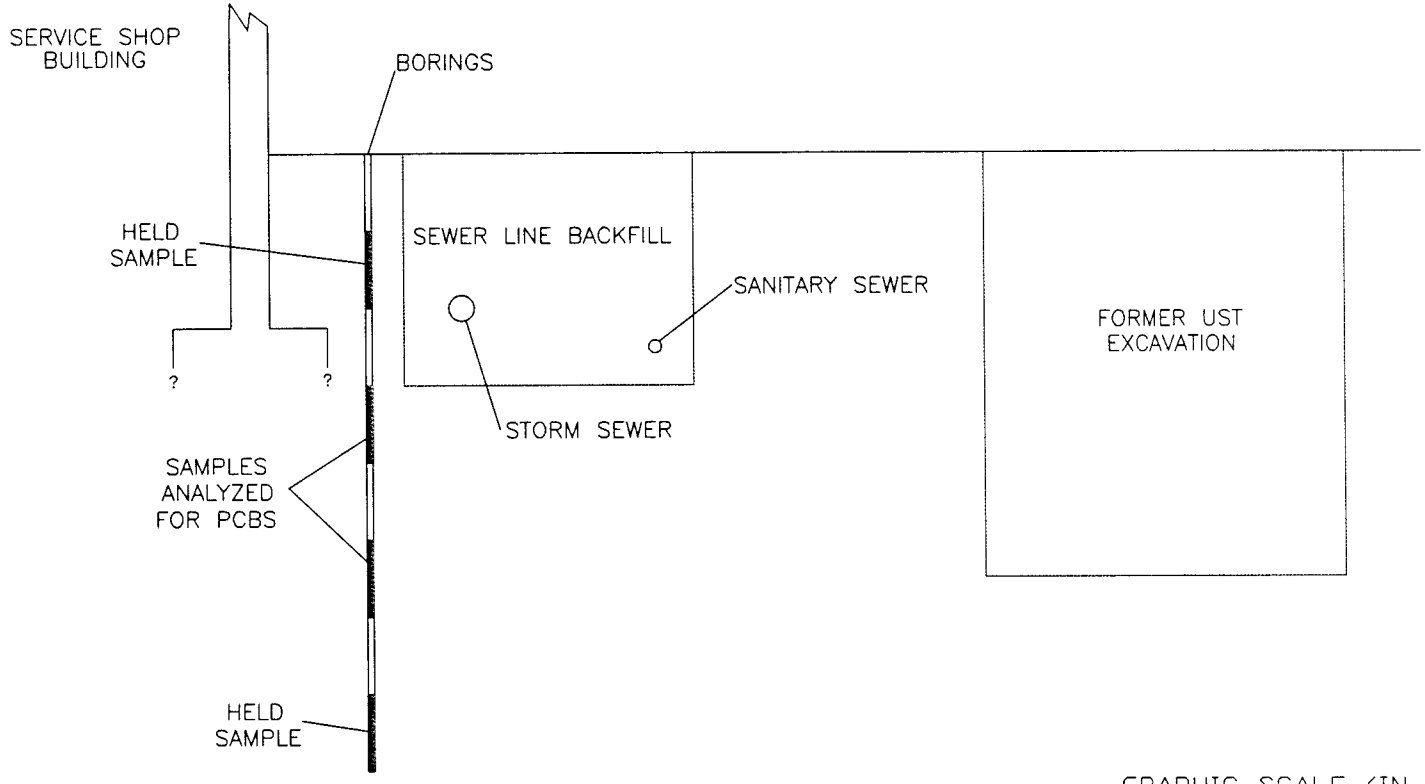
0 50 100

EAST4.DWG 02/09/01

NOTE: ALL SAMPLING LOCATIONS ARE APPROXIMATE.

SOURCE: "MAP OF GENERAL ELECTRIC SERVICE CENTER PROPERTY, PART OF LOT 45, TOWNSHIP 12, RANGE 8, TOWN OF TONAWANDA, ERIE COUNTY, NEW YORK" KRIEBEL ASSOCIATES, JULY 29, 1998.

FIGURE 1	SUPPLEMENTAL INVESTIGATION SAMPLING LOCATIONS
	175 MILENS ROAD TONAWANDA, NEW YORK
URS	646 PLANK ROAD, SUITE 202 CLIFTON PARK, NEW YORK 12065



GRAPHIC SCALE (IN FEET)

0 5 10

02/15/01

XSECTION3.DWG

NOTE: LOCATIONS ARE APPROXIMATE

FIGURE 2	CROSS SECTION WITH SOIL BORING LOCATIONS
	175 MILENS ROAD TONAWANDA, NEW YORK
URS	646 PLANK ROAD, SUITE 202 CLIFTON PARK, NEW YORK 12065

New York State Department of Environmental Conservation
Regional Director, Region 9
270 Michigan Avenue, Buffalo, New York, 14203-2999
Phone: (716) 851-7200 • **FAX:** (716) 851-7211
Website: www.dec.state.ny.us

John P. Cahill
Commissioner

December 13, 2000

Mr. A. Hejmanowski
EHS Coordinator
GE Apparatus Service
175 Milens Road
Tonawanda, New York 14150

Dear Mr. Hejmanowski:

Supplemental Investigation Work Plan
GE Apparatus Service Center
Tonawanda, New York

The New York State Department of Environmental Conservation has reviewed the Supplemental Investigation Work Plan dated November 17, 2000 for the GE Apparatus Service Shop in Tonawanda, New York. This work plan is acceptable with the following clarification:

- Sampling and analysis activities should be performed in accordance with the Quality Assurance Plan (QAPP) that was approved by the Department in the previous RFI Work Plan. The laboratory shall analyze for PCBs using EPA Method 8082.

The Supplemental Work Plan can now be implemented. Please notify this office at least one week prior to commencement of the field work.

If you have any questions, please contact Ms. Kathleen Emery of my staff at 716/851-7220.

Sincerely,

Frank Shattuck

Frank Shattuck, P.E.
Regional Solid & Hazardous Materials Engineer

/lj

cc: Ms. Kathleen Emery, NYSDEC/Buffalo
Mr. Roger Murphy, NYSDEC/Albany
Ms. Dawn Varacchi, GE
Mr. Don Porterfield, URS
Mr. James Reidy, USEPA Region II

URS Corporation

GEOPROBE LOG

BORING NO:	EB-1
SHEET:	1 of 1
JOB NO.:	0500035851.03
BORING LOCATION:	
GROUND ELEVATION:	
DATE STARTED:	01/24/01
DATE FINISHED:	01/24/01
DRILLER:	Chris Donavin
GEOLOGIST:	Scott McCabe
REVIEWED BY:	Mark Colmerauer

PROJECT: GE Apparatus Service Shop - Tonawanda, NY

CLIENT: General Electric Corporation

BORING CONTRACTOR: Zebra

GROUNDWATER: Not encountered

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE		MacroCore		
DIA.		2"		
WT.		Direct Push		
FALL		---		

* POCKET PENETROMETER READING

DEPTH FEET	SAMPLE STRATA	NO.	TYPE	BLOWS PER 6"	REC% ROD%	DESCRIPTION COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS Moist
		1*	Macro		100%	Brown Reddish Brown	Very stiff	Fill: Silty Clay, trace gravel, sand and concrete (2.75 TSF)		0	moist
						Gray	Loose	Silt some organics			
5		2*	Macro		100%	Reddish Brown	Hard	Silty clay, trace coarse sand and fine gravel, few vertical, light gray desiccation cracks (>4.5 TSF)	CL	0	
10		3*	Macro		100%					0	
15		4*	Macro		100%					0	
								Boring Completed at 16.0' bgs			
20											
25											
30											
35											

Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, 2" diameter Macro Core sampler. * Samples submitted for PCB (8082) analyses (2.0-4.0', 6.0-8.0', 10.0-12.0', and 14.0-16.0').

PROJECT NO.	0500035851.03
BORING NO.	EB-1

URS Corporation

GEOPROBE LOG

BORING NO:	EB-2
SHEET:	1 of 1
JOB NO.:	0500035851.03
BORING LOCATION:	
GROUND ELEVATION:	
DATE STARTED:	01/24/01
DATE FINISHED:	01/24/01
DRILLER:	Chris Donavin
GEOLOGIST:	Scott McCabe
REVIEWED BY:	Mark Colmerauer

PROJECT: GE Apparatus Service Shop - Tonawanda, NY
CLIENT: General Electric Corporation
BORING CONTRACTOR: Zebra
GROUNDWATER: Not encountered

	CAS.	SAMPLER	CORE	TUBE
TYPE		MacroCore		
DIA.		2"		
WT.		Direct Push		
FALL		---		

DATE	TIME	LEVEL	TYPE

* POCKET PENETROMETER READING

DEPTH FEET	SAMPLE STRATA	NO.	TYPE	BLOWS PER 6"	REC% ROD%	DESCRIPTION COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS Moist
0		1*	Macro		100%	Dark Brown	Very stiff	Fill: Silty Clay, trace gravel, sand and concrete (2.75-3.75 TSF)		0	moist
5		2*	Macro		100%	Gray	Loose	Silt trace sand and clay		0	
						Reddish Brown	Hard	Silty clay, trace coarse sand and fine gravel, few vertical, light gray desiccation cracks (>4.5 TSF)	CL		
10		3*	Macro		100%					0	
15		4*	Macro		100%					0	
20								Boring Completed at 16.0' bgs			
25											
30											
35											

Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, 2" diameter Macro Core sampler. * Samples submitted for PCB (8082) analyses (2.0-4.0', 6.0-8.0', 10.0-12.0', and 14.0-16.0').

PROJECT NO.	0500035851.03
BORING NO.	EB-2

URS Corporation

GEOPROBE LOG

BORING NO:	EB-3
SHEET:	1 of 1
JOB NO.:	0500035851.03
BORING LOCATION:	
GROUND ELEVATION:	
DATE STARTED:	01/24/01
DATE FINISHED:	01/24/01
DRILLER:	Chris Donavin
GEOLOGIST:	Scott McCabe
REVIEWED BY:	Mark Colmerauer

PROJECT: GE Apparatus Service Shop - Tonawanda, NY

CLIENT: General Electric Corporation

BORING CONTRACTOR: Zebra

GROUNDWATER: Not encountered

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE		MacroCore		
DIA.		2"		
WT.		Direct Push		
FALL		---		

* POCKET PENETROMETER READING

DEPTH FEET	SAMPLE STRATA	NO.	TYPE	BLOWS PER 6"	REC% ROD%	DESCRIPTION COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS Moist
		1*	Macro		100%	Dark Brown	Stiff	Fill: Silty Clay, trace gravel, sand and concrete (2.0-2.5 TSF)		0	moist
5		2*	Macro		100%		Very stiff			0	
						Reddish Brown	Hard	Silty clay, trace coarse sand and fine gravel, few vertical, light gray desiccation cracks (>4.5 TSF)	CL		
10		3*	Macro		100%					0	
		4*	Macro		100%					0	
15											
								Boring Completed at 16.0' bgs			
20											
25											
30											
35											

Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, 2" diameter Macro Core sampler. * Samples submitted for PCB (8082) analyses (2.0-4.0', 6.0-8.0', 10.0-12.0', and 14.0-16.0').

PROJECT NO.	0500035851.03
BORING NO.	EB-3

URS Corporation

GEOPROBE LOG

BORING NO:	EB-4
SHEET:	1 of 1
JOB NO.:	0500035851.03
BORING LOCATION:	
GROUND ELEVATION:	
DATE STARTED:	01/24/01
DATE FINISHED:	01/24/01
DRILLER:	Chris Donavin
GEOLOGIST:	Scott McCabe
REVIEWED BY:	Mark Colmerauer

PROJECT: GE Apparatus Service Shop - Tonawanda, NY
CLIENT: General Electric Corporation
BORING CONTRACTOR: Zebra
GROUNDWATER: Not encountered

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE		MacroCore		
DIA.		2"		
WT.		Direct Push		
FALL		---		

* POCKET PENETROMETER READING

DEPTH FEET	SAMPLE STRATA	NO.	TYPE	BLOWS PER 6"	REC% ROD%	DESCRIPTION COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS Moist
		1*	Macro		100%	Brown / Reddish Brown	Stiff / Very Stiff	Fill: Silty Clay, trace gravel, sand and concrete (2.0-3.5 TSF)		0	moist
5		2*	Macro		100%	Reddish Brown	Hard	Silty clay, trace coarse sand and fine gravel, few vertical, light gray desiccation cracks (>4.5 TSF)	CL	0	
10		3*	Macro		100%					0	
15		4*	Macro		100%					0	
								Boring Completed at 16.0' bgs			
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PROJECT NO.	0500035851.03
BORING NO.	EB-4

URS Corporation

GEOPROBE LOG

BORING NO:	EB-5
SHEET:	1 of 1
JOB NO.:	0500035851.03
BORING LOCATION:	
GROUND ELEVATION:	
DATE STARTED:	01/24/01
DATE FINISHED:	01/24/01
DRILLER:	Chris Donavin
GEOLOGIST:	Scott McCabe
REVIEWED BY:	Mark Colmerauer

PROJECT: GE Apparatus Service Shop - Tonawanda, NY

CLIENT: General Electric Corporation

BORING CONTRACTOR: Zebra

GROUNDWATER: Not encountered

	CAS.	SAMPLER	CORE	TUBE
TYPE		MacroCore		
DIA.		2"		
WT.		Direct Push		
FALL		---		

DATE	TIME	LEVEL	TYPE

* POCKET PENETROMETER READING

DEPTH FEET	SAMPLE STRATA	NO.	TYPE	BLOWS PER 6"	REC% ROD%	DESCRIPTION COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS Moist
		1*	Macro		100%	Brown	Stiff / Very Stiff	Fill: Silty Clay, trace gravel, sand and concrete (2.0-3.75 TSF)		0	moist
5		2*	Macro		100%	Reddish Brown	Hard	Silty clay, trace coarse sand and fine gravel, few vertical, light gray desiccation cracks (>4.5 TSF)	CL	0	
10		3*	Macro		100%					0	
15		4*	Macro		100%		Very Stiff	-(3.25 to 2.25 TSF)		0	
								Boring Completed at 16.0' bgs			
20											
25											
30											
35											

Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, 2" diameter Macro Core sampler. * Samples submitted for PCB (8082) analyses (2.0-4.0', 6.0-8.0', 10.0-12.0', and 14.0-16.0').

PROJECT NO.	0500035851.03
BORING NO.	EB-5

URS Corporation

GEOPROBE LOG

BORING NO:	EB-6
SHEET:	1 of 1
JOB NO.:	0500035851.03
BORING LOCATION:	
GROUND ELEVATION:	
DATE STARTED:	01/24/01
DATE FINISHED:	01/24/01
DRILLER:	Chris Donavin
GEOLOGIST:	Scott McCabe
REVIEWED BY:	Mark Colmerauer

PROJECT: GE Apparatus Service Shop - Tonawanda, NY
CLIENT: General Electric Corporation
BORING CONTRACTOR: Zebra
GROUNDWATER: Not encountered

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE		MacroCore		
DIA.		2"		
WT.		Direct Push		
FALL		---		

* POCKET PENETROMETER READING

DEPTH FEET	SAMPLE STRATA	NO.	TYPE	BLOWS PER 6"	REC% ROD%	DESCRIPTION COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS Moist
		1*	Macro		100%	Brown Reddish Brown	Stiff Very stiff	Fill: Silty Clay, trace gravel, sand and concrete (2.0-3.75 TSF) 3.5-4.0' Fine to coarse sand		0	moist
5		2*	Macro		100%	Reddish Brown	Hard	Silty clay, trace coarse sand and fine gravel, few vertical, light gray desiccation cracks (>4.5 TSF)	CL	0	
10		3*	Macro		100%					0	
15		4*	Macro		100%		Very Stiff	-(3.75 to 2.50 TSF)		0	
20								Boring Completed at 16.0' bgs			
25											
30											
35											

Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, 2" diameter Macro Core sampler. * Samples submitted for PCB (8082) analyses (2.0-4.0', 6.0-8.0', 10.0-12.0', and 14.0-16.0').

PROJECT NO.	0500035851.03
BORING NO.	EB-6

URS Corporation

GEOPROBE LOG

BORING NO:	EB-7
SHEET:	1 of 1
JOB NO.:	0500035851.03
BORING LOCATION:	
GROUND ELEVATION:	
DATE STARTED:	01/24/01
DATE FINISHED:	01/24/01
DRILLER:	Chris Donavin
GEOLOGIST:	Scott McCabe
REVIEWED BY:	Mark Colmerauer

PROJECT: GE Apparatus Service Shop - Tonawanda, NY

CLIENT: General Electric Corporation

BORING CONTRACTOR: Zebra

GROUNDWATER: Perched from 4.0-5.0'

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE		MacroCore		
DIA.		2"		
WT.		Direct Push		
FALL		---		

* POCKET PENETROMETER READING

DEPTH FEET	SAMPLE STRATA	NO.	TYPE	BLOWS PER 6"	REC% ROD%	DESCRIPTION COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS Moist
		1*	Macro		100%	Brown Reddish Brown	Stiff Very stiff	Fill: Silty Clay, trace gravel, sand and concrete (2.0-3.75 TSF)		0	moist ↓ wet
5		2*	Macro		100%	Gray / Reddish Brown	Loose / Hard	Fine limestone gravel / Silty clay, trace coarse sand and fine gravel, few vertical, light gray desiccation cracks (>4.5 TSF)	CL	0	moist
10		3*	Macro		100%					0	
15		4*	Macro		100%					0	
20								Boring Completed at 16.0' bgs			
25											
30											
35											

Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, 2" diameter Macro Core sampler. * Samples submitted for PCB (8082) analyses (2.0-4.0', 6.0-8.0', 10.0-12.0', and 14.0-16.0').

Note : Sheen on water found on outside of soil cores (4.0-16.0') originating from 4.0-5.0'.

PROJECT NO.	0500035851.03
BORING NO.	EB-7

STL Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Tel: 716 691 2600
Fax: 716 691 7991
www.stl-inc.com

February 2, 2001

Mr. Mark Colmerauer
URS Corporation
282 Delaware Avenue
Buffalo, NY 14202

RE: Analytical Results

Dear Mr. Colmerauer:

Please find enclosed analytical results concerning the samples submitted by your firm. The pertinent information regarding these analyses is listed below:

Quote #:	NY00-249
Project:	GE Tonawanda PCB Testing
Matrix:	Soil
Samples Received:	01/24/01
Sample Date:	01/24/01

If you have any questions concerning these data, please contact me at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide URS Corporation with environmental testing services. We look forward to serving you in the future.

Sincerely,

STL Buffalo

Amy Haag

Amy L. Haag
Program Manager

ALH/ekn
Enclosure

I.D. #A01-0747
#NY0A8653

This report contains 18 pages which are individually numbered.

SEVERN TRENT SERVICES

STL Buffalo

ANALYTICAL RESULTS

Prepared For:

URS Corporation
282 Delaware Avenue
Buffalo, NY 14202

Prepared By:

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228-2298

METHODOLOGY

The specific methodology employed in obtaining the enclosed analytical results is indicated on the specific data tables. The method number presented refers to the following U.S. Environmental Protection Agency reference:

- "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846), Third Edition, Update III, December 1996, United States Environmental Protection Agency Office of Solid Waste.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

The cooler was received at an ambient temperature.

METHOD 8082

No deviations that affected the acceptability of the analytical results were encountered during the analytical procedures.

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
'	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit. detection limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance.
*	Indicates analysis is not within the quality control limits
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995

Sample Data Package

lient ID ob No ample Date	Lab ID	GE-EB1-10-12 A01-0747 01/24/2001	A1074702	GE-EB1-6-8 A01-0747 01/24/2001	A1074701	GE-EB2-10-12 A01-0747 01/24/2001	A1074704	GE-EB2-6-8 A01-0747 01/24/2001	A1074703
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
oclor 1016	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
oclor 1221	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
oclor 1232	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
oclor 1242	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
oclor 1248	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
oclor 1254	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
oclor 1260	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
SURROGATE(S)									
trachloro-m-xylene	%	104	32-148	114	32-148	106	32-148	101	32-148
ecachlorobiphenyl	%	90	36-153	100	36-153	97	36-153	90	36-153

lient ID ob No ample Date	Lab ID	GE-EB3-10-12 A01-0747 01/24/2001	A1074706	GE-EB3-6-8 A01-0747 01/24/2001	A1074705	GE-EB4-10-12 A01-0747 01/24/2001	A1074708	GE-EB4-6-8 A01-0747 01/24/2001	A1074707
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
oclor 1016	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
oclor 1221	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
oclor 1232	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
oclor 1242	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
oclor 1248	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
oclor 1254	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
oclor 1260	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
SURROGATE(S)									
etrachloro-m-xylene	%	117	32-148	110	32-148	117	32-148	104	32-148
ecachlorobiphenyl	%	106	36-153	98	36-153	109	36-153	96	36-153

= Not Applicable ND = Not Detected

GE Tonawanda PCB Testing
METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID		GE-EB5-10-12		GE-EB5-6-8		GE-EB5-6-8 FD		GE-EB6-10-12	
Job No	Lab ID	A01-0747	A1074710	A01-0747	A1074709	A01-0747	A1074709FD	A01-0747	A1074712
Sample Date		01/24/2001		01/24/2001		01/24/2001		01/24/2001	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
roclor 1016	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
roclor 1221	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
roclor 1232	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
roclor 1242	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
roclor 1248	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
roclor 1254	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
roclor 1260	MG/KG	ND	0.50	ND	0.50	ND	0.50	ND	0.50
SURROGATE(S)									
etrachloro-m-xylene	%	104	32-148	106	32-148	109	32-148	106	32-148
ecachlorobiphenyl	%	102	36-153	100	36-153	102	36-153	104	36-153

Client ID		GE-EB6-6-8		GE-EB7-10-12		GE-EB7-6-8			
Job No	Lab ID	A01-0747	A1074711	A01-0747	A1074714	A01-0747	A1074713		
Sample Date		01/24/2001		01/24/2001		01/24/2001			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
roclor 1016	MG/KG	ND	0.50	ND	0.50	ND	0.50	NA	
roclor 1221	MG/KG	ND	0.50	ND	0.50	ND	0.50	NA	
roclor 1232	MG/KG	ND	0.50	ND	0.50	ND	0.50	NA	
roclor 1242	MG/KG	ND	0.50	ND	0.50	ND	0.50	NA	
roclor 1248	MG/KG	ND	0.50	ND	0.50	ND	0.50	NA	
roclor 1254	MG/KG	ND	0.50	ND	0.50	ND	0.50	NA	
roclor 1260	MG/KG	ND	0.50	ND	0.50	1.5	0.50	NA	
SURROGATE(S)									
etrachloro-m-xylene	%	108	32-148	114	32-148	106	32-148	NA	
ecachlorobiphenyl	%	106	36-153	112	36-153	109	36-153	NA	

\ = Not Applicable ND = Not Detected

STL Buffalo

Chronology and QC Summary Package

Client ID Job No Sample Date	Lab ID	Method Blank A01-0747	A1B0072802						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
roclor 1016	MG/KG	ND	0.50	NA		NA		NA	
roclor 1221	MG/KG	ND	0.50	NA		NA		NA	
roclor 1232	MG/KG	ND	0.50	NA		NA		NA	
roclor 1242	MG/KG	ND	0.50	NA		NA		NA	
roclor 1248	MG/KG	ND	0.50	NA		NA		NA	
roclor 1254	MG/KG	ND	0.50	NA		NA		NA	
roclor 1260	MG/KG	ND	0.50	NA		NA		NA	
SURROGATE(S)									
etrachloro-m-xylene	%	116	32-148	NA		NA		NA	
ecachlorobiphenyl	%	97	36-153	NA		NA		NA	

A = Not Applicable ND = Not Detected

Client ID		GE-EB5-6-8 MS		GE-EB5-6-8 SD		Matrix Spike Blank			
Job No / Lab ID		A01-0747 / A1074709MS		A01-0747 / A1074709SD		A01-0747 / A1B0072801			
Sample Date		01/24/2001		01/24/2001					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	MG/KG	ND	0.50	ND	0.50	ND	0.50	NA	
Aroclor 1221	MG/KG	ND	0.50	ND	0.50	ND	0.50	NA	
Aroclor 1232	MG/KG	ND	0.50	ND	0.50	ND	0.50	NA	
Aroclor 1242	MG/KG	ND	0.50	ND	0.50	ND	0.50	NA	
Aroclor 1248	MG/KG	ND	0.50	ND	0.50	ND	0.50	NA	
Aroclor 1254	MG/KG	3.1	0.50	3.7	0.50	2.4	0.50	NA	
Aroclor 1260	MG/KG	ND	0.50	ND	0.50	ND	0.50	NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	110	32-148	111	32-148	120	32-148	NA	
Decachlorobiphenyl	%	106	36-153	108	36-153	96	36-153	NA	

A = Not Applicable ND = Not Detected

ent Sample ID: GE-EB5-6-8 GE-EB5-6-8 MS GE-EB5-6-8 SD
Lab Sample ID: A1074709 A1074709MS A1074709SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
ETHOD 8082 - POLYCHLORINATED BIPHENYLS Aroclor 1254	MG/KG	0	3.09	3.67	2.72	2.87	114	128	121	12	30.0	52-153

Indicates Result is outside QC Limits
IC = Not Calculated ND = Not Calculated

ient Sample ID: Method Blank
Lab Sample ID: A1B0072802

Matrix Spike Blank
A1B0072801

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
ETHOD 8082 - POLYCHLORINATED BIPHENYLS Aroclor 1254	MG/KG	2.45	2.01	122	52-153

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	GE-EB1-10-12 A01-0747 A1074702	GE-EB1-6-8 A01-0747 A1074701	GE-EB2-10-12 A01-0747 A1074704	GE-EB2-6-8 A01-0747 A1074703	GE-EB3-10-12 A01-0747 A1074706
Sample Date	01/24/2001 13:20	01/24/2001 13:10	01/24/2001 12:49	01/24/2001 12:42	01/24/2001 12:20
Received Date	01/24/2001 14:30	01/24/2001 14:30	01/24/2001 14:30	01/24/2001 14:30	01/24/2001 14:30
Extraction Date	01/26/2001 16:00	01/26/2001 16:00	01/26/2001 16:00	01/26/2001 16:00	01/26/2001 16:00
Analysis Date	01/30/2001 16:34	01/30/2001 16:09	01/30/2001 17:25	01/30/2001 17:00	01/30/2001 18:15
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	SOIL MED	SOIL MED	SOIL MED	SOIL MED	SOIL MED
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	2.28 GRAMS	2.07 GRAMS	2.24 GRAMS	2.52 GRAMS	2.22 GRAMS
% Dry	87.24	86.76	87.37	85.90	86.72

NA = Not Applicable

METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	GE-EB3-6-8 A01-0747 A1074705	GE-EB4-10-12 A01-0747 A1074708	GE-EB4-6-8 A01-0747 A1074707	GE-EB5-10-12 A01-0747 A1074710	GE-EB5-6-8 A01-0747 A1074709
Sample Date	01/24/2001 12:16	01/24/2001 10:59	01/24/2001 10:53	01/24/2001 10:33	01/24/2001 10:20
Received Date	01/24/2001 14:30	01/24/2001 14:30	01/24/2001 14:30	01/24/2001 14:30	01/24/2001 14:30
Extraction Date	01/26/2001 16:00	01/26/2001 16:00	01/26/2001 16:00	01/26/2001 16:00	01/26/2001 16:00
Analysis Date	01/30/2001 17:50	01/30/2001 19:06	01/30/2001 18:40	01/30/2001 22:02	01/30/2001 19:31
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	SOIL MED	SOIL MED	SOIL MED	SOIL MED	SOIL MED
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	2.34 GRAMS	2.28 GRAMS	2.16 GRAMS	2.23 GRAMS	2.41 GRAMS
% Dry	85.88	86.50	86.02	87.34	85.81

NA = Not Applicable

ETHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	GE-EB5-6-8 FD A01-0747 A1074709FD	GE-EB6-10-12 A01-0747 A1074712	GE-EB6-6-8 A01-0747 A1074711	GE-EB7-10-12 A01-0747 A1074714	GE-EB7-6-8 A01-0747 A1074713
mple Date	01/24/2001 10:20	01/24/2001 10:00	01/24/2001 09:46	01/24/2001 09:12	01/24/2001 09:05
ceived Date	01/24/2001 14:30	01/24/2001 14:30	01/24/2001 14:30	01/24/2001 14:30	01/24/2001 14:30
traction Date	01/26/2001 16:00	01/26/2001 16:00	01/26/2001 16:00	01/26/2001 16:00	01/26/2001 16:00
alysis Date	01/30/2001 19:56	01/30/2001 22:52	01/30/2001 22:27	01/30/2001 23:43	01/30/2001 23:17
traction HT Met?	YES	YES	YES	YES	YES
alytical HT Met?	YES	YES	YES	YES	YES
mple Matrix	SOIL MED	SOIL MED	SOIL MED	SOIL MED	SOIL MED
lution Factor	1.0	1.0	1.0	1.0	1.0
mple wt/vol	2.4 GRAMS	2.57 GRAMS	2.05 GRAMS	2.02 GRAMS	2.77 GRAMS
Dry	85.81	85.97	86.07	85.67	85.71

A = Not Applicable

METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Method Blank A01-0747 A1B0072802				
ample Date					
eceived Date					
xtraction Date	01/26/2001 16:00				
nalysis Date	01/30/2001 15:44				
xtraction HT Met?	-				
nalytical HT Met?	-				
ample Matrix	SOIL MED				
ilution Factor	1.0				
ample wt/vol	2.11 GRAMS				
Dry	100.00				

NA = Not Applicable

ETHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID / Job No & Lab Sample ID	GE-EB5-6-8 MS A01-0747 A1074709MS		GE-EB5-6-8 SD A01-0747 A1074709SD		Matrix Spike Blank A01-0747 A1B0072801			
mple Date	01/24/2001	10:20	01/24/2001	10:20				
ceived Date	01/24/2001	14:30	01/24/2001	14:30				
traction Date	01/26/2001	16:00	01/26/2001	16:00	01/26/2001	16:00		
alysis Date	01/30/2001	21:11	01/30/2001	21:37	01/30/2001	15:19		
traction HT Met?	YES		YES		-			
alytical HT Met?	YES		YES		-			
ample Matrix	SOIL	MED	SOIL	MED	SOIL	MED		
ilution Factor	1.0		1.0		1.0			
ample wt/vol	2.14	GRAMS	2.03	GRAMS	2.48	GRAMS		
Dry	85.81		85.81		100.00			

A = Not Applicable

Chain of Custody

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 05000 35851.03 | SITE NAME GE Tonawanda

SAMPLERS (PRINT/SIGNATURE) Scott McIntee

DELIVERY SERVICE: Drop off | AIRBILL NO.:

LAB STL - Buffalo

COOLER 1 of 1

PAGE 1 of 4

TESTS: PCB 8082

BOTTLE TYPE AND PRESERVATIVE: 4oz Glass 4°C

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
EB-1	1/24/01	1310	G	GE-EB1-6-8	SO	1		N1	6	8	
EB-1		1320		GE-EB1-10-12		1			10	12	
EB-2		1242		GE-EB2-6-8		1			6	8	
EB-2		1249		GE-EB2-10-12		1			10	12	
EB-3		1216		GE-EB3-6-8		1			6	8	
EB-3		1220		GE-EB3-10-12		1			10	12	
EB-4		1053		GE-EB4-6-8		1			6	8	
EB-4		1059		GE-EB4-10-12		1			10	12	
EB-5		1020		GE-EB5-6-8		1			6	8	
EB-5		1033		GE-EB5-10-12		1			10	12	
EB-6		946		GE-EB6-6-8		1			6	8	
EB-6		1000		GE-EB6-10-12		1			10	12	
EB-7		905		GE-EB7-6-8		1			6	8	

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Scott McIntee	1/24/01	1730		01/24/01	14:30
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
				1/24/01	1434

SPECIAL INSTRUCTIONS: Send results to URS Albany

AMB

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

C00017

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 05000358510.03

SITE NAME GE - TONAWANDA

SAMPLERS (PRINT/SIGNATURE) Scott McCabe

LAB STL - BUFFALO

COOLER 1 of 1

PAGE 2 of 4

DELIVERY SERVICE: Drop off AIRBILL NO.: —

TESTS: PCB 8082

BOTTLE TYPE AND PRESERVATIVE: 4oz glass 4°C

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO # (IRPIMS ONLY)
EB-7	1/24/01	912	G	GE-EB7-10-12	SO	1		N1	10	12	
EB-5		1020		GE-EB5-6-8 MS			MATRIX SPIKE	MS1	6	8	
EB-5		1020		GE-EB5-6-8 MSD			MATRIX SPIKE DUP.	SD1	6	8	
EB-5		1020		GE-EB5-6-8 DUP			DUPLICATE	FR1	6	8	

MATRIX CODES						
	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES				
	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	1/24/01	1430		1/24/01	1430
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
				1/24/01	1430

SPECIAL INSTRUCTIONS: Send Results to URS ALBANY

AMB

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

C00018