

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

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.

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.

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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

The Hum to

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 <sup>1</sup> (feet)	Distance East <sup>2</sup> (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

			Boring	Boring ID / Depth (feet) Below Ground/ Date Collected	ow Ground/ Date C	ollected		
	EBI	EB1	EB2	EB2	EB3	EB3	EB4	EB4
ameter	8-9	10-12	8-9	10-12	8-9	10-12	8-9	10-12
	1/24/01	1/24/01	1/24/01	1/24/01	1/24/01	1/24/01	1/24/01	1/24/01
roclor 1016	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
roclor 1221	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
troclor 1232	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
roclor 1242	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
roclor 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
otal 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.

# SUMMARY OF ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS

# GENERAL ELECTRIC COMPANY TONAWANDA, NEW YORK

			Boring ID / Depth		feet) Below Ground/ Date Collected		
	EBS	EBS-Dup	EBS	EB6	EB6	EB7	EB7
Parameter	8-9	8-9	10-12	8-9	10-12	6-8	10-12
	1/24/01	1/24/01	1/24/01	1/24/01	1/24/01	1/24/01	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**

- BORING (URS, 2000) FB-1◎

- STORM SEWER

- SANITARY SEWER

- FLOOR DRAIN

- STORM MANHOLE

\_EXTENT OF POTENTIAL EXCAVATION

GRAPHIC SCALE (IN FEET) 100

NOTE: ALL SAMPLING LOCATIONS ARE APPROXIMATE.

**ORIGINAL** BUILDING 1969

0 0

EB-1-10

EB-2-0 EB-3

EB-4-

EB-6-

EB-7-

EB-5 ₪

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

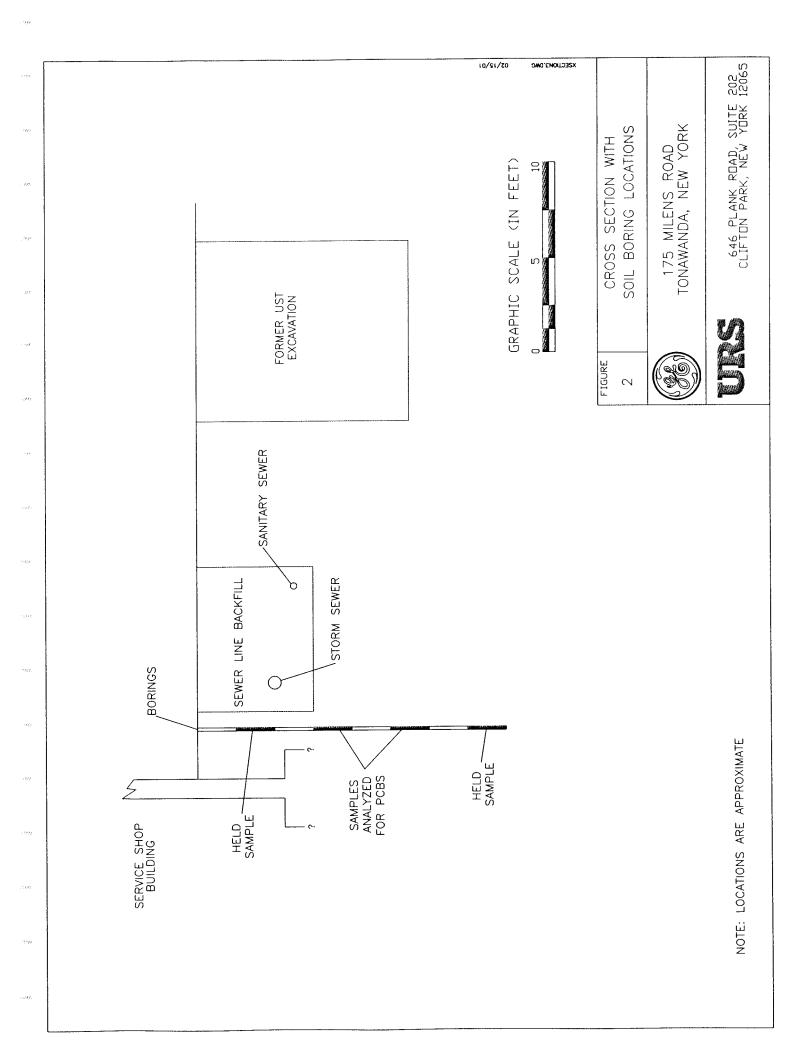
SUPPLEMENTAL INVESTIGATION SAMPLING LOCATIONS



175 MILENS ROAD TONAWANDA, NEW YORK



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



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, P.E.

Regional Solid & Hazardous Materials Engineer

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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

1* Macro 100% Brown Reddish Brown Gray Loose Silt some organ  5 Macro 100% Brown Gray Loose Silt some organ  100% Brown Hard Silty Clay, trace gravel, few veri desiccation cra  100% 4* Macro 100%	DATE STARTED: DATE FINISHED: DRILLER: GEOLOGIST: REVIEWED BY: DN MATERIAL ESCRIPTION Tace gravel, sand and SF)  CS COATSE SAND AND TIME CAI, light gray		4/01 Oonavin IcCabe olmera	auer ARKS Moist
CLIENT:   General Electric Corporation   BORING CONTRACTOR:   Zebra	JOB NO.:  BORING LOCATION:  GROUND ELEVATION:  DATE STARTED:  DATE FINISHED:  DRILLER:  GEOLOGIST:  REVIEWED BY:  DN  MATERIAL  ESCRIPTION  acce gravel, sand and  SF)  CS  coarse sand and fine cal, light gray	05000 01/24 01/24 Chris E Scott M Mark C	4/01 4/01 Donavin IcCabe olmera REM/ PID	auer ARKS Moist
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25				
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(2.0-4.0', 6.0-8.0', 10.0-12.0', and 14.0-16.0').	PROJECT NO.			
(2.0-4.0, 0.0-0.0, 10.0-12.0, and 14.0-10.0).	PROJECT NO. BORING NO.	EB-1		

					orpora								
										BORING NO:	EB-2		
CT:	GE A	Apparati	ıs Serv	ice S	hop - To	nawanda	, NY			SHEET:	1 of 1		
										JOB NO.:	0500	00358	51.03
			Zebra				-			BORING LOCATION:			
DWATER:	Not e	encounte	red			CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION	<b>V</b> :		
				PE I	TYPE					DATE STARTED:	01/2	4/01	
							2"			ļ			
			<u> </u>					· · · · ·					n
						CKET PE	NETROME	ER RE	ADING	·			
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		0,		ws	RFC%		CONSIST	1				REN	IARKS
STRATA	NO	TYPE	l .	1		COLOR					uscs		Mois
	140.	111 -	I LIK		110270			Fill: Si			10000		mois
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			$\vdash$			C==::	Longs	Cil4 4	no cond ===	Lelay			
<b>****</b>	2*	Macro	$\vdash \vdash \vdash$		100%			<del> </del>				0	
NEEN.			$\vdash$				l Hard	1 1	•		CL		
MINE.						Brown		1					1
IXIXI.			$\vdash \vdash$					desicca	ation cracks	(>4.5 TSF)			
111111	3*	Macro	igsquare		100%							0	
XXXX													
SIIS.													]
MASS													
VXVIX	4*	Maoro			100%							0	
BKD.	4	IVIACIO			100 /6							0	
NYN.						<b>V</b>	₩			•	W		W
									Boring Con	npleted at 16.0' bgs			
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nts: Borina	advar	nced with	h GH-4	1 Geo	probe to	16.0' bas	using a 4-foo	t Iona.		PROJECT NO.	050003	5851	03
										BORING NO.	EB-2	3001,	
aer wacro i													
	STRATA  STRATA  STRATA	STRATA NO.  1*  2*  and a sering advantage of the seri	SCONTRACTOR: DWATER: Not encounted TIME LEVEL  STRATA NO. TYPE  1* Macro  2* Macro  4* Macro	SCONTRACTOR: Zebra  DWATER: Not encountered  TIME LEVEL TYPE  SAMPLE  STRATA NO. TYPE PER  1* Macro  2* Macro  4* Macro  4* Macro  1* Ma	General Electric Corporal   Scontractor   Zebra	General Electric Corporation   GCONTRACTOR: Zebra	General Electric Corporation  CONTRACTOR: Zebra  DWATER: Not encountered TYPE  TIME LEVEL TYPE DIA.  WT. FALL  POCKET PE  SAMPLE  STRATA NO. TYPE PER 6" ROD% COLOR  1* Macro  2* Macro  100%  A* Macro  100%	General Electric Corporation GONTRACTOR: Zebra  DWATER: Not encountered TYPE TYPE MacroCore  DIAL 2" WT. Direct Push FALL  POCKET PENETROMET  SAMPLE  STRATA NO. TYPE PER 6"  Nacro  1* Macro  1* Macro  1* Macro  100%  Gray Loose Reddish Brown  3* Macro  100%  4* Macro  100%  A* Macr	General Electric Corporation   GCONTRACTOR: Zebra	General Electric Corporation GONTRACTOR: Zebra  DWATER: Not encountered	General Electric Corporation  GONTRACTOR: Zebra  DWATER: Not encountered  CAS. SAMPLER  CORE TUBE GROUND ELEVATION  TIME LEVEL TYPE TYPE MacroCore  DATE STARTED:  DIA 2" DATE FINSHED:  DIA 2" DATE FINSHED:  DRILLER:  GEOLOGIST:  FALL	General Electric Corporation	General Electric Corporation

				UR	s c	orpora	ation				GEOPROBE	LOC	3	
					_						BORING NO:	EB-3		
PROJE	CT:	GE A	nnarati	ıs Ser	vice S	Shop - To	nawanda	. NY			SHEET:	1 of 1		
CLIENT			eral Elec								JOB NO.:	0500	003585	51.03
	G CONTRA			Zebra							BORING LOCATION:			
	IDWATER:			red			CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION	:		
DATE	TIME		VEL	TY	PE	TYPE	<u> </u>	MacroCore			DATE STARTED:	01/2	4/01	
DATE				<u> </u>		DIA.		2"			DATE FINISHED:	01/2	4/01	
						WT.		Direct Push			DRILLER:	Chris [	Donavii	n
						FALL					GEOLOGIST:	Scott N	/lcCab	9
		<del>-</del>				* PC	CKET PE	NETROME	ER RE	ADING	REVIEWED BY:	Mark C	Colmer	auer
			SAME	LE					DES	SCRIPTION	l			
DEPTH				BLC	ows	REC%		CONSIST		N	IATERIAL		REM	ARKS
FEET	STRATA	NO.	TYPE	PEF	₹ 6"	ROD%	COLOR	HARD		DE	SCRIPTION	USCS	PID	Moist
							Dark	Stiff	Fill: Si	Ity Clay, tra	ce gravel, sand and			moist
		1*	Macro			100%	Brown		concre	te (2.0-2.5	TSF)		0	
	$\bowtie$	'	Wacio			100%								
								🔻						
5	<b> </b>							Very stiff						
		2*	Macro			100%							0	
		-	IVIACIO			] 100%	₩	₩			<u> </u>			
	MILL	L					Reddish	Hard	Silty cl	ay, trace co	arse sand and fine	CL		
	MIKI					_	Brown		1		al, light gray			
10	XXX	3*	Macro			100%			desicc	ation cracks	s (>4.5 TSF)		0	
	11811	ľ	IVIACIO			] 100%								
	BILLS													
	SIXI					]								
	AllY!	4*	Macro		<u> </u>	100%							0	
15	RINK	7	IVIACIO			] ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1							
	WXII.						V	W.			<u> </u>	<b>A</b>		V
										Boring Cor	mpleted at 16.0' bgs			
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								using a 4-fo			PROJECT NO.	05000	35851.	.03
							d for PCB	(8082 ) anai	yses		BORING NO.	EB-3		
(2.0-4.0	)', 6.0-8.0',	10.0-1	2.0', and	1 14.0-	16.0')	<u> </u>								

BORING NO: EB-4					UR.	S C	orpora	ation				GEOPROBI	LOG	;	
DB NO.:   OS00035851.03							-					BORING NO:	EB-4		
DESCRIPTION	PROJEC	CT:	GE A	Apparati	ıs Sen	vice S	hop - To	nawanda	NY			SHEET:	1 of 1		
BORING CONTRACTOR: Zobra   SAMPLER   CAS.												JOB NO.:	0500	03585	51.03
DATE   TIME   LEVEL   TYPE   DIA   2"   DATE STARTED: 012401												BORING LOCATION:			
DATE   TIME   LEVEL   TYPE   DIAL   2"   DATE FINISHED: 01/24/01	GROUN	DWATER:	Not e	encounte	red			CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION	:		-
DIA. 2° DATE FINISHED: 01/24/01 WT. Direct Push DRILLER: Chris Denavin FALL GEOLOGIST: Scott McCabe *POCKET PENETROMETER READING REVIEWED BY: Mark Colmerauer BETT STRATA NO. TYPE PER 6° ROD%. COLOR HARD DESCRIPTION 1° Macro DESCRIPTION USCS PID Molecular Penetral Concrete (2.0-3.5 TSF)  1° Macro DISCRIPTION DESCRIPTION USCS PID Molecular Penetral Concrete (2.0-3.5 TSF)  2° Macro DISCRIPTION DESCRIPTION USCS PID Molecular Penetral Concrete (2.0-3.5 TSF)  10						PF	TYPE		MacroCore			DATE STARTED:	01/24	1/01	
WT.   Direct Push   GEOLOGIST:   Scott McCabe	DATE											<del>                                     </del>	01/24	1/01	
FALL SAMPLE SAMPLE DEPTH STRATA NO. TYPE PRS* 1 Macro 1 100%									Direct Push			DRILLER:	Chris E	onavi	n
POCKET PENETROMETER READING												<del></del>			
DEPTH   STRATA   NO.   TYPE   PER 6"   ROD%   COLOR   HARD   DESCRIPTION   USCS   PID   Mol						-		CKET PE	NETROMET	ER RE	ADING		Mark C	olmer	auer
DEPTH   STRATA   NO   TYPE   PER 6"   ROD%   COLOR   HARD   DESCRIPTION   USCS   PID   Mol			L	SAME	LE					DES	CRIPTION	!			
Type	DEPTH			1		ws	REC%		CONSIST					REM	ARKS
11   Macro		1	NO	TYPE	1			COLOR					uscs		
1* Macro			110							Fill: Si					mois
1							1		Oiiii						
Stiff Stiff Silty day, trace coarse sand and fine gravel, few vertical, light grav desircation cracks (>4.5 TSF)  100%  A* Macro 100%  Boring Completed at 16.0' bgs  Boring Completed at 16.0' bgs  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 05000358851.03  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 05000358851.03  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 05000358851.03  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 05000358851.03  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 05000358851.03  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 05000358851.03  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 05000358851.03			1*	Macro			100%		Verv			ĺ		U	
8 Pring Completed at 16.0' bgs  2 Macro 100% Proving Reddish Brown desiccation cracks (>4.5 TSF)  3 Macro 100% Proving Reddish Brown desiccation cracks (>4.5 TSF)  4 Macro 100% Proving Reddish Brown desiccation cracks (>4.5 TSF)  8 Boring Completed at 16.0' bgs  20 Proving Reddish Brown desiccation cracks (>4.5 TSF)  8 Boring Completed at 16.0' bgs  8 Boring Co							1	<b>*</b>	,			•			
2* Macro	- 5	ŤŤŜĨŢ		<b></b>			<del> </del>	Reddish		Silty cla	ay, trace co	arse sand and fine	CL		
2 Macro 100% desiccation cracks (>4.5 TSF)  10 3* Macro 100% 0  4* Macro 100% Boring Completed at 16.0' bgs  20 20 35  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03  2" diameter Macro Core sampler. * Samples submitted for PCB (8082) analyses BORING NO. EB-4		XXXX		1			1			1 1				_	
100%  4* Macro 100%  Boring Completed at 16.0' bgs  20  25  25  33  30  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03  2" diameter Macro Core sampler. * Samples submitted for PCB (8082) analyses  BORING NO. EB-4		181181	2*	Macro			100%							0	
35 Macro 100%  4* Macro 100%  Boring Completed at 16.0' bgs  20  20  30  30  35  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long. PROJECT NO. 0500035851.03  2* diameter Macro Core sampler. * Samples submitted for PCB (8082) analyses BORING NO. EB-4		11841		<u> </u>				1							
35 Macro 100%  4* Macro 100%  Boring Completed at 16.0' bgs  20  20  30  30  35  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long. PROJECT NO. 0500035851.03  2* diameter Macro Core sampler. * Samples submitted for PCB (8082) analyses BORING NO. EB-4		KIK						1							1
35 Macro 100%  4* Macro 100%  Boring Completed at 16.0' bgs  20  20  30  30  35  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long. PROJECT NO. 0500035851.03  2* diameter Macro Core sampler. * Samples submitted for PCB (8082) analyses BORING NO. EB-4	10	BIX					1								
Boring Completed at 16.0' bgs  20  25  35  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03  2° diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses  BORING NO. EB-4	10	11811	3*	Macro			100%							0	
Boring Completed at 16.0' bgs  20  25  35  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03  2° diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses  BORING NO. EB-4		18/18/					1								
Boring Completed at 16.0' bgs  20  25  35  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03  2° diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses  BORING NO. EB-4		USK.		-				1					.		
Boring Completed at 16.0' bgs  20  25  35  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03  2° diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses  BORING NO. EB-4		1881					1								
Boring Completed at 16.0' bgs  20  25  35  Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03  2° diameter Macro Core sampler. * Samples submitted for PCB (8082) analyses  BORING NO. EB-4	45	8//8/	4*	Macro			100%						:	0	
Boring Completed at 16.0' bgs	15	1811	l				-		W.				4		
20 25 30 Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03 2" diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses  BORING NO. EB-4		11411	<u> </u>					<b>V</b>	<b>V</b>		D : 0	1 1 1 - 1 4 C O' b	<del>  •</del>		
25 30 Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03 2" diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses BORING NO. EB-4		-									Boring Cor	npieted at 16.0 bgs			
25 30 Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03 2" diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses BORING NO. EB-4		-		1	<u> </u>		-								1
25 30 Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03 2" diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses BORING NO. EB-4	- 00	-					-						Ì		
30 30 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  PROJECT NO. 0500035851.03 EB-4	20	ł					-								
30 30 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  PROJECT NO. 0500035851.03 EB-4		-					-								
30 30 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  PROJECT NO. 0500035851.03 EB-4		1			$\vdash$		-	1							1
30 30 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  PROJECT NO. 0500035851.03 EB-4		-	1		$\vdash \vdash$		1								
30 30 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  PROJECT NO. 0500035851.03 EB-4	0.5	-					1								1
Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03 2' diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses BORING NO. EB-4	25	1					1								
Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03 2' diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses BORING NO. EB-4		-	1		ļ		1	1						<del> </del>	ł
Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03 2' diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses BORING NO. EB-4		1					-								
Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03 2' diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses BORING NO. EB-4		-					-								1
Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03 2' diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses BORING NO. EB-4							-								
Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03 2" diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses BORING NO. EB-4	30						1							ļ	1
Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03 2" diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses BORING NO. EB-4		1			ļ		1								
Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03 2" diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses BORING NO. EB-4		1							<u> </u>					ļ	1
Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03 2" diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses BORING NO. EB-4													1		
Comments: Boring advanced with GH-41 Geoprobe to 16.0' bgs using a 4-foot long, PROJECT NO. 0500035851.03 2" diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses BORING NO. EB-4															-
2" diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses BORING NO. EB-4	35	]													
2" diameter Macro Core sampler. * Samples submitted for PCB (8082 ) analyses BORING NO. EB-4		<u> </u>						<u> </u>			<u></u>				<u> </u>
	Comme	nts: Boring	adva	nced wit	h GH-4	11 Ge	oprobe to	16.0' bgs	using a 4-foo	t long,		<del></del>	050003	35851.	03
(2.0-4.0', 6.0-8.0', 10.0-12.0', and 14.0-16.0').	2" diame	eter Macro	Core	sampler	. * Sar	mples	submitte	d for PCB	(8082) analy	ses		BORING NO.	EB-4		
· · · · · · · · · · · · · · · · · · ·	(2.0-4.0	', 6.0-8.0', 1	0.0-1	2.0', and	14.0-	16.0').									

				UR.	s c	orpora	ation				GEOPROBE	LOC	;	
						•					BORING NO:	EB-5		
PROJEC	CT:	GE A	pparatu	s Sen	vice S	hop - To	nawanda,	NY			SHEET:	1 of 1		
CLIENT			ral Elec								JOB NO.:	0500	0358	51.03
	CONTRA			Zebra							BORING LOCATION:			
	DWATER:			red			CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:			
DATE	TIME		VEL	TY	PE	TYPE		MacroCore			DATE STARTED:	01/24	4/01	
						DIA.		2"			DATE FINISHED:	01/2	4/01	
						WT.		Direct Push			DRILLER:	Chris E	)onavi	n
						FALL					GEOLOGIST:	Scott N	1cCab	е
						* PC	CKET PE	NETROMET	ER RE	ADING	REVIEWED BY:	Mark C	olmer	auer
			SAMP	LE					DES	CRIPTION				
DEPTH				BLC	ws	REC%		CONSIST		tv.	IATERIAL			ARKS
FEET	STRATA	NO.	TYPE	PEF	२ 6"	ROD%	COLOR	HARD		DE	SCRIPTION	USCS	PID	Mois
							Brown	Stiff			ce gravel, sand and			mois
		1*	Macro			100%			concre	te (2.0-3.75	5 TSF)		0	
		' '	Madi			]		Very						
	$\times\!\!\times\!\!\times\!\!\times$					ļ	₩	Stiff				1		1
5	1141					1	Reddish	Hard	1		earse sand and fine	CL		
	(BER)	2*	Macro			100%	Brown				al, light gray		0	
	11811				<u> </u>	1			desicc	ation crack	s (>4.5 TSF)			
	131461					ļ							-	-
	BUR					1								
10	(ESSE)	3*	Масго		<u> </u>	100%							0	
	BKI.	Ť				1				ļ				
	XXX				L			*					<u> </u>	- 1
	MAG					4		Very			-(3.25 to 2.25 TSF)			
	21121	4*	Macro			100%		Stiff					0	
15	11811	•				1							ŀ	$\perp$
	11811					ļ	¥	*		<u> </u>		₩	<u> </u>	A
						_				Boring Co	mpleted at 16.0' bgs			
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20				<u> </u>	<u> </u>	4							-	-
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	-		1			4								
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	-				ŀ								-	1
	-													
	1	-												1
35	4													
	<u> </u>	L	<u> </u>	<u> </u>	14.0	1	10.011	in= + 4 f	nt la===		PROJECT NO.	05000	35054	03
								using a 4-fo			BORING NO.	EB-5	J0001	.03
							a for PCB	(8082) anal	yses		BORING NO.			~
∠.U-4.0	', 6.0-8.0 <mark>'</mark> ,	10.0-1	2.0°, and	114.0-	10.0	l								

				UR	S C	orpora	ation				GEOPROB	LOC	<u> </u>	
						•					BORING NO:	EB-6		
ROJE	CT:	GE A	Apparatu	ıs Ser	vice S	hop - To	nawanda	, NY			SHEET:	1 of 1		
CLIENT			eral Elec								JOB NO.:	0500	00358	51.03
	CONTRA			Zebra							BORING LOCATION:			
	IDWATER:			red			CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION	:		
DATE	TIME	LE	EVEL	TY	PE	TYPE		MacroCore			DATE STARTED:	01/2	4/01	
						DIA.		2"			DATE FINISHED:	01/2	4/01	
						WT.		Direct Push			DRILLER:	Chris E	Onavi	n
						FALL					GEOLOGIST:	Scott N	1cCab	е
		1				* P0	CKET PE	NETROMET	ER RE	ADING	REVIEWED BY:	Mark C	Colmer	auer
			SAME	LE					DES	CRIPTIO	V			
DEPTH				BLC	)WS	REC%		CONSIST			MATERIAL		REN	IARKS
FEET	STRATA	NO.	TYPE	PEF	र 6"	ROD%	COLOR	HARD		DE	SCRIPTION	uscs	PID	Mois
							Brown	Stiff	Fill: Si	Ity Clay, tra	ace gravel, sand and		ļ	mois
		1*	Macro			100%	Reddish	Very	concre	te (2.0-3.7	5 TSF)		0	
		'	Macro			] 100%	Brown	stiff					_	
							₩	*	3.5-4.0	' Fine to c	oarse sand			.
5	144/1						Reddish	Hard	1 1	•	parse sand and fine	CL		
	181391	2*	Macro			100%	Brown		"		al, light gray		0	
	KKK	<b>'</b>	IVIACIO			100%			desicc	ation crack	s (>4.5 TSF)			
	11/8/													
	13/13/					}								
10	1813	3*	Macro			100%						i l	0	1
	(7/87/	<b>.</b>	IVIACIO			] 100%							•	
	18/18	1						W						1
	NXV.						]	Very			-(3.75 to 2.50 TSF)			
	8/18/	4*	Macro			100%		Stiff					0	
15	SHE	] "	WIACIO			100%								
	WXII.						*	A		*		₩		A
										Boring Co	mpleted at 16.0' bgs	1		1
	]	1				]								
		-	1			]								
20	]	1												
						]						ļ		
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25	]													
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	1			<u></u>	ļ	1								
	]													4
	1													
	]													4
35	]					-								
	<u> </u>			<u> </u>		<u> </u>							<u> </u>	<u></u>
Comme	nts: Boring	adva	nced wit	h GH-	41 Ge	oprobe to	16.0' bgs	using a 4-foo	t long,		PROJECT NO.	05000	35851	.03
2" diam	eter Macro	Core	sampler	. * Sa	mples	submitte	d for PCB	(8082) analy	yses		BORING NO.	EB-6		
2.0-4.0	', 6.0-8.0', <sup>-</sup>	10.0-1	2.0', and	14.0-	16.0')									

		<u></u>		UR	s C	orpora	ation				GEOPROBE	LOC	)	
											BORING NO:	EB-7		
		OF 4		- Con	ioo S	hon To	nawanda,	NY			SHEET:	1 of 1		
PROJECT:			ral Elec				ilawanua,				JOB NO.:	0500	0358	51.03
CLIENT:				Zebra		ation					BORING LOCATION:			
BORING CON						1	CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION	<u> </u>		
GROUNDWA1					-	TVDE	CAS.	MacroCore	OUNL	1002	DATE STARTED:	01/2	4/01	
DATE TIN	ME	LE	VEL	TY	PE	TYPE		2"			DATE FINISHED:	01/2		
						DIA.		Direct Push	<del> </del>	<u> </u>	DRILLER:	Chris E		n
						WT. FALL		Direct Fusii	<del> </del>		GEOLOGIST:	Scott N		
							OCKET PE	NETROMET	FR RF	ADING	REVIEWED BY:	Mark C		
			CANAD				CKLITE	THE THORNE		SCRIPTION				
DEDT.			SAMP	BLC	NA/S	REC%		CONSIST			ATERIAL		REN	IARKS
DEPTH	АТА	NO	TYPE	PEF		ROD%	COLOR	HARD			SCRIPTION	uscs		Moist
FEET STR.	$\hat{x}\hat{x}$	NO.	IIFL	, ,		IXOD /	Brown	Stiff	Fill: Si		ce gravel, sand and			moist
	$\times\!\!\!\times\!$					-	Reddish	Very	1	te (2.0-3.75	_		0	1 1
<del></del>	$\bowtie$	1*	Macro			100%	Brown	stiff			ĺ		"	*
	$\otimes\!$				_	1	J	4	1		•			wet
<u> </u>	$\bowtie$			-	<del>                                     </del>	<del>                                     </del>	Gray	Loose	Fine lir	mestone gra	avel			] ₩
<u> </u>	<b>XX</b>			<u> </u>	<u> </u>	1	Reddish	<del></del>	Silty cl	ay, trace co	arse sand and fine	CL	0	moist
188	W.	2*	Macro	<b></b>	<del>                                     </del>	100%	Brown		1	, few vertica			"	
	SEL					1			desicc	ation cracks	s (>4.5 TSF)		Ì	
	131		<del> </del> -				1					1		1 1
10	XX.					1							0	
		3*	Macro			100%							"	
	181		1	<u> </u>		1								
	X			<del>                                     </del>		<del> </del>	1 1							1
	OV.	l		<u> </u>	<del>                                     </del>	1								
15	N.	4*	Macro	-	╁	100%							0	
- 188	110	1		<u> </u>	1	1		<b>W</b>			*	<b>V</b>		4
777	777.			-	$ar{t}$	<b>-</b>		\	┼	Boring Cor	mpleted at 16.0' bgs			
<b></b>			İ		<del>                                     </del>	1				20,3		1	1	
<del></del>					$\vdash$	┪		1						1
20				-	<b>†</b>	1							1	
<del></del>				-	<del> </del>	1	1					1		1
		1	1	-	<del>                                     </del>	1								
			ţ		<del>                                     </del>	1								
					†	7	1							_
25		1	1		1	1								
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					<b>—</b>	7								
					1	1								
					<del> </del>	1								
30					<b>†</b>	7								_j
			1	-	1	1								
<del>                                     </del>					$\vdash$	1								
							1							
														_
35														
				1		1						ŀ	1_	
Comments: E	Anring	l advo	nced wi	th GH	41 G	eoprobe t	o 16.0' bas	s using a 4-fo	ot lona.		PROJECT NO.	05000	3585	1.03
2" diameter N	Macro	Core	samnla	r * S:	amnle	s submitte	ed for PCF	3 (8082 ) ana	lyses		BORING NO.	EB-7		
(2.0-4.0', 6.0-								()	<u> </u>					
Note: Char	0.0	ater f	ound on	nutsid	le of s	nil cores	(4 0-16 0')	originating fr	rom 4.0-	-5.0'.				



February 2, 2001

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

RE: Analytical Results

Dear Mr. Colmerauer:

STL Buffalo

10 Hazelwood Drive Suite 106 Amherst, NY 14228

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

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 L. Haag Program Manager

Juny Haag

ALH/ekn Enclosure I.D. #A01-0747 #NY0A8653

This report contains	pag	ges which are	individually	numbered.
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# ANALYTICAL RESULTS

STL Buffalo

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.

<sup>&</sup>quot;The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety."

## **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 idata 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

# Sämple Data Package

STL Buffalo

Lab ID		GE-EB1-10-12 A01-0747 01/24/2001	A1074702	GE-EB1-6-8 A01-0747 01/24/2001 Sample	A1074701 Reporting	GE-EB2-10-12 A01-0747 01/24/2001 Sample	A1074704 Reporting	GE-EB2-6-8 A01-0747 01/24/2001 Sample	A1074703
	Units	Value	Limit	Value	Limit	Value	Limit	Value	Limit
oclor 1016 oclor 1221 oclor 1232 oclor 1242 oclor 1248 oclor 1250 trachloro-m-xylene cachlorobiphenyl	MG/KG MG/KG MG/KG MG/KG MG/KG WG/KG WG/KG	ON ON ON ON ON ON ON ON ON ON ON ON ON O	0.50 0.50 0.50 0.50 0.50 0.50 0.50 32-148 36-153	ON ON ON ON ON ON ON ON ON ON ON ON ON O	0.50 0.50 0.50 0.50 0.50 0.50 0.50 32-148 36-153	8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	0.50 0.50 0.50 0.50 0.50 0.50 0.50 32-148 36-153	5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50

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GE Tonawanda PCB Testing METHOD 8082 - POLYCHLORINATED BIPHENYLS

ate: 02/02/2001 ime: 15:30:44

Date         01/24/2001         01/24/2001         01/24/2001           Analyte         Units         Value         Limit         Value         Reporting         Sample         Reporting           1016         MG/KG         ND         0.50         ND         0.50         ND         0.50           1231         MG/KG         ND         0.50         ND         0.50         ND         0.50           1242         MG/KG         ND         0.50         ND         0.50         ND         0.50           1254         MG/KG         ND         0.50         ND         0.50         ND         0.50           1254         MG/KG         ND         0.50         ND         0.50         ND         0.50           1254         MG/KG         ND         0.50         ND         0.50         ND         0.50     <	lient ID		GE-EB3-10-12 A01-0747	A1074706	GE-EB3-6-8 A01-0747	A1074705	GE-EB4-10-12 A01-0747	A1074708	GE-EB4-6-8 A01-0747	A1074707
Sample   Sample   Reporting   Sample   Reporting   Sample   Reporting   Sample   Reporting   Sample   Reporting   Sample   Reporting   Sample   Reporting   Sample   Reporting   Sample   Reporting   Sample   Reporting   Sample   Reporting   Sample   Reporting   Sample   Reporting   Reporting   Sample   Reporting   Sample   Reporting   Sample   Reporting   Reporting   Reporting   Reporting   Reporting   Reporting   Sample   Reporting			01/24/2001		01/24/2001		01/24/2001		11002/52/10	
MG/KG   ND   0.50   ND   0.5	Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
MG/KG   ND   0.50   ND   0.50   ND   0.50   ND   ND   ND   ND   ND   ND   ND   N	, 404	0 // OR	CX	0.50	QN	0.50	QN	0.50	ON	0.50
MG/KG   ND   0.50   ND   0.5	r 1016 1001	27/25	2 5	0.50	2	0.50	9	0.50	9	05.0
MG/KG   ND   0.50   ND   0.5	1221	2 2 2	2 5	0.50	Q	0.50	S	0.50	9	0.50
MG/KG   ND   0.50   ND   0.5	1232	0 / S / S / S / S / S / S / S / S / S /	2 5	0.50	QN.	0.50	2	0.50	2	0.50
ROGATE(S)         ND         0.50 ND         ND 0.50 ND         ND 0.50 ND         ND 0.50 ND         ND 0.50 ND           ROGATE(S)         %         117 32-148 110 32-148 117 36-153 98 36-153 36-153         110 32-148 110 36-153 109 36-153 96         110 36-153 109 36-153 96         96	1242	36/NG	2 5	0.50	2	0.50	Q.	0.50	2	0.50
ROGATE(S)         ND         0.50         ND         0.50         ND         0.50         ND           ROGATE(S)         #G/KG         ND         0.50         ND         104         <	1248	36/KG	2 5	0.50	2	0.50	9	0.50	Q.	0.50
ROGATE(S)         ROGATE(S)         117         32-148         110         32-148         104           1-xylene         %         106         36-153         98         36-153         96           henyl         %         109         36-153         96	- 1254 - 1260	MG/KG	<u> </u>	0.50	Q	0.50	Q.	0.50	QN	0.50
%     106     36-153     98     36-153     96       %     100     36-153     98	SURROGATE(S)		117	47-17.R	110	32-148	117	32-148	104	32-148
	hloro-m-xylene lorobiphenyl	× ×	106	36-153	86	36-153	109	36-153	96	36-153

STL Buffalo

A1074712	Reporting Limit	0.50 0.50 0.50 0.50 0.50 0.50 0.50 32-148 36-153
GE-EB6-10-12 A01-0747 01/24/2001	Sample Value	ON ON ON ON ON ON ON ON ON ON ON ON ON O
A1074709FD	Reporting Limit	0.50 0.50 0.50 0.50 0.50 0.50 0.50 32-148 36-153
GE-EB5-6-8 FD A01-0747 01/24/2001	Sample Value	200 N N N N N N N N N N N N N N N N N N
A1074709	Reporting Limit	0.50 0.50 0.50 0.50 0.50 0.50 0.50 32-148
GE-EB5-6-8 A01-0747 01/24/2001	Sample Value	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
A1074710	Reporting Limit	0.50 0.50 0.50 0.50 0.50 0.50 0.50 32-148
GE-EB5-10-12 A01-0747 01/24/2001	Sample Value	ND ND ND ND ND ND ND 104
	Units	MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG
Client ID Job No Sample Date	Analyte	roclor 1016 roclor 1221 roclor 1232 roclor 1242 roclor 1248 roclor 1260 SURROGATE(S) etrachloro-m-xylene ecachlorobiphenyl

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GE Tonawanda PCB Testing
METHOD 8082 - POLYCHLORINATED BIPHENYLS

)ate: 02/02/2001 Fime: 15:30:44

Client ID Job No Sample Date	_	GE-EB6-6-8 A01-0747 01/24/2001	A1074711	GE-EB7-10-12 A01-0747 01/24/2001	A1074714	GE-EB7-6-8 A01-0747 01/24/2001	A1074713		
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
roci or 1016	MG/KG	QN	0.50	QN	0.50	QN	0.50	Y.	
roctor 1221	MG/KG	QV.	0.50	<b>2</b> !	0.50	2 9	0.50	Υ « Υ «	
1222	MG/KG	2	0.50	2	05.0	2	0.50	X :	
100101 1525	MG/KG	9	0.50	9	0.50	2	05.0	A'A	
1.00101 1242	MG/KG	9	0.50	S	0.50	2	0.50	NA A	
F0C10F 1240	) Y (2) M	2	0.50	S	0.50	9	0.50	٧X	
, roctor 1260 , roctor 1260	MG/KG	9	0.50	QN	0.50	1.5	0.50	ΝΑ	
SURROGATE(S)	7	108	32-148	114	32-148	106	32-148	ΑN	
etrachioro-m-xytene ecachlorobiphenyl	° ×	106	36-153	112	36-153	109	36-153	ΑN	_
		_							

# Chrondogy:and QQ Simmary:Package

lient ID Job No Sample Date		Method Blank A01-0747	A180072802						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
octor 1016 octor 1221 roctor 1232 roctor 1242 roctor 1248 roctor 1254	MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG	2 2 2 2 2 2 2	0.50 0.50 0.50 0.50 0.50 0.50	A A A A A A A A A A A A A A A A A A A		X X X X X X X X X X X X X X X X X X X		4 4 4 4 4 4 4 X X X X X X X X X X X X X	
SURROGATE(S)——— etrachloro-m-xylene ecachlorobiphenyl	**	116 97	32-148 36-153	NA NA		A A A		N N N N	

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GE Tonawanda PCB Testing
METHOD 8082 - POLYCHLORINATED BIPHENYLS

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)ate: 02/02/2001 ime: 15:30:44	:/49;	un un	METHO	GE Tonawanda PCB Testing METHOD 8082 - POLYCHLORINATED BIPHENYLS	學 Testing INATED BIPHENYLS	unn unn		regen.	Rept
lient ID Lab ID sample Date		GE-EB5-6-8 MS A01-0747 01/24/2001	A1074709MS	GE-EB5-6-8 SD A01-0747 01/24/2001	A1074709SD	Matrix Spike Blank A01-0747	Blank A1B0072801		
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
octor 1016 octor 1221 octor 1232 octor 1242 octor 1248 octor 1248	MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG	88888.8	0.50 0.50 0.50 0.50 0.50 0.50 0.50	N N N N N N S . 7	0.50 0.50 0.50 0.50 0.50 0.50	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.50 0.50 0.50 0.50 0.50 0.50	4 4 4 4 4 4 4	
SURROGATE(S)—etrachloro-m-xylene ecachlorobiphenyl	**	110	32-148 36-153	111	32-148 36-153	120 96	32-148 36-153	N A A	

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ite : 02/02/2001 15:30:53	en	966 1986	SAMPLE	U n J JAMES L HJORE SAMPLE DATE 01/24/2001	an an	ign No	un.		×288	ne	Re, ₩N036	*N036
ent Sample ID: GE-E85-6-8 Lab Sample ID: A1074709	GE-EB5-6-8 MS A1074709MS		GE-EB5-6-8 SD A1074709SD					100				
			Conce	Concentration	:		%	% Recovery			-	6
Analyte	Units of Measure	Sample	Matrix Spike	Matrix Spike Spike Duplicate	Spike MS	Spike Amount MSD	MS	MSD	Avg	RPD	RPD REC.	REC.
THOD 8082 - POLYCHLORINATED BIPHENYLS Aroclor 1254	MG/KG	0	3.09	3.67	2.72	2.87	114 128		121	121 12	30.0	30.0 52-153

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ate : 02/02/2001 15:30:53	ore.	ilen	mp   mp   mp   mp   mp   mp   mp   mp	Uκ > DAMES α mBORE	cossign	
ient Sample 1D: Method Blank M. Lab Sample 1D: A180072802 A	Matrix Spike Blank A1B0072801	Blank				
Analyte	Units of Measure	Concentration Blank Spike	ation Spike Amount	% Recovery QC Blank Spike LIMITS	QC LIMITS	
ETHOD 8082 - POLYCHLORINATED BIPHENYLS Aroclor 1254	MG/KG	2.45	2.01	122	52-153	

R. NO34.

)ate: u2/02/2001	1999	O 775444	SAMPLE CHRONOLOGY	OH Seed	ww.	9374 1
4ETHOD 8082 - POLYCHLORINATED BIPHENYLS	ATED BIPHENYLS					·
Client Sample ID Job No & Lab Sample ID	Client Sample ID GE-EB1-10-12 8 Lab Sample ID 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	
ample Date eceived Date xtraction Date nalysis Date xtraction HT Met? nalytical HT Met? ample Matrix ilution Factor ample wt/vol Dry	01/24/2001 13:20 01/24/2001 14:30 01/26/2001 16:34 YES YES SOIL MED 1.0 2.28 GRAMS 87.24	01/24/2001 13:10 01/24/2001 14:30 01/26/2001 16:00 01/30/2001 16:09 YES YES SOIL MED 1.0 2.07 GRAMS	01/24/2001 12:49 01/24/2001 14:30 01/26/2001 16:00 01/30/2001 17:25 YES YES SOIL MED 1.0 2.24 GRAMS 87.37	01/24/2001 12:42 01/24/2001 14:30 01/26/2001 16:00 01/30/2001 17:00 YES YES SOIL MED 1.0 2.52 GRAMS 85.90	01/24/2001 12:20 01/24/2001 14:30 01/26/2001 16:00 01/30/2001 18:15 YES YES SOIL MED 1.0 2.22 GRAMS 86.72	

)ate: u2/02/2001	SMe.	nun	U SAME: SORE SAMPLE CHRONOLOGY	one one	 P R e D se a ge	9374 2
METHOD 8082 - POLYCHLORINATED BIPHENYLS	ATED BIPHENYLS					ſ
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	T
ample Date eceived Date xtraction Date nalysis Date xtraction HT Met? nalytical HT Met? ample Matrix ilution Factor ample wt/vol Dry	01/24/2001 12:16 01/24/2001 14:30 01/26/2001 16:00 01/30/2001 17:50 YES YES SOIL MED 1.0 2.34 GRAMS 85.88	01/24/2001 10:59 01/24/2001 14:30 01/26/2001 16:00 01/30/2001 19:06 YES YES YES SOIL MED 1.0 2.28 GRAMS 86.50	01/24/2001 10:53 01/24/2001 14:30 01/26/2001 16:00 01/30/2001 18:40 YES YES SOIL MED 1.0 2.16 GRAMS 86.02	01/24/2001 10:33 01/24/2001 14:30 01/26/2001 16:00 01/30/2001 22:02 YES YES SOIL MED 1.0 2.23 GRAMS 87.34	01/24/2001 10:20 01/24/2001 14:30 01/26/2001 16:00 01/30/2001 19:31 YES YES SOIL MED 1.0 2.41 GRAMS 85.81	

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ate: UZ/02/2001	enn enn	O SAM:	SAMPLE CHRONOLOGY	Heda Heda Heda Heda	me. Page:	374
ETHOD 8082 - POLYCHLORINATED BIPHENYLS	ATED BIPHENYLS					ſ
Client Sample ID GE-EB5-6-8 FD Job No & Lab Sample ID A01-0747 A10	GE-EB5-6-8 FD A01-0747 A1074709FD	GE-E86-10-12 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 ceived Date traction Date alysis Date traction HT Met? alytical HT Met? ample Matrix ilution Factor ample wt/vol	01/24/2001 10:20 01/24/2001 14:30 01/26/2001 16:00 01/30/2001 19:56 YES YES SOIL MED 1.0 2.4 GRAMS 85.81	01/24/2001 10:00 01/24/2001 14:30 01/26/2001 16:00 01/30/2001 22:52 YES YES SOIL MED 1.0 2.57 GRAMS 85.97	01/24/2001 09:46 01/24/2001 14:30 01/26/2001 16:00 01/30/2001 22:27 YES YES S01L MED 1.0 2.05 GRAMS 86.07	01/24/2001 09:12 01/24/2001 14:30 01/26/2001 16:00 01/30/2001 23:43 YES YES SOIL MED 1.0 2.02 GRAMS 85.67	01/24/2001 09:05 01/24/2001 14:30 01/26/2001 16:00 01/30/2001 23:17 YES YES S01L MED 1:0 2:77 GRAMS 85.71	

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Jare: UZ/02/2001	4ETHOD 8082 - POLYCHLORINATED BIPHENYLS	Client Sample ID Job No & Lab Sample ID	ample Date eceived Date xtraction Date nalysis Date rtraction HT Met? ample Matrix ilution Factor ample Wi/vol Dry

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Client Sample ID GE-EB5-6-8 MS Job No & Lab Sample ID A01-0747 A1074709MS	GE-EB5-6-8 MS A01-0747 A1074709MS	GE-EB5-6-8 SD A01-0747 A1074709SD	Matrix Spike Blank A01-0747 A1B0072801	
imple Date ceived Date (traction Date nalysis Date (traction HT Met? ample Matrix ilution Factor Dry	01/24/2001 10:20 01/24/2001 14:30 01/26/2001 16:00 01/30/2001 21:11 YES YES SOIL MED 1.0 2.14 GRAMS 85.81	01/24/2001 10:20 01/24/2001 14:30 01/26/2001 16:00 01/30/2001 21:37 YES YES SOIL MED 1.0 2.03 GRAMS	01/26/2001 16:00 01/30/2001 15:19 - S01L MED 1.0 2.48 GRAMS	

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ITBIX SE. SEDIMENT AIR WP. E  SE. SEDIMENT AND WASTE WW.	WL - LEACHATE WO - OCEAN WATER GS - SOIL GAS WS - SUBFACE WATER WC - DRILLING WATER HELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING:FREE PRODUCT ON GW TABLE
TB# - TRIP BLANK	SAMPLE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
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