TR4 SHALLOW SOIL SAMPLING SUMMARY REPORT OCTOBER 2012

CARRIER THOMPSON ROAD FACILITY
CARRIER PARKWAY
SYRACUSE, NEW YORK

EnSafe Project Number
0888812801

Revision: 0

Prepared for:

UTC Shared Remediation Services
United Technologies Building
Hartford, Connecticut 06108

Prepared by:

EnSafe Inc.
220 Athens Way, Suite 410
Nashville, Tennessee 37228
(615) 255-9300
(800) 588-7962
www.ensafe.com

November 2012

Table of Contents

Appendices

1.0 BACKGROUND INFORMATION

The Carrier Corporation Thompson Road Facility in Syracuse, New York (Carrier) currently discharges storm water runoff under its State Pollutant Discharge Elimination System (SPDES) Permit (No. NY 000 1163). As of September 1, 2012, Carrier's SPDES permit covers Outfalls 01A, 001, 002, 003, and 004, as described below:

- Outfall 001 — This outfall receives storm water runoff from Drainage Basin 001, as shown on Figure 1 — Drainage Basin Map and PMP Sampled Locations (Appendix A). An associated pump station (PS-1) collects and transfers up to 440 gallon per minute of dry weather flow (infiltrating groundwater) and a portion of the storm water to an onsite volatile organic compound (VOC) treatment system (air stripping towers) in the storm water treatment plant (SWTP) building located northeast of Parking Lot R (PL-R). After treatment, the storm water is discharged to Sanders Creek via Outfall 01A. Storm water exceeding the capacity of PS-1 discharges directly to Outfall 001.

- Outfall 002 — This outfall receives storm water runoff from Drainage Basin 002, as shown on Figure 1. This basin has three detention ponds that collect dry weather flow (infiltrating groundwater) and storm water that flows to pump station (PS-2), then transfers the water to a polychlorinated biphenyl (PCB) treatment system in the SWTP building. Treated storm water from the PCB treatment system is routed to the VOC treatment system, where it combines with flow pumped from PS-1 and ultimately discharges to Sanders Creek via Outfall 01A. During large storm events that produce flows exceeding the capacity of the three ponds and PS-2, overflows discharge directly to Outfall 002.

- Outfall 01A — This outfall receives the discharge from the air stripper treatment system. Outfall 01A discharges into the Outfall 001 discharge pipe prior to their combined discharge into Sanders Creek.

- Outfall 003 — This outfall receives surface water runoff from Drainage Basin 003, as shown on Figure 1. This drainage basin and outfall were created subsequent to the demolition of buildings TR-1 and TR-2 to collect uncontaminated surface water and convey it directly to Sanders Creek.

- Outfall 004 — This outfall receives surface water runoff from Drainage Basin 004, as shown on Figure 1. This drainage basin and outfall were created subsequent to the demolition of

buildings TR-1 and TR-2 to collect uncontaminated surface water and convey it directly to Sanders Creek.

Under its SPDES Permit, Carrier performs monthly monitoring of PCBs at Outfall 01A, and at Outfalls 001 and 002, if discharge occurs. Recent PCB detections have prompted Carrier to evaluate potential sources of PCBs in the 01A discharge. There are four sources of storm water influent to Outfall 01A:

1. Treated Basin 002 Storm Water (PS2 → SWTP → VOC treatment → 01A)

    - Basin 002 Storm Water: Routine sampling of water exiting the PCB treatment system indicates that the system is effectively removing PCBs from Basin 002 runoff and this influent to Outfall 01A has been eliminated as a current source of PCBs in the 01A discharge.

2. Basin 001 Storm Water (PS1 → VOC treatment → 01A)

    - Basin 001: This storm water runoff is not treated for PCBs.

3. Treated Parking Lot R (PL-R) Storm Water (PSMH1 → SWTP → VOC treatment → 01A)

    - Parking Lot R: PL-R was formerly part of Basin 001. Recent findings prompted Carrier to reroute storm water in the portion of the PL-R storm lines tributary to MH5 to the PCB treatment system using a submersible pump installed at manhole MH1 (pump station at MH1 - PSMH1); therefore, the runoff in this piping, which underlies roughly the western two-thirds of PL-R, has been eliminated as a current source of PCBs in the 01A discharge.

4. Treated Compressor Avenue Line Storm Water (PSMH2 → SWTP → VOC treatment → 01A)

    - Compressor Avenue Line: The Compressor Avenue Line was formerly part of Basin 001. Recent findings prompted Carrier to reroute storm water in the portion of the Compressor Avenue line tributary to MH42 to the PCB treatment system using an overflow weir and submersible pump installed at manhole MH2 (PSMH2). The runoff in this piping has been eliminated as a current low-flow source of PCBs in the 01A discharge.

With Basin 002, the PL-R piping, and the Compressor Avenue Line eliminated as sources of PCBs in 01A discharges, Carrier shifted its focus on sources to Basin 001. Carrier identified three areas near TR-4 and TR-5 that were proximate to transformers that may have historically contained PCBs,

and conducted a shallow soil investigation at each of these locations. Notification via e-mail of field activities was transmitted to NYSDEC on September 6, 2012. These locations are identified as TR4 Fan Room 2, TR4 Substation M, and TR5 Substation N. The purpose of the investigation was to determine if a historical release to shallow soils may have occurred, resulting in the continued migration (via erosion of surface soils) of PCBs into the Basin 001 storm lines.

2.0 ASSESSMENT ACTIVITIES

EnSafe conducted a shallow soil investigation on September 11, 2012, at the locations shown on Figure 2 – TR4 Shallow Soil Investigation Locations. A total of 17 soil borings were advanced via hand auger to a depth of approximately 14 inches below ground surface (bgs). All borings were advanced in landscaped areas: six borings along the eastern side of TR-4 near TR4 Substation M, eight borings at the northern portion of Building TR4 near TR4 Fan Room 2, and three borings along the western side of Building TR5 near TR5 Substation N. Groundwater was not encountered at any of the soil boring locations.

Two soil samples were collected for laboratory analysis from each soil boring location — one from approximately 4 to 8 inches bgs and another from approximately 10 to 14 inches bgs. Samples were placed into 4-ounce glass jars, stored on ice, and submitted under chain-of-custody procedures to Accutest Laboratories (Dayton, New Jersey) for Total PCB analysis using USEPA Method 8082. The shallow soil samples (4 to 8 inches bgs) were submitted for immediate PCBs analysis, while the deeper soil samples (10 to 14 inches bgs) were placed on hold by the laboratory to be analyzed depending upon on results from the shallow soil samples. If the 4 to 8-inch interval exhibited PCBs at concentrations consistent with a PCB oil/free-product release or spill, then the lab was instructed to analyze the deep soil interval (10 to 14 inches).

Investigation-derived waste generated during site activities was limited to soil cuttings. These wastes were placed back in the boring from which they were generated. No other wastes requiring characterization and disposal were generated during the September 2012 shallow soil sampling event.

Laboratory analytical results summaries (Table 1) for soil samples obtained during the September 2012 shallow soil sampling event are provided in Appendix B. Laboratory analytical reports and chain of custody documentation are provided in Appendix C.

3.0 CONCLUSION

In two of the three investigation areas TR4 Fan Room 2 and TR5 Substation N, PCB concentrations were less than 0.5 milligrams per kilogram (mg/kg) in all samples. The average Aroclor 1260 concentration was 0.421 mg/kg and Aroclor 1254 was not detected above the method detection limit. At TR4 Substation M, PCBs were detected above 1 mg/kg in only one sample and the average concentration in this area was 0.194 mg/kg. Considering these PCB concentrations, shallow surface soil does not appear to be the source of PCBs in Outfall 01A discharges, and no further action with regard to shallow surface soils is planned. Carrier will continue to evaluate the source of PCBs in the01A discharges.

4.0 LIMITATIONS

This limited assessment does not constitute a comprehensive site investigation to identify the presence and/or horizontal and vertical extent of potential contamination on the subject property.

The objective of this limited assessment was to evaluate the potential presence and concentrations of PCBs in soil associated with three areas near TR-4 and TR-5 that were proximate to transformers that may have historically contained PCBs. However, horizontal and vertical extent of PCB impacts have not been defined as a result of this limited assessment.

Appendix A
Figures

GRAPHIC SCALE
80 0 40 80 160 320
(IN FEET)

N

OUTFALL
001 Discharge outfall to Sanders Creek for storm water runoff overflows from Drainage Basin 001 exceeding 440 gpm.
002 Discharge outfall to Sanders Creek for surface overflows from Drainage Basin 002 exceeding the 25-yr, 24-hr storm event.
003 Discharge outfall to Sanders Creek for surface water runoff from Drainage Basin 003
004 Discharge outfall to Sanders Creek for surface water runoff from Drainage Basin 004
01A Discharge point to Sanders Creek (via Outfall 001) of treated storm water runoff from Drainage Basin 001 and Basin 002

OUTFALL 004
OUTFALL 003
OUTFALL 002
OUTFALL 001 & 01A
SANDERS CREEK
CARRIER PARKWAY
FORMER MOTEL
FORMER GAS STATION
MCDONALD'S
$ MAP)
PARKING LOT
TR-1 WEST PARKING LOT AREA
(FORMER CARRIER DEWITT LANDFILL)
PARKING LOT
FORMER BUILDING TR-2
BASIN 003
BASIN 002
POND 3
STORM WATER TREATMENT PLANT
PARKING LOT R (FORMER TR-3)
PARKING LOT E
PARKING LOT F
FORMER A&R BUILDING
PARKING LOT G
PARKING LOT N
PARKING LOT O
FIRST STREET
FORMER BUILDING TR-1
POND 2
TR-18
TR-18S
PARKING LOT Q
BASIN 004
BASIN 001
TR15
TR-20
TR-5
TR-4
TR-19
EASTERN CAMPUS
SECOND STREET
BASIN 002-MIDDLE
MH-126
CHILLER AVENUE
THOMPSON ROAD
RESEARCH AVENUE
COMPRESSOR AVENUE
TOWNSICOLD AVENUE
TR-6
TR-7
TR-7A
TR-6A
THIRD STREET
FOURTH STREET
BASIN 002 - XF YARD AREA
POND 1
TR-10
TR-11
TR-13
ELECTRICAL TRANSFORMER YARD
EASEMENT FOR OVERHEAD ELECTRICAL LINES
TR-8
TR-21
PARKING LOT J
PARKING LOT L
PARKING LOT M
BASIN 001
PARKING LOT K
TR-23
FIFTH STREET
TR-22
TR-12
NYNEX / CARRIER ROADWAY

SCALE: 1" = 80' AT FULL SIZE E	
DRAWN BY: WJM	
REVIEWED BY: MH	
PROJECT #0888812801	
DATE: NOVEMBER 09, 2012	

ENSAFE CREATIVE THINKING. CUSTOM SOLUTIONS:
ENGINEERING | ENVIRONMENT | HEALTH & SAFETY | TECHNOLOGY
TELEPHONE (800) 588-7962 | WWW.ENSAFE.COM
a global professional services company

Figure 1
Drainage Basin Overview Map
TR4 Vault Shallow Soil Investigation
September 2012
Carrier Facility, Syracuse, New York

File name: I:\2012 Projects BST\11998 Carrier Risk Potential Map\11998 Carrier Syracuse Basins – SIP SITE LAYOUT 10-10-12.dwg Plotted By: WADE MAREK Plot Date:11/9/2012 9:17:05 AM

N

HA17
HA16
HA13 HA14 HA15
TR4 Fan Room: HVAC Electrical Room, not a Substation.
HA12 HA10
HA11

Building TR4

Building TR5

HA09 HA08 HA07
HA04
HA06
HA05
TR4 Substation M

HA03
HA02
TR5 Substation N
HA01

Legend

Hand Auger Location

0 20 40 80 120 160 Feet

FIGURE 2
SHALLOW SOILS INVESTIGATION
SEPTEMBER 2012
CARRIER CORPORATION
SYRACUSE, NEW YORK

REQUESTED BY: S. GOODNIGHT	ENSAFE
DRAWN BY: N. RINEHART	
DATE: 09/26/12	
PROJECT NO: 0888812801	

(270) 843-1622
WWW.ENSAFE.COM
BOWLING GREEN, KENTUCKY

Aerial Photographic Source:NYS Office of Cyber Security & Critical Infrastructure Coordination April 2009

10/23/2012 X:\UTC\Syracuse\Carrier Campus\Projects\Syracuse_TR4_Shallow_Soil_Sampling.mxd

Appendix B
Analytical Results Summary Table

Table 1
CARRIER THOMPSON ROAD FACILITY
CARRIER PARKWAY
SYRACUSE, NEW YORK
LABORATORY ANALYTICAL RESULTS SUMMARY - SOIL
SEPTEMBER 2012

Table 1 TR4 Vault Shallow Surface Soil Investigation, September 2012 PCB Data Summary (all results in mg/kg) Carrier Facility, Syracuse, New York										
	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCBs
NYSDEC Limit - Surface Soils										1
CARHA01SSS0912	ND	ND	ND	ND	ND	ND	0.0799	ND	ND	0.0799
CARHA02SSS0912	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
CARHA03SSS0912	ND	ND	ND	ND	ND	ND	0.261	ND	ND	0.261
CARHA04SSS0912	ND	ND	ND	ND	ND	ND	0.457	ND	ND	0.457
CARHA05SSS0912	ND	ND	ND	ND	ND	ND	0.311	ND	ND	0.311
CARHA06SSS0912	ND	ND	ND	ND	ND	0.368	0.75	ND	ND	**1.118**
CARHA07SSS0912	ND	ND	ND	ND	ND	ND	0.236	ND	ND	0.236
CARHA08SSS0912	ND	ND	ND	ND	ND	ND	0.556	ND	ND	0.556
CARHA09SSS0912	ND	ND	ND	ND	ND	ND	0.216	ND	ND	0.216
CARHA10SSS0912	ND	ND	ND	ND	ND	ND	0.396	ND	ND	0.396
CARHA11SSS0912	ND	ND	ND	ND	ND	ND	0.146	ND	ND	0.146
CARHA12SSS0912	ND	ND	ND	ND	ND	ND	0.28	ND	ND	0.28
CARHA13SSS0912	ND	ND	ND	ND	ND	ND	0.0817	ND	ND	0.0817
CARHA14SSS0912	ND	ND	ND	ND	ND	ND	0.0929	ND	ND	0.0929
CARHA15SSS0912	ND	ND	ND	ND	ND	ND	0.304	ND	ND	0.304
CARHA16SSS0912	ND	ND	ND	ND	ND	ND	0.473	ND	ND	0.473
CARHA17SSS0912	ND	ND	ND	ND	ND	ND	ND	ND	ND	0

Notes:

ND - Constituent not detected at laboratory report limit

All concentrations reported in micrograms per kilogram (µg/Kg)

[1] Screening levels based on NYSDEC Soil Cleanup Guidance (CP-51 dated October 2010)

Concentrations exceeding NYSDEC Limit for Surface Soils

ENSAFE

Appendix C
Laboratory Analytical Reports

New Jersey
ACCUTEST LABORATORIES

09/21/12

Technical Report for

United Technologies Corporation

ENSTNN: Carrier, Syracuse, NY

0888812801

Accutest Job Number: JB16302

Sampling Date: 09/11/12

Report to:

Ensafe
5724 Summer Trees Drive
Memphis, TN 38134
tcantwell@ensafe.com; mheflin@Ensafe.com;
bham@ensafe.com
ATTN: May Heflin

Total number of pages in report: **36**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Ioannidis
Lab Director

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

Sections: 1 2 3 4 5

Table of Contents

-1-

Sample Summary

United Technologies Corporation

Job No: JB16302

ENSTNN: Carrier, Syracuse, NY
Project No: 0888812801

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB16302-1	09/11/12	10:25	SG	09/12/12	SO	Soil	CARHA01SSS0912
JB16302-2	09/11/12	10:39	SG	09/12/12	SO	Soil	CARHA02SSS0912
JB16302-3	09/11/12	10:48	SG	09/12/12	SO	Soil	CARHA03SSS0912
JB16302-4	09/11/12	12:13	SG	09/12/12	SO	Soil	CARHA04SSS0912
JB16302-5	09/11/12	12:22	SG	09/12/12	SO	Soil	CARHA05SSS0912
JB16302-6	09/11/12	12:29	SG	09/12/12	SO	Soil	CARHA06SSS0912
JB16302-7	09/11/12	12:38	SG	09/12/12	SO	Soil	CARHA07SSS0912
JB16302-8	09/11/12	12:50	SG	09/12/12	SO	Soil	CARHA08SSS0912
JB16302-9	09/11/12	12:59	SG	09/12/12	SO	Soil	CARHA09SSS0912
JB16302-10	09/11/12	13:26	SG	09/12/12	SO	Soil	CARHA10SSS0912
JB16302-11	09/11/12	13:35	SG	09/12/12	SO	Soil	CARHA11SSS0912
JB16302-12	09/11/12	13:45	SG	09/12/12	SO	Soil	CARHA12SSS0912
JB16302-13	09/11/12	13:54	SG	09/12/12	SO	Soil	CARHA13SSS0912

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

United Technologies Corporation

Job No: JB16302

ENSTNN: Carrier, Syracuse, NY
Project No: 0888812801

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JB16302-14	09/11/12	14:07	SG	09/12/12	SO	Soil	CARHA14SSS0912
JB16302-15	09/11/12	14:27	SG	09/12/12	SO	Soil	CARHA15SSS0912
JB16302-16	09/11/12	14:36	SG	09/12/12	SO	Soil	CARHA16SSS0912
JB16302-17	09/11/12	14:50	SG	09/12/12	SO	Soil	CARHA17SSS0912

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: JB16302
Account: United Technologies Corporation
Project: ENSTNN: Carrier, Syracuse, NY
Collected: 09/11/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB16302-1	**CARHA01SSS0912**					
Aroclor 1260		79.9	33	11	ug/kg	SW846 8082A
JB16302-2	**CARHA02SSS0912**					
No hits reported in this sample.						
JB16302-3	**CARHA03SSS0912**					
Aroclor 1260		261	36	12	ug/kg	SW846 8082A
JB16302-4	**CARHA04SSS0912**					
Aroclor 1260		457	35	11	ug/kg	SW846 8082A
JB16302-5	**CARHA05SSS0912**					
Aroclor 1260		311	35	11	ug/kg	SW846 8082A
JB16302-6	**CARHA06SSS0912**					
Aroclor 1254		368	34	16	ug/kg	SW846 8082A
Aroclor 1260		750	34	11	ug/kg	SW846 8082A
JB16302-7	**CARHA07SSS0912**					
Aroclor 1260		236	33	11	ug/kg	SW846 8082A
JB16302-8	**CARHA08SSS0912**					
Aroclor 1260		556	37	12	ug/kg	SW846 8082A
JB16302-9	**CARHA09SSS0912**					
Aroclor 1260		216	35	11	ug/kg	SW846 8082A
JB16302-10	**CARHA10SSS0912**					
Aroclor 1260		396	34	11	ug/kg	SW846 8082A
JB16302-11	**CARHA11SSS0912**					
Aroclor 1260		146	35	12	ug/kg	SW846 8082A

Summary of Hits

Job Number: JB16302
Account: United Technologies Corporation
Project: ENSTNN: Carrier, Syracuse, NY
Collected: 09/11/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB16302-12	**CARHA12SSS0912**					
Aroclor 1260		280	35	11	ug/kg	SW846 8082A
JB16302-13	**CARHA13SSS0912**					
Aroclor 1260		81.7	36	12	ug/kg	SW846 8082A
JB16302-14	**CARHA14SSS0912**					
Aroclor 1260		92.9	35	11	ug/kg	SW846 8082A
JB16302-15	**CARHA15SSS0912**					
Aroclor 1260		304	34	11	ug/kg	SW846 8082A
JB16302-16	**CARHA16SSS0912**					
Aroclor 1260		473	35	12	ug/kg	SW846 8082A
JB16302-17	**CARHA17SSS0912**					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CARHA01SSS0912		
Lab Sample ID:	JB16302-1	**Date Sampled:**	09/11/12
Matrix:	SO - Soil	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3546	**Percent Solids:**	94.2
Project:	ENSTNN: Carrier, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4990.D	1	09/19/12	HQ	09/19/12	OP59887	G5G123
Run #2							

	Initial Weight	Final Volume
Run #1	16.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	8.6	ug/kg	
11104-28-2	Aroclor 1221	ND	33	20	ug/kg	
11141-16-5	Aroclor 1232	ND	33	17	ug/kg	
53469-21-9	Aroclor 1242	ND	33	10	ug/kg	
12672-29-6	Aroclor 1248	ND	33	10	ug/kg	
11097-69-1	Aroclor 1254	ND	33	15	ug/kg	
11096-82-5	Aroclor 1260	79.9	33	11	ug/kg	
11100-14-4	Aroclor 1268	ND	33	9.7	ug/kg	
37324-23-5	Aroclor 1262	ND	33	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	48%		22-141%
877-09-8	Tetrachloro-m-xylene	59%		22-141%
2051-24-3	Decachlorobiphenyl	55%		18-163%
2051-24-3	Decachlorobiphenyl	57%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CARHA02SSS0912		
Lab Sample ID:	JB16302-2	**Date Sampled:**	09/11/12
Matrix:	SO - Soil	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3546	**Percent Solids:**	92.9
Project:	ENSTNN: Carrier, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4991.D	1	09/19/12	HQ	09/19/12	OP59887	G5G123
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.0	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	17	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	10	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	ND	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	41%		22-141%
877-09-8	Tetrachloro-m-xylene	48%		22-141%
2051-24-3	Decachlorobiphenyl	54%		18-163%
2051-24-3	Decachlorobiphenyl	75%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CARHA03SSS0912
Lab Sample ID: JB16302-3
Matrix: SO - Soil
Method: SW846 8082A SW846 3546
Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 09/11/12
Date Received: 09/12/12
Percent Solids: 93.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4992.D	1	09/19/12	HQ	09/19/12	OP59887	G5G123
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	9.2	ug/kg	
11104-28-2	Aroclor 1221	ND	36	21	ug/kg	
11141-16-5	Aroclor 1232	ND	36	18	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248	ND	36	11	ug/kg	
11097-69-1	Aroclor 1254	ND	36	17	ug/kg	
11096-82-5	Aroclor 1260	261	36	12	ug/kg	
11100-14-4	Aroclor 1268	ND	36	10	ug/kg	
37324-23-5	Aroclor 1262	ND	36	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		22-141%
877-09-8	Tetrachloro-m-xylene	92%		22-141%
2051-24-3	Decachlorobiphenyl	78%		18-163%
2051-24-3	Decachlorobiphenyl	81%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CARHA04SSS0912		
Lab Sample ID:	JB16302-4	**Date Sampled:**	09/11/12
Matrix:	SO - Soil	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3546	**Percent Solids:**	93.5
Project:	ENSTNN: Carrier, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4993.D	1	09/19/12	HQ	09/19/12	OP59887	G5G123
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.1	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	457	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	51%		22-141%
877-09-8	Tetrachloro-m-xylene	59%		22-141%
2051-24-3	Decachlorobiphenyl	59%		18-163%
2051-24-3	Decachlorobiphenyl	68%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CARHA05SSS0912		
Lab Sample ID:	JB16302-5	**Date Sampled:**	09/11/12
Matrix:	SO - Soil	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3546	**Percent Solids:**	92.2
Project:	ENSTNN: Carrier, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4994.D	1	09/19/12	HQ	09/19/12	OP59887	G5G123
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.0	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	311	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	31%		22-141%
877-09-8	Tetrachloro-m-xylene	38%		22-141%
2051-24-3	Decachlorobiphenyl	36%		18-163%
2051-24-3	Decachlorobiphenyl	42%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CARHA06SSS0912		
Lab Sample ID:	JB16302-6	**Date Sampled:**	09/11/12
Matrix:	SO - Soil	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3546	**Percent Solids:**	92.5
Project:	ENSTNN: Carrier, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4995.D	1	09/19/12	HQ	09/19/12	OP59887	G5G123
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	8.9	ug/kg	
11104-28-2	Aroclor 1221	ND	34	21	ug/kg	
11141-16-5	Aroclor 1232	ND	34	17	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	10	ug/kg	
11097-69-1	Aroclor 1254	368	34	16	ug/kg	
11096-82-5	Aroclor 1260	750	34	11	ug/kg	
11100-14-4	Aroclor 1268	ND	34	10	ug/kg	
37324-23-5	Aroclor 1262	ND	34	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	50%		22-141%
877-09-8	Tetrachloro-m-xylene	61%		22-141%
2051-24-3	Decachlorobiphenyl	54%		18-163%
2051-24-3	Decachlorobiphenyl	61%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CARHA07SSS0912		
Lab Sample ID:	JB16302-7	**Date Sampled:**	09/11/12
Matrix:	SO - Soil	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3546	**Percent Solids:**	94.3
Project:	ENSTNN: Carrier, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4996.D	1	09/19/12	HQ	09/19/12	OP59887	G5G123
Run #2							

	Initial Weight	Final Volume
Run #1	16.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	8.5	ug/kg	
11104-28-2	Aroclor 1221	ND	33	20	ug/kg	
11141-16-5	Aroclor 1232	ND	33	17	ug/kg	
53469-21-9	Aroclor 1242	ND	33	10	ug/kg	
12672-29-6	Aroclor 1248	ND	33	9.9	ug/kg	
11097-69-1	Aroclor 1254	ND	33	15	ug/kg	
11096-82-5	Aroclor 1260	236	33	11	ug/kg	
11100-14-4	Aroclor 1268	ND	33	9.6	ug/kg	
37324-23-5	Aroclor 1262	ND	33	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	22%		22-141%
877-09-8	Tetrachloro-m-xylene	25%		22-141%
2051-24-3	Decachlorobiphenyl	28%		18-163%
2051-24-3	Decachlorobiphenyl	34%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CARHA08SSS0912		
Lab Sample ID:	JB16302-8	**Date Sampled:**	09/11/12
Matrix:	SO - Soil	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3546	**Percent Solids:**	90.4
Project:	ENSTNN: Carrier, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G4997.D	1	09/19/12	HQ	09/19/12	OP59887	G5G123
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	9.6	ug/kg	
11104-28-2	Aroclor 1221	ND	37	22	ug/kg	
11141-16-5	Aroclor 1232	ND	37	19	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248	ND	37	11	ug/kg	
11097-69-1	Aroclor 1254	ND	37	17	ug/kg	
11096-82-5	Aroclor 1260	556	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	11	ug/kg	
37324-23-5	Aroclor 1262	ND	37	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	52%		22-141%
877-09-8	Tetrachloro-m-xylene	63%		22-141%
2051-24-3	Decachlorobiphenyl	62%		18-163%
2051-24-3	Decachlorobiphenyl	73%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CARHA09SSS0912		
Lab Sample ID:	JB16302-9	**Date Sampled:**	09/11/12
Matrix:	SO - Soil	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3546	**Percent Solids:**	91.2
Project:	ENSTNN: Carrier, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF112864.D	1	09/19/12	GAD	09/19/12	OP59887	GEF4579
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.1	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	216	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	37%		22-141%
877-09-8	Tetrachloro-m-xylene	41%		22-141%
2051-24-3	Decachlorobiphenyl	54%		18-163%
2051-24-3	Decachlorobiphenyl	50%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CARHA10SSS0912
Lab Sample ID: JB16302-10
Matrix: SO - Soil
Method: SW846 8082A SW846 3546
Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 09/11/12
Date Received: 09/12/12
Percent Solids: 94.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF112865.D	1	09/19/12	GAD	09/19/12	OP59887	GEF4579
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	8.9	ug/kg	
11104-28-2	Aroclor 1221	ND	34	21	ug/kg	
11141-16-5	Aroclor 1232	ND	34	17	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	10	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	396	34	11	ug/kg	
11100-14-4	Aroclor 1268	ND	34	10	ug/kg	
37324-23-5	Aroclor 1262	ND	34	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	39%		22-141%
877-09-8	Tetrachloro-m-xylene	45%		22-141%
2051-24-3	Decachlorobiphenyl	63%		18-163%
2051-24-3	Decachlorobiphenyl	55%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CARHA11SSS0912		
Lab Sample ID:	JB16302-11	**Date Sampled:**	09/11/12
Matrix:	SO - Soil	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3546	**Percent Solids:**	90.8
Project:	ENSTNN: Carrier, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF112866.D	1	09/19/12	GAD	09/19/12	OP59887	GEF4579
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.2	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	17	ug/kg	
11096-82-5	Aroclor 1260	146	35	12	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	48%		22-141%
877-09-8	Tetrachloro-m-xylene	54%		22-141%
2051-24-3	Decachlorobiphenyl	64%		18-163%
2051-24-3	Decachlorobiphenyl	64%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CARHA12SSS0912
Lab Sample ID: JB16302-12
Matrix: SO - Soil
Method: SW846 8082A SW846 3546
Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 09/11/12
Date Received: 09/12/12
Percent Solids: 91.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF112867.D	1	09/19/12	GAD	09/19/12	OP59887	GEF4579
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.1	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	280	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	62%		22-141%
877-09-8	Tetrachloro-m-xylene	73%		22-141%
2051-24-3	Decachlorobiphenyl	72%		18-163%
2051-24-3	Decachlorobiphenyl	69%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CARHA13SSS0912		
Lab Sample ID:	JB16302-13	**Date Sampled:**	09/11/12
Matrix:	SO - Soil	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3546	**Percent Solids:**	92.0
Project:	ENSTNN: Carrier, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF112868.D	1	09/19/12	GAD	09/19/12	OP59887	GEF4579
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	9.4	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	18	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248	ND	36	11	ug/kg	
11097-69-1	Aroclor 1254	ND	36	17	ug/kg	
11096-82-5	Aroclor 1260	81.7	36	12	ug/kg	
11100-14-4	Aroclor 1268	ND	36	11	ug/kg	
37324-23-5	Aroclor 1262	ND	36	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	55%		22-141%
877-09-8	Tetrachloro-m-xylene	62%		22-141%
2051-24-3	Decachlorobiphenyl	70%		18-163%
2051-24-3	Decachlorobiphenyl	74%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CARHA14SSS0912
Lab Sample ID: JB16302-14
Matrix: SO - Soil
Method: SW846 8082A SW846 3546
Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 09/11/12
Date Received: 09/12/12
Percent Solids: 93.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF112869.D	1	09/19/12	GAD	09/19/12	OP59887	GEF4579
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.0	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	17	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	10	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	92.9	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	29%		22-141%
877-09-8	Tetrachloro-m-xylene	32%		22-141%
2051-24-3	Decachlorobiphenyl	40%		18-163%
2051-24-3	Decachlorobiphenyl	39%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CARHA15SSS0912
Lab Sample ID: JB16302-15
Matrix: SO - Soil
Method: SW846 8082A SW846 3546
Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 09/11/12
Date Received: 09/12/12
Percent Solids: 94.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX124121.D	1	09/19/12	LP	09/19/12	OP59887	GXX4473
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	9.0	ug/kg	
11104-28-2	Aroclor 1221	ND	34	21	ug/kg	
11141-16-5	Aroclor 1232	ND	34	17	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	10	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	304	34	11	ug/kg	
11100-14-4	Aroclor 1268	ND	34	10	ug/kg	
37324-23-5	Aroclor 1262	ND	34	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	26%		22-141%
877-09-8	Tetrachloro-m-xylene	24%		22-141%
2051-24-3	Decachlorobiphenyl	36%		18-163%
2051-24-3	Decachlorobiphenyl	26%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CARHA16SSS0912
Lab Sample ID: JB16302-16
Matrix: SO - Soil
Method: SW846 8082A SW846 3546
Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 09/11/12
Date Received: 09/12/12
Percent Solids: 93.1

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX124122.D	1	09/19/12	LP	09/19/12	OP59887	GXX4473
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.2	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	17	ug/kg	
11096-82-5	Aroclor 1260	473	35	12	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	53%		22-141%
877-09-8	Tetrachloro-m-xylene	49%		22-141%
2051-24-3	Decachlorobiphenyl	74%		18-163%
2051-24-3	Decachlorobiphenyl	60%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CARHA17SSS0912
Lab Sample ID: JB16302-17
Matrix: SO - Soil
Method: SW846 8082A SW846 3546
Project: ENSTNN: Carrier, Syracuse, NY

Date Sampled: 09/11/12
Date Received: 09/12/12
Percent Solids: 93.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX124123.D	1	09/19/12	LP	09/19/12	OP59887	GXX4473
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.1	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	ND	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	44%		22-141%
877-09-8	Tetrachloro-m-xylene	42%		22-141%
2051-24-3	Decachlorobiphenyl	41%		18-163%
2051-24-3	Decachlorobiphenyl	45%		18-163%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES 30

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
Tel: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 1 OF 2

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: JB16302

Client / Reporting Information

Company Name: EnSafe
Street Address: 220 Athens Way Suite #410
City: Nashville State: TN Zip: 37228
Project Contact: May Heflin E-mail: mheflin@ensafe.com
Phone #: 615-255-9300 Fax #:
Sampler(s) Name(s): Shane Goodnight Phone #:

Project Information

Project Name: Carrier - Syracuse
Street:
City: Syracuse State: NY
Project #: 0888812801
Client Purchase Order #:
Project Manager: May Heflin

Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet): PCB - 8082

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	PCB - 8082	LAB USE ONLY
-1	CARHA01SSS0912		9/11/12	1025	SG	SO	1					X					
-2	CARHA02SSS0912		↓	1039	↓	↓	1					X					
-3	CARHA03SSS0912			1048			1					X					48PLR
-4	CARHA04SSS0912			1213			1					X					
-5	CARHA05SSS0912			1222			1					X					
-6	CARHA06SSS0912			1229			1					X					
-7	CARHA07SSS0912			1238			1					X					
-8	CARHA08SSS0912			1250			1					X					
-9	CARHA09SSS0912			1259			1					X					
-10	CARHA10SSS0912			1326			1					X					
-11	CARHA11SSS0912			1335			1					X					
-12	CARHA12SSS0912		↓	1345	↓	↓	1					X					

Turnaround Time (Business days)

- ☐ Std. 15 Business Days
- ☐ Std. 10 Business Days (by Contract only)
- ☐ 10 Day *RUSH*
- ☐ 5 Day *RUSH*
- ☐ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day *EMERGENCY*

See comments

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☒ Commercial "B" (Level 2)
- ☐ FULLT1 (Level 3+4)
- ☐ NJ Reduced
- ☐ Commercial "C"
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format
- ☐ Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Hold all samples until contacted by project manager

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	9/11/12 1725	1 [signature]	2 [signature]	9/11/12 1800	2 FedEx
Relinquished by Sampler: 3 FedEx	9/12/12 930	3 [signature]	4		4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☒ Cooler Temp. 5C

1B 3 Coolers

JB16302: Chain of Custody
Page 1 of 4

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
Tel: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 2 OF 2

FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job # JB16302

Client / Reporting Information

Company Name: EnSafe
Street Address: 220 Athens Way Suite 410
City: Nashville State: TN Zip: 37228
Project Contact: May Heflin E-mail: mheflin@ensafe.com
Phone #: 615-255-9300 Fax #:
Sampler(s) Name(s): Shane Goodnight Phone #:

Project Information

Project Name: Carrier - Syracuse
Street:
City: Syracuse State: NY
Project #: 088812801
Client Purchase Order #:
Project Manager: May Heflin

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

2808 - 8121

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
13	CARHA13 SSS0912		9/11/12	1354	SG	SO	1					X				
14	CARHA14 SSS0912			1407			1					X				
15	CARHA15 SSS0912			1427			1					X				
16	CARHA16 SSS0912			1436			1					X				
17	CARHA17 SSS0912			1450			1					X				

Turnaround Time (Business days)

- [ ] Std. 15 Business Days
- [ ] Std. 10 Business Days (by Contract only)
- [ ] 10 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Set comments

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Hold all samples until contacted by project manager

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		9/11/12 1725	1	2	9/11/12 1800	2 FedEx
3	Fed Ex	9/12/12 930	3	4		4
5	Relinquished by:	Date Time:	5	Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp.

JB16302: Chain of Custody
Page 2 of 4

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB16302 **Client:** **Project:**

Date / Time Received: 9/12/2012 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (5/5); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Bar Therm		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB16302: Chain of Custody
Page 3 of 4

Job Change Order: JB16302_9/18/2012

Requested Date:	9/18/2012	**Received Date:**	9/12/2012
Account Name:	United Technologies	**Due Date:**	9/26/2012
Project	ENSTNN: Carrier, Syracuse, NY	**Deliverable:**	COMMB
CSR:	MM	**TAT (Days):**	1

Sample #:
JB16302-all

Change: Please take off hold and login for 1 day TAT
P8082PCB11 and %SOL.

Above Changes Per: May Heflin **Date:** 9/18/2012

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

JB16302: Chain of Custody
Page 4 of 4

New Jersey ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JB16302
Account: UTC United Technologies Corporation
Project: ENSTNN: Carrier, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59887-MB1	5G4988.D	1	09/19/12	HQ	09/19/12	OP59887	G5G123

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB16302-1, JB16302-2, JB16302-3, JB16302-4, JB16302-5, JB16302-6, JB16302-7, JB16302-8, JB16302-9, JB16302-10, JB16302-11, JB16302-12, JB16302-13, JB16302-14, JB16302-15, JB16302-16, JB16302-17

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	8.7	ug/kg	
11104-28-2	Aroclor 1221	ND	33	20	ug/kg	
11141-16-5	Aroclor 1232	ND	33	17	ug/kg	
53469-21-9	Aroclor 1242	ND	33	11	ug/kg	
12672-29-6	Aroclor 1248	ND	33	10	ug/kg	
11097-69-1	Aroclor 1254	ND	33	16	ug/kg	
11096-82-5	Aroclor 1260	ND	33	11	ug/kg	
11100-14-4	Aroclor 1268	ND	33	9.8	ug/kg	
37324-23-5	Aroclor 1262	ND	33	11	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	78%	22-141%
877-09-8	Tetrachloro-m-xylene	96%	22-141%
2051-24-3	Decachlorobiphenyl	76%	18-163%
2051-24-3	Decachlorobiphenyl	73%	18-163%

Method Blank Summary

Job Number: JB16302
Account: UTC United Technologies Corporation
Project: ENSTNN: Carrier, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59887-MB1	XX124119.D	1	09/19/12	LP	09/19/12	OP59887	GXX4473

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB16302-1, JB16302-2, JB16302-3, JB16302-4, JB16302-5, JB16302-6, JB16302-7, JB16302-8, JB16302-9, JB16302-10, JB16302-11, JB16302-12, JB16302-13, JB16302-14, JB16302-15, JB16302-16, JB16302-17

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	8.7	ug/kg	
11104-28-2	Aroclor 1221	ND	33	20	ug/kg	
11141-16-5	Aroclor 1232	ND	33	17	ug/kg	
53469-21-9	Aroclor 1242	ND	33	11	ug/kg	
12672-29-6	Aroclor 1248	ND	33	10	ug/kg	
11097-69-1	Aroclor 1254	ND	33	16	ug/kg	
11096-82-5	Aroclor 1260	ND	33	11	ug/kg	
11100-14-4	Aroclor 1268	ND	33	9.8	ug/kg	
37324-23-5	Aroclor 1262	ND	33	11	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	75%	22-141%
877-09-8	Tetrachloro-m-xylene	84%	22-141%
2051-24-3	Decachlorobiphenyl	66%	18-163%
2051-24-3	Decachlorobiphenyl	65%	18-163%

Method Blank Summary

Job Number: JB16302
Account: UTC United Technologies Corporation
Project: ENSTNN: Carrier, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59887-MB1	EF112882.D	1	09/19/12	GAD	09/19/12	OP59887	GEF4579

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB16302-1, JB16302-2, JB16302-3, JB16302-4, JB16302-5, JB16302-6, JB16302-7, JB16302-8, JB16302-9, JB16302-10, JB16302-11, JB16302-12, JB16302-13, JB16302-14, JB16302-15, JB16302-16, JB16302-17

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	8.7	ug/kg	
11104-28-2	Aroclor 1221	ND	33	20	ug/kg	
11141-16-5	Aroclor 1232	ND	33	17	ug/kg	
53469-21-9	Aroclor 1242	ND	33	11	ug/kg	
12672-29-6	Aroclor 1248	ND	33	10	ug/kg	
11097-69-1	Aroclor 1254	ND	33	16	ug/kg	
11096-82-5	Aroclor 1260	ND	33	11	ug/kg	
11100-14-4	Aroclor 1268	ND	33	9.8	ug/kg	
37324-23-5	Aroclor 1262	ND	33	11	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	93%	22-141%
877-09-8	Tetrachloro-m-xylene	106%	22-141%
2051-24-3	Decachlorobiphenyl	109%	18-163%
2051-24-3	Decachlorobiphenyl	101%	18-163%

Blank Spike Summary

Job Number: JB16302
Account: UTC United Technologies Corporation
Project: ENSTNN: Carrier, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59887-BS1	5G4989.D	1	09/19/12	HQ	09/19/12	OP59887	G5G123

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB16302-1, JB16302-2, JB16302-3, JB16302-4, JB16302-5, JB16302-6, JB16302-7, JB16302-8, JB16302-9, JB16302-10, JB16302-11, JB16302-12, JB16302-13, JB16302-14, JB16302-15, JB16302-16, JB16302-17

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	140	105	68-152
11104-28-2	Aroclor 1221		ND		70-130
11141-16-5	Aroclor 1232		ND		70-130
53469-21-9	Aroclor 1242		ND		70-130
12672-29-6	Aroclor 1248		ND		70-130
11097-69-1	Aroclor 1254		ND		70-130
11096-82-5	Aroclor 1260	133	136	102	66-150
11100-14-4	Aroclor 1268		ND		50-150 [a]
37324-23-5	Aroclor 1262		ND		50-150 [a]

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	82%	22-141%
877-09-8	Tetrachloro-m-xylene	97%	22-141%
2051-24-3	Decachlorobiphenyl	84%	18-163%
2051-24-3	Decachlorobiphenyl	82%	18-163%

(a) Advisory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB16302
Account: UTC United Technologies Corporation
Project: ENSTNN: Carrier, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59887-MS	5G5013.D	1	09/19/12	HQ	09/19/12	OP59887	G5G123
OP59887-MSD	5G5014.D	1	09/19/12	HQ	09/19/12	OP59887	G5G123
JB16302-1	5G4990.D	1	09/19/12	HQ	09/19/12	OP59887	G5G123

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB16302-1, JB16302-2, JB16302-3, JB16302-4, JB16302-5, JB16302-6, JB16302-7, JB16302-8, JB16302-9, JB16302-10, JB16302-11, JB16302-12, JB16302-13, JB16302-14, JB16302-15, JB16302-16, JB16302-17

CAS No.	Compound	JB16302-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		142	147	104	137	97	7	28-185/42
11104-28-2	Aroclor 1221	ND			ND		ND		nc	70-130/30
11141-16-5	Aroclor 1232	ND			ND		ND		nc	70-130/30
53469-21-9	Aroclor 1242	ND			ND		ND		nc	70-130/30
12672-29-6	Aroclor 1248	ND			ND		ND		nc	70-130/13
11097-69-1	Aroclor 1254	ND			ND		ND		nc	70-130/20
11096-82-5	Aroclor 1260	79.9		142	141	43	136	40	4	20-190/43
11100-14-4	Aroclor 1268	ND			ND		ND		nc	-/30
37324-23-5	Aroclor 1262	ND			ND		ND		nc	-/30

CAS No.	Surrogate Recoveries	MS	MSD	JB16302-1	Limits
877-09-8	Tetrachloro-m-xylene	81%	75%	48%	22-141%
877-09-8	Tetrachloro-m-xylene	96%	90%	59%	22-141%
2051-24-3	Decachlorobiphenyl	80%	77%	55%	18-163%
2051-24-3	Decachlorobiphenyl	77%	74%	57%	18-163%

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: JB16302
Account: UTC United Technologies Corporation
Project: ENSTNN: Carrier, Syracuse, NY

Method: SW846 8082A **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JB16302-1	5G4990.D	48.0	59.0	55.0	57.0
JB16302-2	5G4991.D	41.0	48.0	54.0	75.0
JB16302-3	5G4992.D	74.0	92.0	78.0	81.0
JB16302-4	5G4993.D	51.0	59.0	59.0	68.0
JB16302-5	5G4994.D	31.0	38.0	36.0	42.0
JB16302-6	5G4995.D	50.0	61.0	54.0	61.0
JB16302-7	5G4996.D	22.0	25.0	28.0	34.0
JB16302-8	5G4997.D	52.0	63.0	62.0	73.0
JB16302-9	EF112864.D	37.0	41.0	54.0	50.0
JB16302-10	EF112865.D	39.0	45.0	63.0	55.0
JB16302-11	EF112866.D	48.0	54.0	64.0	64.0
JB16302-12	EF112867.D	62.0	73.0	72.0	69.0
JB16302-13	EF112868.D	55.0	62.0	70.0	74.0
JB16302-14	EF112869.D	29.0	32.0	40.0	39.0
JB16302-15	XX124121.D	26.0	24.0	36.0	26.0
JB16302-16	XX124122.D	53.0	49.0	74.0	60.0
JB16302-17	XX124123.D	44.0	42.0	41.0	45.0
OP59887-BS1	5G4989.D	82.0	97.0	84.0	82.0
OP59887-MB1	5G4988.D	78.0	96.0	76.0	73.0
OP59887-MB1	XX124119.D	75.0	84.0	66.0	65.0
OP59887-MB1	EF112882.D	93.0	106.0	109.0	101.0
OP59887-MS	5G5013.D	81.0	96.0	80.0	77.0
OP59887-MSD	5G5014.D	75.0	90.0	77.0	74.0

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	22-141%
S2 = Decachlorobiphenyl	18-163%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2