February 7, 2012 PN: 41062464

Patrick Sbardelli
US General Services Administration
New England Region
U.S. General Services Administration
10 Causeway Street, 9th Floor
Boston, MA 02222
Delivered via email

RE: PCB REMEDIATION PROGRAM – PHASE 2
IRS SERVICE CENTER RENOVATION
ANDOVER, MA

Dear Mr. Sbardelli:

This letter report is being provided to you to summarize the results of phase 2 PCB investigations and status of planned PCB remediation for phase 2 of the renovation project at the Internal Revenue Service Center building located at in Andover, Massachusetts (IRS Service Center).

1.0 PCB CAULK INVESTIGATION

Between August 11, 2011 and February 3, 2012, URS conducted an investigation/survey of the caulk present in the phase 2 portion of the IRS Service Center. During the survey, exterior and interior caulk material was sampled from windows, penthouse louvers, doors and building expansion joints to determine the concentration of PCBs. Sampling was conducted by Denis Daudelin, Beth Faria and Benjamin Grigas of URS. Sampling of caulk took place on August 11, 2011, August 20, 2011 and November 2, 2011. Sampling of the brick substrate adjacent to the caulk took place on January 24, 2012 and February 3, 2012.

The caulking samples collected during the field survey were delivered under full chain-of-custody to Alpha Analytical in Westborough, Massachusetts for analysis of PCBs using EPA Method 8082 and EPA extraction method 3540C. Chain-of-custody procedures were maintained throughout this process to ensure sample integrity. Field duplicate and quality control samples were analyzed in accordance with acceptable QA/QC protocol to validate the data usability. Laboratory analytical results can be found as an attachment to the draft EPA submittal contained in Appendix A.

The results of the laboratory analysis identified concentrations from None Detected (ND) to 211,000 parts per million (ppm). Twenty-five of the 111 samples (including duplicates) collected were found to have a concentration above the Toxic Substances Control Act (TSCA) regulatory limit of 50 milligrams per kilogram (mg/kg). Therefore, this caulk and impacted substrate materials, if any, adjacent to it must be removed as bulk product waste in accordance with the U. S. Environmental Protection Agency (EPA) and Commonwealth of Massachusetts Department of Environmental Protection (Mass. DEP) regulations regarding PCB waste and the EPA New England Region PCB remediation approval letter dated March 23, 2011. The results of exterior caulk sample analysis are attached in Table 1. Table 2 presents the results of interior caulk sampling. Sample locations with detected concentrations above 50 ppm are highlighted in **bold** text on both of these tables. Note that these tables summarize total PCB results by sample location. A full table which breaks down the PCB concentrations by Arochlor is included as an attachment to the draft EPA submittal in Appendix A.

URS Corporation
5 Industrial Way
Salem, NH 03079
Tel: 603.893.0616
Fax: 603.893.6240

As further described below, GSA is proposing to limit the amount of adjacent substrate that is removed with the PCB caulk to firs 6 inches of brick/mortar/concrete. Brick samples were collected at three inch intervals out from select locations where PCB levels in caulk exceeded 50 ppm. The objective of collecting these samples was to determine the quantity of brick that needs to be removed with the window assembly to capture all of the PCBs. Per EPA TSCA requirements and the EPA approval, all materials adjacent to the caulk with PCBs greater than 1 ppm must be removed with the PCB bulk product waste. A total of 8 sample locations were chosen for adjacent brick analysis. Table 3 presents the results for the first six locations. The remaining two locations are pending as of the date of this interim report and will be provided as an addendum once the results are received.

2.0 REQUEST FOR MODIFICATION OF EPA APPROVAL

In a letter issued by EPA on March 23, 2011, EPA approved decontamination and disposal approach for the IRS Service Center to address PCBs found in caulk and in the adjacent PCB contaminated substrate. The GSA notification to EPA and EPA's approval identified three circumstances where PCB remediation was required, i.e. (1) PCB caulk in contact with concrete where the concrete was to remain; (2) PCB caulk in contact with brick fascia or steel lintels where the brick and steel are to remain, and (3) PCB caulk in assemblies (windows, door frames, louvers) where the entire assembly could be removed. EPA for circumstances (1) and (2) required caulk removal with subsequent encapsulation of the impacted materials that were to remain. In the third case, the complete assemblies were removed. EPA provided its approval citing the TSCA regulations at 40 CFR 761.62(a) and 40 CFR 761.79(h) for the removal and disposal of the caulk as bulk product waste and at 40 CFR 761.61(c) for the encapsulation of the impacted adjacent substrate. GSA implemented this program accordingly for phase 1.

As described above, URS undertook sampling and analysis of the caulk to define the scope of remediation that would be required in phase 2, based on identifying the locations where the concentration of PCBs in caulk exceeded 50 ppm. In conjunction with the investigation, approaches were considered that could limit the amount of material that would need to be disposed as PCB bulk product waste or the amount of subsequent encapsulation that would be required. On December 15, 2011, URS contacted Ms. Kim Tisa, TSCA Coordinator for EPA New England, to propose a modification of the approved plan that would allow GSA to remove the caulk and a fixed amount of adjacent substrate, with limited confirmatory testing. Ms. Tisa indicated that she was receptive to such a modification provided that:

- The proposed fixed depth/distance from the caulk is supported with a representative sampling program demonstrating the extent of PCB migration into the brick.
- To be appropriately representative, a cross section of sample locations needs to be included based both on concentrations of PCBs in caulk and upon the elevation/location of the windows, to account for variation in weather/sun exposure along the different faces of the building.
- The proposed depth is biased towards the conservative. For example if the sampling program showed PCBs had migrated no greater than 3 inches into the brick, to be conservative Ms. Tisa suggested we propose to remove windows and the first 6 inches of brick.

- With a properly supported and conservative rationale for selecting the depth, EPA would accept a reduced post-removal verification sampling program. Our proposed modification should accordingly include an appropriate, but limited, verification sampling program.

Appendix A to this letter report provides for GSA review and approval a draft submittal to EPA requesting a minor modification to EPA's March 23, 2011 approval which will allow the caulk removal to proceed along with a fixed minimum substrate removal depth of 6 inches. This modification request will be made in accordance with 40 CFR 761.61(a) (3) (ii) which requires that proposed changes to the approved program be submitted in writing to EPA, and that EPA will respond to the change notification verbally within 7 days and in writing within 14 days. If no response is received within 14 days, GSA may assume that change is acceptable. In addition, the March 23, 2011 EPA approval letter includes a condition that any modification of the approved program be submitted to EPA in writing at least 10 days prior to the change being implemented.

3.0 REVIEW OF CONTRACTOR PCB REMEDIATION WORK PLAN

Condition 10.a. of the March 23, 2011 EPA approval letter requires that the contractor selected to do the selected demolition and PCB abatement submit a work plan describing their anticipated means and methods for containment, air monitoring, waste storage, waste disposal and decontamination, i.e. the contractor work plan. During phase 1, the contractor work plans were provided by TMC Services, reviewed by URS and submitted to EPA. On January 27, 2012, GSA requested that URS complete a review of the contractor work plan, also prepared by TMC Services, for the phase 2 work. URS has completed this review, and a mark-up of the plan is included in Appendix B. Overall there were not significant concerns or required modifications to the plan identified during our review, other than the statement that their plan would not need to be submitted to EPA. It is URS' opinion that, as with phase 1, submittal of the phase 2 plan to EPA is required by the EPA approval letter, regardless of the fact that the caulk removal work is being done as a performance based disposal of bulk product waste under 40 CFR 761.62(a). Note that previously for phase 1 EPA has not commented on or required approval of the contractor work plans, but rather just reviewed and retained them for their records.

Please feel free to contact either of the undersigned at 603-893-0616 if you have any questions regarding this letter report.

Sincerely,
URS Corporation

Marilyn M. Wade, PE, LSP
PCB Task Manager

Raymond Cowan, CIH
Senior Project Manager

cc: R. Dilley, URS
C. Lawson, URS
T. Lazott, URS

TABLES

1 Exterior PCB Caulk Sample Results
2 Interior PCB Caulk Sample Results
3 Brick PCB Sample Results

APPENDICES

A Draft Request for Minor Modification of March 23, 2011 EPA Approval
B Mark-up of TMC Services Phase 2 Work Plan

TABLES

Table 1
PCB Extent in Exterior Caulk
IRS Service Center Renovation
Andover, MA

Sample Date	Location	Sample ID	Total PCB (ppm)
8/11/2011	Stair 1 - West - Door 1	ST1-W-D1	**22800**
8/11/2011	Penthouse 13 - South - Door 1 (8 labeled on door)	P13-S-D1	4.66
8/11/2011	Penthouse 13 (8 labeled on door) - East - louver 1	P13-E-L1	21.1
8/11/2011	Penthouse 13 (8 labeled on door) - East - louver 2	213-E-L1	7.53
8/11/2011	Penthouse 10 (7 labeled on door)- South - Door 1	P10-S-D1	ND
8/11/2011	Penthouse 10 (7 labeled on door) - East - louver 1	P10-E-L1	ND
8/11/2011	Penthouse 10 (7 labeled on door) - East - louver 2	P10-E-L2	ND
8/11/2011	Penthouse 10 (7 labeled on door) - North - louver 1	P10-N-L1	ND
8/11/2011	Penthouse 10 (7 labeled on door) - South - louver 1	P10-S-L1	ND
8/11/2011	Penthouse 8 (6 labeled on door) - South - Door 1	P08-S-D1	11.9
8/11/2011	Penthouse 8 (6 labeled on door) - East - louver 1	P08-E-L1	38
8/11/2011	Penthouse 8 (6 labeled on door) - East - louver 2	P08-E-L2	ND
8/11/2011	Penthouse 5 (10 labeled on door) - East - Door 1	P5-E-D1	**260**
8/11/2011	Penthouse 5 (10 labeled on door) - East - louver 1	P5-E-L1	3.54
8/11/2011	Penthouse 5 (10 labeled on door) - East - louver 2	P5-E-L2	ND
8/11/2011	Penthouse 5 (10 labeled on door) - North - louver 1	P5-N-L1	ND
8/11/2011	Penthouse 3 (12 labeled on door) - West - Door 1	P3-W-D1	4.6
8/11/2011	Penthouse 3 (12 labeled on door) - West - louver 1	P3-W-L1	4.15
8/11/2011	Penthouse 3 (12 labeled on door) - East - louver 1	P3-E-L1	0.25
8/11/2011	Penthouse 4 (11 labeled on door) - West - Door 1	P4-W-D1	2.32
8/11/2011	Penthouse 4 (11 labeled on door) - West - louver 1	P4-W-L1	11.37
8/11/2011	Penthouse 4 (11 labeled on door) - East - louver 1	P4-E-L1	1.01
8/11/2011	Penthouse 7 (3 labeled on door) - South - Door 1	P7-S-D1	13.2
8/11/2011	Penthouse 7 (3 labeled on door) - East - louver 1	P7-E-L1	7.14
8/11/2011	Penthouse 7 (3 labeled on door) - East - louver 2	P7-E-L2	1.68
8/20/2011	14 line, Column H, Window 1	14L-H-W1	**686**
8/20/2011	14 Line, Column H, Door 1	14L-H-D1	3.35
8/20/2011	14 Line, Column H, Door 2	14L-H-D2	ND
8/20/2011	12 Line, Column B, Door 1	12L-B-D1	ND
8/20/2011	12 Line, Column B, Door 2	12L-B-D2	3.67
8/20/2011	12 Line, Column B, Door 2 DUPLICATE	DUP1	3.46
8/20/2011	12 Line, Column BE, Door 1 and 3	12L-BE-D1	**4340**
8/20/2011	12 Line, Column BE, Door 1	12L-BE-D1 Duplicate	**4340**
8/20/2011	12 Line, Column BE, Door 3	DUP2	**1770**
8/20/2011	13 Line, Column AE, Window 1	13L-AE-W1	1.88
8/20/2011	13 Line, Column AE, Window 2	13L-AE-W2	1.88
8/20/2011	13 Line, Column AE, Window 3	13L-AE-W3	5.36
8/20/2011	13 Line, Column AE, Window 3 DUPLICATE	DUP5	11.6
8/20/2011	13 Line, Column AE, Window 4	13L-AE-W4	7.74

Table 1
PCB Extent in Exterior Caulk
IRS Service Center Renovation
Andover, MA

Sample Date	Location	Sample ID	Total PCB (ppm)
8/20/2011	13 Line, Column AE, Window 4	DUP6	6.47
8/20/2011	13 Line, Column AE, Window 5	13L-AE-W5	1.87
8/20/2011	13 Line, Column AE, Window 6	13L-AE-W6	37.9
8/20/2011	13 Line, Column AE, Window 7	13L-AE-W7	6.17
8/20/2011	13 Line, Column AE, Window 8	13L-AE-W8	3.58
8/20/2011	13 Line, Column AE, Window 9	13L-AE-W9	7.55
8/20/2011	13 Line, Column AE, Window 10	13L-AE-W10	16
8/20/2011	13 Line, Column AE, Window 11	13L-AE-W11	8.49
8/20/2011	13 Line, Column AE, Window 12	13L-AE-W12	ND
8/20/2011	13 Line, Column AE, Window 13	13L-AE-W13	14.2
8/20/2011	13 Line, Column AE, Window 14	13L-AE-W14	5.05
8/20/2011	13 Line, Column AE, Window 15	13L-AE-W15	4.09
8/20/2011	13 Line, Column AE, Window 16	13L-AE-W16	6.73
8/20/2011	13 Line, Column AE, Window 17	13L-AE-W17	8.1
8/20/2011	13 Line, Column AE, Window 18	13L-AE-W18	7.09
8/20/2011	13 Line, Column AE, Window 19	13L-AE-W19	2.24
8/20/2011	13 Line, Column AE, Window 20	13L-AE-W20	1.96
8/20/2011	13 Line, Column AE, Window 21	13L-AE-W21	6.35
8/20/2011	13 Line, Column AE, Window 22	13L-AE-W22	3.7
8/20/2011	13 Line, Column AE, Window 23	13L-AE-W23	3.66
8/20/2011	13 Line, Column AE, Window 24	13L-AE-W24	3.24
8/20/2011	13 Line, Column AE, Window 25	13L-AE-W25	3.06
8/20/2011	13 Line, Column AE, Window 26	13L-AE-W26	2.39
8/20/2011	13 Line, Column AE, Window 27	13L-AE-W27	4.6
8/20/2011	13 Line, Column AE, Window 28	13L-AE-W28	8.95
8/20/2011	13 Line, Column AE, Window 29	13L-AE-W29	**201**
8/20/2011	13 Line, Column AE, Window 30	13L-AE-W30	3.78
8/20/2011	14 Line, Louver 1	14L-Louver1	ND
8/20/2011	14 Line, Louver 1 DUPLICATE	DUP3	ND
8/20/2011	13 Line, Column AE, Door 1	13L-AE-D1	16.2
8/20/2011	6 Line, Column DE, Window 1	6L-DE-W1	**193**
8/20/2011	6 Line, Column CE, Window 1	6L-CE-W1	**386**
8/20/2011	6 Line, Column B, Window 1	6L-B-W1	**211000**
8/20/2011	6 Line, Column B, Door 1	6L-B-D1	19.5
8/20/2011	6 Line, Column BE, Door 1	6L-BE-D1	**87.9**
8/20/2011	6 Line, Column B, Window 2	6L-B-W2	**198000**
8/20/2011	12 Line, Column AE, Door 2	10L-AE-D2	14.6
8/20/2011	12 Line, Column AE, Door 3	12L-AE-D3	4.76
8/20/2011	10 Line, Column AE, Door 2, DUPLICATE	DUP4	2.55

Table 1
PCB Extent in Exterior Caulk
IRS Service Center Renovation
Andover, MA

Sample Date	Location	Sample ID	Total PCB (ppm)
8/20/2011	12 Line, Column AE, Window 5, DUPLICATE	DUP 7	13.3
11/2/2011	14 Line, Column H, Expansion Joint	14 Line Column H	**2010**
11/2/2011	14 Line, Column F, Expansion Joint	14 Line Column F	**52600**
11/2/2011	14 Line, Column E, Expansion Joint	14 Line Column E	**37400**
11/2/2011	14 Line, Column D, Expansion Joint	14 Line, Column D	**92700**
11/2/2011	14 Line, Column C, Expansion Joint	14 Line Column C	**8400**
11/2/2011	14 Line, Column B, Expansion Joint	14 Line column B	**19700**
11/2/2011	13.3 Line, Column B, Expansion Joint	B Line Column 13.3	**3010**
11/2/2011	13 Line, Column B, Expansion Joint	B Line Column 13	**14200**
11/2/2011	11 Line, Column AE, Expansion Joint	AE Line Column 11	**24600**
11/2/2011	10 Line, Column AE, Expansion Joint	AE Line Column 10	**22100**
11/2/2011	9 Line, Column AE, Expansion Joint	AE Line Column 9	**30600**
11/2/2011	8 Line, Column AE, Expansion Joint	AE Line Column 8	**44400**
11/2/2011	7 Line, Column AE, Expansion Joint	AE Line Column 7	**78000**

NOTE:

Detected values above the TSCA 50 ppm threshold are highlighted with **BOLD** text

Table 2
PCB Content in Interior Caulk
Phase 2 IRS Service Center Renovation
Andover, Massachusetts

Sample Date	Location	Sample ID	Total PCB (ppm)
8/20/2011	Interior, Door 11, Men's Room - 0735	IN-D11-MR	42.9
8/20/2011	Interior, Door 12, Electrical Room 0733; #7B	IN-D12-ER	28
8/20/2011	Interior, Door 13, West Emergency Exit	IN-D13-WE	10.6
8/20/2011	Interior, Door 14, Deligation Building	IN-D14-DB	8.82
8/20/2011	Interior, Door 15, Utility Room	IN-D15-UR	45.9
8/20/2011	Interior, Door 16, Computer Room	IN-D16-CC	5.17
8/20/2011	Interior, Door 17, Computer Room 5	IN-D17-CR5	3.04
8/20/2011	Interior, Door 18, Loading Dock	IN-D18-LD	0.733
8/20/2011	Interior, Window 1, MDF Room 5	IN-W1-MDF-5	6.04
8/20/2011	Interior, Window 2, MDF Room 5	IN-W2-MDF-5	6.18
8/20/2011	Interior, Door 1, Loading Dock	IN-D1-LD	15.2
8/20/2011	Interior, Door 2, Loading Dock	IN-D2-LD	11.37
8/20/2011	Interior, Door 3, Loading Dock	IN-D3-LD	4.78
8/20/2011	Interior, Door 4, Facility Corridor	IN-D4-FC	28
8/20/2011	Interior, Door 5, Main Entrance - Guard Station	IN-D5-ME	1.44
8/20/2011	Interior, Door 6, Men's Room Door Frame	IN-D6-MR	12.28
8/20/2011	Interior, Door 7, Woman's Room Door Frame	IN-D7-WR	12.34
8/20/2011	Interior, Door 8, Main Corridor - Double Electric Doors	IN-D8-MC	9.47
8/20/2011	Interior, Door 9, Phase Line Door	IN-D9-PHL	44.9
8/20/2011	Interior, Door 10, West Entrance Revolving Door	IN-D10-WES	ND

NOTE:

Detected values above the TSCA 50 ppm threshold are highlighted with **BOLD** text

Table 3
PCB Content in Brick Adjacent to Caulk
Phase 2 IRS Service Center Renovation
Andover, Massachusetts

Sample Date	Location	Sample ID	Total PCB (ppm)
1/24/2012	6 Line, Column DE, Window 1, 0-3”	6L-DE-W1/0-3	0.123
1/24/2012	6 Line, Column DE, Window 1, 3-6”	6L-DE-W1/3-6	0.237
1/24/2012	6 Line, Column DE, Window 1, 6-9”	6L-DE-W1/6-6	0.268
1/24/2012	Exterior, AE Line Column 10, 0-3”	AE-D-EJ/0-3	0.564
1/24/2012	Exterior, AE Line Column 10, 0-3 DUP	AE-D-EJ/0-3/DUP	0.618
1/24/2012	Exterior, AE Line Column 10, 3-6”	AE-D-EJ/0-3-6	0.2221
1/24/2012	Exterior, AE Line Column 10, 6-9”	AE-D-EJ/0-6-9	0.242
1/24/2012	13 Line, Column AE, Window 29, 0-3”	13L-AE-W29/0-3	0.422
1/24/2012	13 Line, Column AE, Window 29, 3-6”	13L-AE-W29/3-6	0.402
1/24/2012	13 Line, Column AE, Window 29, 6-9”	13L-AE-W29/6-9	0.45
1/24/2012	12 Line, Column EB, Door 3, 0-3”	12L-BE-D3/0-3	ND
1/24/2012	12 Line, Column EB, Door 3, 0-3”	12L-BE-D3/3-6	ND
1/24/2012	12 Line, Column EB, Door 3, 0-3”	12L-BE-D3/3-6-9	ND
1/24/2012	Exterior B Line Column 13, 0-3”	6L-B-EJ/0-3	0.568
1/24/2012	Exterior B Line Column 13, 3-6”	6L-B-EJ/3-6	ND
1/24/2012	Exterior B Line Column 13, 6-9”	6L-B-EJ/6-9	0.0629
1/24/2012	Exterior, 14 Line Column E, 0-3”	14-E-EJ/0-3	1.11
1/24/2012	Exterior, 14 Line Column E, 0-3 DUP	14-E-EJ/0-3/DUP	1.25
1/24/2012	Exterior, 14 Line Column E, 3-6”	14-E-EJ/3-6	0.46
1/24/2012	Exterior, 14 Line Column E, 6-9”	14-E-EJ/6-9	0.0762
2/3/2012	6 Line, Column B, Window 1,0-3"	6L-B-W1/0-3	0.16
2/3/2012	6 Line, Column B, Window 1, 3-6"	6L-B-W1/3-6	ND
2/3/2012	6 Line, Column B, Window 1, 6-9"	6L-B-W1/6-9	ND
2/3/2012	14 Line, Column D, Expansion Joint, 0-3"	14L-D-EJ/0-3"	7.16
2/3/2012	14 Line, Column D, Expansion Joint, 3-6"	14L-D-EJ/3-6"	0.1
2/3/2012	14 Line, Column D, Expansion Joint, 6-9"	14L-D-EJ/6-9"	0.07

NOTE:

Detected values above the TSCA 50 ppm threshold are highlighted with **BOLD** text

Appendix A

Draft Request for Minor Modification of March 23, 2011 EPA Approval

DRAFT FOR GSA REVIEW PRIOR TO SUBMITTAL TO EPA
DO NOT DISTRIBUTE OR DISCLOSE

Prepared for:

U.S. General Services Administration
GSA Public Buildings Service
New England Region
10 Causeway Street, 9th Floor
Boston, MA 02222

Prepared by:

URS Corporation
5 Industrial Way
Salem, New Hampshire 03079

Post-Phase I Report and Requested Amendment to PCB Cleanup Plan IRS Service Center Renovation Andover, Massachusetts

PN: 41062464
February 7, 2012

TABLE OF CONTENTS

Section **Page**

1.0 INTRODUCTION..... 1

1.1 Contact and Certification 1

2.0 SITE BACKGROUND & PHASE II CHARACTERIZATION 3

2.1 Phase II Site Characterization 3

2.2 Estimate of Linear Feet of Caulk 5

3.0 CLEANUP PLAN AMENDMENT 6

3.1 Plan Modification..... 6

3.2 Post-Removal Verification..... 7

4.0 PROJECT NOTIFICATION AND ENCAPSULATION SAMPLING..... 8

TABLES

Table 1 – Exterior Caulk Sample Results
Table 2 – Adjacent Brick Sample Results

APPENDICES

Appendix A – Laboratory Reports
Appendix B – Sheets 1 – 5; Caulk and Brick Sample Locations

1.0 INTRODUCTION

On behalf of the U.S. General Services Administration (GSA), URS Corporation (URS) has prepared this post-phase I report and amendment (Amendment) to the approved plan for cleanup of polychlorinated biphenyls (PCBs) under the Toxic Substances Control Act (TSCA) at the IRS Service Center in Andover, Massachusetts (the Site). The U.S. Environmental Protection Agency (EPA) approved the PCB cleanup plan for the Site in their letter dated March 23, 2011 (EPA Approval). This amendment has been prepared in accordance with condition 21 of the EPA Approval, the TSCA requirements outlined in 40 CFR 761.62(a) and 40 CFR 761.79(h) and discussion between URS and the EPA Region 1 TSCA Coordinator. The PCB cleanup is being implemented in conjunction with the redevelopment work at the site. The purpose of this Amendment is to: 1.) provide notification of the date of commencement of Phase II work at the Site as required by the EPA Approval (condition #11); 2.) propose a sampling frequency for Phase II post encapsulation verification (condition #11); and 3.) amend the approved cleanup plan (per condition #21) to reduce the scope and quantity of removal for substrate building materials located adjacent to identified PCB caulk at the site.

Analytical data obtained in January and February 2012 confirms that the levels of PCBs in the adjacent substrate material are below the one (1) ppm cleanup criteria at a depth of 3 to 6 inches out from the impacted caulk.

1.1 Contact and Certification

The GSA person providing this notification and certification who will be responsible for this project is Mr. Surran Drew Dilks, Authorized Signatory for GSA. His contact information is provided below:

Surran Drew Dilks, PE
Project Management Branch Chief
Design and Construction Division
Public Buildings Service
New England Region
U.S. General Services Administration
10 Causeway Street
Boston, MA 02222
Office (617)565-8616

I certify that I am the person in charge of the PCB cleanup, representing the owner of the property where the PCB remediation waste is located. I certify that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the cleanup site are on file at the location designated above and are available for EPA inspection.

U.S. General Services Administration

_____ _____

Surran Drew Dilks Date
Authorized Signatory

2.0 SITE BACKGROUND & PHASE II CHARACTERIZATION

On October 2, 2009 GSA initiated building renovation activities at an approximately 36 acre site in Andover, Massachusetts, which is currently occupied by the IRS. GSA is renovating the IRS Service Center located at 310 Lowell Street in Andover, Massachusetts to modernize outdated building systems, provide updated interior finishes, and reconfigure space for the IRS. As the nation moves toward electronic filing of taxes, the space use of this facility will change from tax processing to office use. This project will serve to make a flexible workspace in an effort to keep up with the changing requirements for the IRS. The work items that will be undertaken as part of the modernization include the replacement of select windows and exterior wall penetrations and repair of their associated infrastructure, roof replacement, replacement of interior finishes, and removal, repair or replacement of various building systems including plumbing, HVAC, electrical and lighting, fire protection and security.

The IRS building renovation is being conducted while the building is still occupied, and as such, has been done in two phases. Once Phase I was completed, the occupants were to be moved into the renovated Phase I space to allow for completion of Phase II work. Phase I renovation is now complete, and the occupant transition is nearing completion. The Phase I site characterization, cleanup plan submittals and EPA Approval have been provided previously and are not reproduced here.

2.1 Phase II Site Characterization

Between August 11, 2011 and February 3, 2012, URS conducted an investigation/survey of the caulk present in the Phase II portion of the IRS Service Center. During the survey, exterior and interior caulk material was sampled from windows, penthouse louvers, doors and building expansion joints to determine the concentration of PCBs. Sampling of caulk took place on August 11, 2011, August 20, 2011 and November 2, 2011. Sampling of the brick substrate adjacent to the caulk took place on January 24, 2012 and February 3, 2012.

The caulking samples collected during the field survey were delivered under full chain-of-custody to Alpha Analytical in Westborough, Massachusetts for analysis of PCBs using EPA Method 8082 and EPA extraction method 3540C. Chain-of-custody procedures were maintained throughout this process to ensure sample integrity. Field duplicate and quality control samples were analyzed in accordance with acceptable QA/QC protocol to validate the data usability. Laboratory analytical results can be found in Appendix A. Alpha Analytical had previously submitted during Phase I the certification required by condition 10.c. of the EPA Approval. A copy of this certification is included in Appendix A.

The results of the laboratory analysis identified concentrations from None Detected (ND) to 211,000 parts per million (ppm). Twenty-five of the 112 samples (including duplicates) collected were found to have a concentration above the Toxic Substances Control Act (TSCA) regulatory limit of 50 milligrams per kilogram (mg/kg). Therefore, this caulk and impacted substrate materials, if any, adjacent to it must be removed as bulk product waste in accordance with the EPA and Commonwealth of Massachusetts Department of Environmental Protection (Mass. DEP) regulations regarding PCB waste and the EPA Approval.

A total of 24 locations were identified with PCBs exceeding 50 ppm, including 11 exterior window or door locations and 13 exterior expansion joint locations. The PCB concentrations from these 24 exterior locations ranged from 87.9 ppm to 211,000 ppm. There were no PCBs detected above laboratory reporting limits at 12 of the exterior caulk sample locations. The caulk from the remaining 48 exterior locations contained detectable PCBs at levels that ranged from 0.25 ppm to 37.9 ppm. The average PCB concentration in exterior caulk for all locations with detectable levels of PCBs is 11,066 ppm. The sample locations with total PCB results above 50 ppm are listed on the attached Table 1. Appendix B provides a markup of the project architectural drawings showing the specific locations of these samples. Appendix A contains a complete table of all the Phase II analytical results along with the full laboratory reports for each sampling event.

A total of 20 interior door caulk sample locations were identified and sampled. None of the interior caulk samples had results in excess of 50 ppm of PCBs. The concentration of PCBs in interior caulk samples ranged from ND to 45.9 ppm. The average concentration of PCBs in interior caulk was 15.6 ppm. Interior caulk sample results are included in Appendix A.

As further described below, GSA is proposing to limit the amount of adjacent substrate that is removed with the PCB caulk to the first six inches of brick/mortar/concrete. Brick samples were collected at three inch intervals out from a subset of the locations where PCB levels in caulk exceeded 50 ppm. The objective of collecting these samples was to determine the quantity of brick that needs to be removed with the window, door or joint assembly to capture all of the PCBs. Per EPA TSCA requirements and the EPA approval, all materials adjacent to the caulk with PCBs greater than 1 ppm must be removed with the PCB bulk product waste.

Sample locations were selected to be representative of a range of PCB concentrations and weather exposure. A total of eight sample locations were chosen for adjacent brick analysis. Samples were collected from the south (grid lines 12 and 14), north (grid line 6) and east (grid line AE) sides of the building as well as within the south side alcove (grid lines B and BE). Brick samples were collected from locations with adjacent caulk concentrations ranging from 193 ppm to 211,000 ppm. Three samples were collected at each brick sampling location, one from within 0 to 3 inches of the caulk, one within 3 to 6 inches of the caulk, and one greater than 6 inches away from the caulk. Samples were collected using an impact hammer and generally following the guidelines contained in the 1997 EPA Region 1 *Draft Standard Operating Procedures for Sampling Concrete in the Field*.

Table 2 presents the results for the brick sample locations. At 6 of the 8 sample locations, there were no detections of PCBs in the adjacent substrate above the 1 ppm TSCA cleanup criteria. At the remaining 2 locations, only the first depth interval (i.e. samples from the 0 to 3 inch range) had PCBs above 1 ppm, with the maximum PCB in this range at 7.1 ppm. All samples in the 3 inch to 6 inch range and at depths greater than 6 inches were below 1 ppm for PCBs.

2.2 Estimate of Linear Feet of Caulk

Based on the Phase II results described above, and assuming approximately 30 linear feet for each window or door, and 20 linear feet for each expansion joint, the total estimated number of linear feet of caulk requiring remediation in Phase II is 590 linear feet.

3.0 CLEANUP PLAN AMENDMENT

The primary components of the cleanup plan for the PCB impacted caulk at the Site as provided in the EPA Approval include the following:

- For PCBs in concrete foundation walls or concrete precast panels that are to remain, remove PCB caulk and dispose, encapsulate by coating porous surfaces with two coats of epoxy and replace caulk.
- For PCBs in steel lintels or brick fascia along the roofline, remove PCB caulk and dispose, encapsulate by installing rubber membrane and steel flashing over affected area and replace caulk.
- For PCB caulk in window or door assemblies, louvers, or other assemblies that will not remain after renovation, remove the entire assembly and dispose.

EPA provided its approval for this approach citing the TSCA regulations at 40 CFR 761.62(a) and 40 CFR 761.79(h) for the removal and disposal of the caulk as bulk product waste and at 40 CFR 761.61(c) for the encapsulation of the impacted adjacent substrate. GSA implemented this program accordingly for Phase I and will continue to implement this program during Phase II with the following minor modification.

3.1 Plan Modification

As described above, URS undertook sampling and analysis of the caulk to define the scope of remediation that would be required in Phase II, based on identifying the locations where the concentration of PCBs in caulk exceeded 50 ppm. In conjunction with the investigation, approaches were considered that could limit the amount of material that would need to be disposed as PCB bulk product waste or the amount of subsequent encapsulation that would be required.

On December 15, 2011, URS contacted Ms. Kim Tisa, TSCA Coordinator for EPA New England, to propose a modification of the approved plan that would allow GSA to remove the caulk and a fixed amount of adjacent substrate, with limited confirmatory testing. Ms. Tisa indicated that she was receptive to such a modification provided that:

- The proposed fixed depth/distance from the caulk is supported with a representative sampling program demonstrating the extent of PCB migration into the brick.
- To be appropriately representative, a cross section of sample locations needs to be included based both on concentrations of PCBs in caulk and upon the elevation/location of the windows, to account for variation in weather/sun exposure along the different faces of the building.
- The proposed depth is biased towards the conservative. For example, if the sampling program showed PCBs had migrated no greater than 3 inches into the brick, to be conservative, Ms. Tisa suggested we propose to remove windows and the first 6 inches of brick.

During Phase I, because of time constraints and the nature of the proposed renovation, entire walls, full window assemblies and adjoining concrete columns and beams as needed were removed and disposed. Based on the results of the representative brick sampling described above, GSA proposes to modify the EPA approved plan to limit the amount of substrate material that will be removed during Phase II along with the PCB caulk to the first 6 inches. Both the caulk, the expansion joint, window or door assembly as applicable, and the adjoining 6 inches of substrate will be disposed as PCB bulk product waste > 50 ppm of PCBs. New brick and/or caulk will be installed and the renovation will be considered complete. No encapsulation will be provided in areas remediated in this manner

3.2 Post-Removal Verification

To confirm that the PCB impacted caulk has been adequately removed, representative verification sampling will be utilized. GSA proposes to collect one sample for every four caulk/assembly/substrate location that is remediated in this manner. Depending upon whether this is a window, door or expansion joint, this will result in an estimated one sample for every 80 to 120 linear feet of caulk. Bulk samples of the brick will be collected from the 0 to 3 inch depth interval adjacent to the removed substrate, using an impact hammer and generally following the guidelines contained in the 1997 U.S. EPA Region 1 *Draft Standard Operating Procedures for Sampling Concrete in the Field*.

If post-removal verification indicates that the substrate exhibits a concentration of PCBs in excess of 1 ppm, GSA will evaluate the location and planned renovation. Either an additional 6 inches of substrate material will be removed and the area re-sampled, or the encapsulation procedures provided in the EPA Approval will be followed.

The data quality objective is to achieve sufficient quality to support the conclusion that the cleanup performance standards have been met. The TSCA required analytical process will be followed, and as with the prior sampling, chemical extraction will be completed using EPA Method 3540C and chemical analysis of PCBs (Aroclors) will be conducted using EPA Method 8082. Sampling equipment will be decontaminated in accordance with TSCA requirements.

4.0 PROJECT NOTIFICATION AND ENCAPSULATION SAMPLING

In the EPA Approval, condition #11 requires that GSA provide notification to EPA of the start date for the Phase II construction. Accordingly, this submittal to EPA serves as notice that the Phase II construction is scheduled to commence on February 13, 2012

Condition #11 of the EPA Approval also requires GSA to submit to EPA a post-encapsulation sampling plan for Phase II encapsulated surfaces. This sampling plan is described as follows.

During Phase I, in accordance with condition #13 of the EPA Approval, post-encapsulation samples were collected from the epoxy coated encapsulated areas. Post-encapsulation sampling was not possible for the areas of brick fascia and steel lintel encapsulated by membrane and metal flashing, and the porous surfaces they covered were completely enclosed by the overlying structural materials. A total of 5 representative wipe samples were collected from epoxy encapsulated porous surfaces on July 22, 2011. All but one of these 5 locations met the 1 microgram per 100 square centimeters ($\mu g/100\ cm^2$) cleanup standard. One sample, taken from sector B, east wall caulk area between concrete precast panels, did not meet the requirements as the analytical result showed 2.68 $\mu g/\ 100\ cm^2$ at this location. The location was re-treated with epoxy and resampled on December 9, 2011. The results of this resampling indicated that the area passed the 1 $\mu g/100\ cm^2$ criteria. Laboratory reports for the Phase I post-encapsulation wipe samples are included in Appendix A.

For Phase II, and estimated 590 linear feet of caulk will be abated, of which approximately 216 linear feet will subsequently require encapsulation of the remaining substrate porous surface. GSA proposes to collect a total of three post-encapsulation samples in Phase II, or approximately one sample per every 70 linear feet. Note that this frequency represents sampling 3 of the anticipated 7 window locations where encapsulation is anticipated.

Standard wipe sampling procedures will be followed, including:

- Prepared hexane wipes and sample jars will be obtained from the laboratory
- Sample locations will be visually inspected and free of debris
- Sample location will be marked and a 100 cm^2 target affixed
- Sampler will don gloves and remove wipe from sample jar
- Applying pressure, target area will be wiped completely twice, from left to right and then top to bottom
- The wipe will be folded sample side in, returned to the sample jar, capped and labeled
- The sample location will be photographed and field notes completed to document locations, date and time of sampling and an issues or problems encountered
- Proper chain of custody will be completed and the samples delivered to the lab for subsequent analysis.

The data quality objectives for collection of the post-encapsulation sampling are to satisfy the requirements of condition #13 of the EPA Approval, and to provide data of sufficient quality to support the conclusion that the cleanup performance standards have been met, i.e. that the encapsulation process is complete, and that the encapsulation has adequately eliminated the potential for contact with the underlying PCB impacted porous surface.

The TSCA required analytical process will be followed, and as with the prior sampling, chemical extraction will be completed using EPA Method 3540C and chemical analysis of PCBs (Aroclors) will be conducted using EPA Method 8082. Laboratory narratives will be required to document laboratory quality control procedures and will be reviewed to verify the necessary levels of precisions, accuracy, representativeness and completeness of the data generated during the cleanup.

TABLES

Table 1
PCB Extent and Abatement Approach
Exterior Caulk
IRS Service Center Renovation
Andover, MA

Sample Date	Location	Sample ID	Total PCB (ppm)	Anticipated Abatement Approach
8/11/2011	Stair 1 - West - Door 1	ST1-W-D1	**22800**	Remove complete door assembly (no adjacent porous surface)
8/11/2011	Penthouse 5 (10 labeled on door) - East - Door 1	P5-E-D1	**260**	Remove complete door assembly (no adjacent porous surface)
8/20/2011	14 line, Column H, Window 1	14L-H-W1	**686**	Remove window assembly and adjacent 6 inches of substrate
8/20/2011	12 Line, Column BE, Door 1 and 3	12L-BE-D1	**4340**	Remove door only, encapsulate remaining substrate
8/20/2011	12 Line, Column BE, Door 1	12L-BE-D1 Duplicate	**4340**	Remove door only, encapsulate remaining substrate
8/20/2011	12 Line, Column BE, Door 3	DUP2	**1770**	Remove door only, encapsulate remaining substrate
8/20/2011	13 Line, Column AE, Window 29	13L-AE-W29	**201**	Remove window only, encapsulate remaining substrate
8/20/2011	6 Line, Column DE, Window 1	6L-DE-W1	**193**	Remove window only, encapsulate remaining substrate
8/20/2011	6 Line, Column CE, Window 1	6L-CE-W1	**386**	Remove window assembly and adjacent 6 inches of substrate
8/20/2011	6 Line, Column B, Window 1	6L-B-W1	**211000**	Remove window only, encapsulate remaining substrate
8/20/2011	6 Line, Column BE, Door 1	6L-BE-D1	**87.9**	Remove door assembly and adjacent 6 inches of substrate
8/20/2011	6 Line, Column B, Window 2	6L-B-W2	**198000**	Remove window only, encapsulate remaining substrate
11/2/2011	14 Line, Column H, Expansion Joint	14 Line Column H	**2010**	Remove expansion joint and adjacent 6 inches of substrate
11/2/2011	14 Line, Column F, Expansion Joint	14 Line Column F	**52600**	Remove expansion joint and adjacent 6 inches of substrate
11/2/2011	14 Line, Column E, Expansion Joint	14 Line Column E	**37400**	Remove expansion joint and adjacent 6 inches of substrate

Table 1
PCB Extent and Abatement Approach
Exterior Caulk
IRS Service Center Renovation
Andover, MA

Sample Date	Location	Sample ID	Total PCB (ppm)	Anticipated Abatement Approach
11/2/2011	14 Line, Column D, Expansion Joint	14 Line, Column D	**92700**	Remove expansion joint and adjacent 6 inches of substrate
11/2/2011	14 Line, Column C, Expansion Joint	14 Line Column C	**8400**	Remove expansion joint and adjacent 6 inches of substrate
11/2/2011	14 Line, Column B, Expansion Joint	14 Line column B	**19700**	Remove expansion joint and adjacent 6 inches of substrate
11/2/2011	13.3 Line, Column B, Expansion Joint	B Line Column 13.3	**3010**	Remove expansion joint and adjacent 6 inches of substrate
11/2/2011	13 Line, Column B, Expansion Joint	B Line Column 13	**14200**	Remove expansion joint and adjacent 6 inches of substrate
11/2/2011	11 Line, Column AE, Expansion Joint	AE Line Column 11	**24600**	Remove expansion joint and adjacent 6 inches of substrate
11/2/2011	10 Line, Column AE, Expansion Joint	AE Line Column 10	**22100**	Remove expansion joint and adjacent 6 inches of substrate
11/2/2011	9 Line, Column AE, Expansion Joint	AE Line Column 9	**30600**	Remove expansion joint and adjacent 6 inches of substrate
11/2/2011	8 Line, Column AE, Expansion Joint	AE Line Column 8	**44400**	Remove expansion joint and adjacent 6 inches of substrate
11/2/2011	7 Line, Column AE, Expansion Joint	AE Line Column 7	**78000**	Remove expansion joint and adjacent 6 inches of substrate

NOTE:

Detected values above the TSCA 50 ppm threshold are highlighted with **BOLD** text

Table 2
PCB Content in Brick Adjacent to Caulk
Phase 2 IRS Service Center Renovation
Andover, Massachusetts

Sample Date	Location	Sample ID	Total PCB (ppm)
1/24/2012	6 Line, Column DE, Window 1, 0-3”	6L-DE-W1/0-3	0.123
1/24/2012	6 Line, Column DE, Window 1, 3-6”	6L-DE-W1/3-6	0.237
1/24/2012	6 Line, Column DE, Window 1, 6-9”	6L-DE-W1/6-6	0.268
1/24/2012	Exterior, AE Line Column 10, 0-3”	AE-D-EJ/0-3	0.564
1/24/2012	Exterior, AE Line Column 10, 0-3 DUP	AE-D-EJ/0-3/DUP	0.618
1/24/2012	Exterior, AE Line Column 10, 3-6”	AE-D-EJ/0-3-6	0.2221
1/24/2012	Exterior, AE Line Column 10, 6-9”	AE-D-EJ/0-6-9	0.242
1/24/2012	13 Line, Column AE, Window 29, 0-3”	13L-AE-W29/0-3	0.422
1/24/2012	13 Line, Column AE, Window 29, 3-6”	13L-AE-W29/3-6	0.402
1/24/2012	13 Line, Column AE, Window 29, 6-9”	13L-AE-W29/6-9	0.45
1/24/2012	12 Line, Column EB, Door 3, 0-3”	12L-BE-D3/0-3	ND
1/24/2012	12 Line, Column EB, Door 3, 0-3”	12L-BE-D3/3-6	ND
1/24/2012	12 Line, Column EB, Door 3, 0-3”	12L-BE-D3/3-6-9	ND
1/24/2012	Exterior B Line Column 13, 0-3”	6L-B-EJ/0-3	0.568
1/24/2012	Exterior B Line Column 13, 3-6”	6L-B-EJ/3-6	ND
1/24/2012	Exterior B Line Column 13, 6-9”	6L-B-EJ/6-9	0.0629
1/24/2012	Exterior, 14 Line Column E, 0-3”	14-E-EJ/0-3	1.11
1/24/2012	Exterior, 14 Line Column E, 0-3 DUP	14-E-EJ/0-3/DUP	1.25
1/24/2012	Exterior, 14 Line Column E, 3-6”	14-E-EJ/3-6	0.46
1/24/2012	Exterior, 14 Line Column E, 6-9”	14-E-EJ/6-9	0.0762
2/3/2012	6 Line, Column B, Window 1,0-3"	6L-B-W1/0-3	0.16
2/3/2012	6 Line, Column B, Window 1, 3-6"	6L-B-W1/3-6	ND
2/3/2012	6 Line, Column B, Window 1, 6-9"	6L-B-W1/6-9	ND
2/3/2012	14 Line, Column D, Expansion Joint, 0-3"	14L-D-EJ/0-3"	7.16
2/3/2012	14 Line, Column D, Expansion Joint, 3-6"	14L-D-EJ/3-6"	0.1
2/3/2012	14 Line, Column D, Expansion Joint, 6-9"	14L-D-EJ/6-9"	0.07

Appendix A

Laboratory Reports

Phase II PCB Results
Analytical Data Tracking Spreadsheet
GSA - Andover, MA

Sample Date	Location	Alpha Lab ID	Sample ID	Aroclor 1254 (ppm)	Aroclor 1260 (ppm)	Aroclor 1242 (ppm)	Aroclor 1248 (ppm)	Total PCB
8/11/2011	Stair 1 - West - Door 1	L1112383-01	ST1-W-D1	22800				**22800**
8/11/2011	Penthouse 13 - South - Door 1	L1112383-02	P13-S-D1	3.25	1.41			4.66
8/11/2011	Penthouse 13 - East - louver 1	L1112383-03	P13-E-L1	21.1				21.1
8/11/2011	Penthouse 13 - East - louver 2	L1112383-04	213-E-L1	7.53				7.53
8/11/2011	Penthouse 10 - South - Door 1	L1112383-05	P10-S-D1					ND
8/11/2011	Penthouse 10 - East - louver 1	L1112383-06	P10-E-L1					ND
8/11/2011	Penthouse 10 - East - louver 2	L1112383-07	P10-E-L2					ND
8/11/2011	Penthouse 10 - North - louver 1	L1112383-08	P10-N-L1					ND
8/11/2011	Penthouse 10 - South - louver 1	L1112383-09	P10-S-L1					ND
8/11/2011	Penthouse 8 - South - Door 1	L1112383-10	P08-S-D1	11.9				11.9
8/11/2011	Penthouse 8 - East - louver 1	L1112383-11	P08-E-L1	38				38
8/11/2011	Penthouse 8 - East - louver 2	L1112383-12	P08-E-L2					ND
8/11/2011	Penthouse 5 - East - Door 1	L1112383-13	P5-E-D1		260			**260**
8/11/2011	Penthouse 5 - East - louver 1	L1112383-14	P5-E-L1				3.54	3.54
8/11/2011	Penthouse 5 - East - louver 2	L1112383-15	P5-E-L2					ND
8/11/2011	Penthouse 5 - North - louver 1	L1112383-16	P5-N-L1					ND
8/11/2011	Penthouse 3 - West - Door 1	L1112383-17	P3-W-D1	4.6				4.6
8/11/2011	Penthouse 3 - West - louver 1	L1112383-18	P3-W-L1	4.15				4.15
8/11/2011	Penthouse 3 - East - louver 1	L1112383-19	P3-E-L1				0.251	0.251
8/11/2011	Penthouse 4 - West - Door 1	L1112383-20	P4-W-D1	1.59	0.735			2.325
8/11/2011	Penthouse 4 - West - louver 1	L1112383-21	P4-W-L1	2.24			9.13	11.37
8/11/2011	Penthouse 4 - East - louver 1	L1112383-22	P4-E-L1	0.493			0.518	1.011
8/11/2011	Penthouse 7 - South - Door 1	L1112383-23	P7-S-D1	13.2				13.2
8/11/2011	Penthouse 7 - East - louver 1	L1112383-24	P7-E-L1	7.14				7.14
8/11/2011	Penthouse 7 - East - louver 2	L1112383-25	P7-E-L2	1.68				1.68
8/20/2011	14 Line, Column H, Window 1	L1113015-01	14L-H-W1	686				**686**
8/20/2011	14 Line, Column H, Door 1	L1113015-02	14L-H-D1	1.17	2.18			3.35
8/20/2011	14 Line, Column H, Door 2	L1113015-03	14L-H-D2					ND
8/20/2011	12 Line, Column B, Door 1	L1113015-04	12L-B-D1					ND
8/20/2011	12 Line, Column B, Door 2	L1113015-05	12L-B-D2	3.67				3.67
8/20/2011	12 Line, Column BE, Door 1	L1113015-06	12L-BE-D1	4340				**4340**
8/20/2011	12 Line, Column BE, Door 3	Same as 12L-BE-D1		4340				**4340**
1/24/2012	Exterior, 12 Line, Column BE, Door 3, 0-3" Brick	L1201253-11	12L-BE-D3/0-3					ND
1/24/2012	Exterior, 12 Line, Column BE, Door 3, 3-6" Brick	L1201253-12	12L-BE-D3/3-6					ND
1/24/2012	Exterior, 12 Line, Column BE, Door 3, 6-9" Brick	L1201253-13	12L-BE-D3/6-9					ND
8/20/2011	13 Line, Column AE, Window 1	L1113015-07	13L-AE-W1	1.88				1.88
8/20/2011	13 Line, Column AE, Window 2	L1113015-08	13L-AE-W2	1.88				1.88
8/20/2011	13 Line, Column AE, Window 3	L1113015-09	13L-AE-W3	5.36				5.36
8/20/2011	13 Line, Column AE, Window 4	L1113015-10	13L-AE-W4	7.74				7.74
8/20/2011	13 Line, Column AE, Window 5	L1113015-11	13L-AE-W5	1.87				1.87
8/20/2011	13 Line, Column AE, Window 6	L1113015-12	13L-AE-W6	37.9				37.9
8/20/2011	13 Line, Column AE, Window 7	L1113015-13	13L-AE-W7	6.17				6.17
8/20/2011	13 Line, Column AE, Window 8	L1113015-14	13L-AE-W8	3.58				3.58
8/20/2011	13 Line, Column AE, Window 9	L1113015-15	13L-AE-W9	7.55				7.55
8/20/2011	13 Line, Column AE, Window 10	L1113015-16	13L-AE-W10	16				16
8/20/2011	13 Line, Column AE, Window 11	L1113015-17	13L-AE-W11	8.49				8.49
8/20/2011	13 Line, Column AE, Window 12	L1113015-18	13L-AE-W12					ND
8/20/2011	13 Line, Column AE, Window 13	L1113015-19	13L-AE-W13	14.2				14.2
8/20/2011	13 Line, Column AE, Window 14	L1113015-20	13L-AE-W14	5.05				5.05
8/20/2011	13 Line, Column AE, Window 15	L1113019-01	13L-AE-W15	4.09				4.09
8/20/2011	13 Line, Column AE, Window 16	L1113019-02	13L-AE-W16	6.73				6.73
8/20/2011	13 Line, Column AE, Window 17	L1113019-03	13L-AE-W17	8.1				8.1

Phase II PCB Results
Analytical Data Tracking Spreadsheet
GSA - Andover, MA

Sample Date	Location	Alpha Lab ID	Sample ID	Aroclor 1254 (ppm)	Aroclor 1260 (ppm)	Aroclor 1242 (ppm)	Aroclor 1248 (ppm)	Total PCB
8/20/2011	13 Line, Column AE, Window 18	L1113019-04	13L-AE-W18	7.09				7.09
8/20/2011	13 Line, Column AE, Window 19	L1113019-05	13L-AE-W19	2.24				2.24
8/20/2011	13 Line, Column AE, Window 20	L1113019-06	13L-AE-W20	1.96				1.96
8/20/2011	13 Line, Column AE, Window 21	L1113019-07	13L-AE-W21	6.35				6.35
8/20/2011	13 Line, Column AE, Window 22	L1113019-08	13L-AE-W22	3.7				3.7
8/20/2011	13 Line, Column AE, Window 23	L1113019-09	13L-AE-W23	3.66				3.66
8/20/2011	13 Line, Column AE, Window 24	L1113019-10	13L-AE-W24	3.24				3.24
8/20/2011	13 Line, Column AE, Window 25	L1113019-11	13L-AE-W25	3.06				3.06
8/20/2011	13 Line, Column AE, Window 26	L1113019-12	13L-AE-W26	2.39				2.39
8/20/2011	13 Line, Column AE, Window 27	L1113019-13	13L-AE-W27	4.6				4.6
8/20/2011	13 Line, Column AE, Window 28	L1113019-14	13L-AE-W28	8.95				8.95
8/20/2011	13 Line, Column AE, Window 29	L1113019-15	13L-AE-W29	201				**201**
1/24/2012	Exterior, 13 Line, Column AE, Window 29, 0-3" Brick	L1201253-08	13L-AE-W29/0-3			0.422		0.422
1/24/2012	Exterior, 13 Line, Column AE, Window 29, 3-6" Brick	L1201253-09	13L-AE-W29/3-6			0.402		0.402
1/24/2012	Exterior, 13 Line, Column AE, Window 29, 6-9" Brick	L1201253-10	13L-AE-W29/6-9			0.459		0.459
8/20/2011	13 Line, Column AE, Window 30	L1113019-16	13L-AE-W30	3.78				3.78
8/20/2011	14 Line, Louver 1	L1113019-17	14L-Louver1					ND
8/20/2011	13 Line, Column AE, Door 1	L1113019-18	13L-AE-D1	16.2				16.2
8/20/2011	6 Line, Column DE, Window 1	L1113019-19	6L-DE-W1	193				**193**
1/24/2012	Exterior, 6 Line, Column DE, Window 1, 0-3" Brick	L1201253-01	6L-DE-W1/0-3			0.123		0.123
1/24/2012	Exterior, 6 Line, Column DE, Window 1, 3-6" Brick	L1201253-02	6L-DE-W1/3-6			0.237		0.237
1/24/2012	Exterior, 6 Line, Column DE, Window 1, 6-9" Brick	L1201253-03	6L-DE-W1/6-9			0.268		0.268
8/20/2011	6 Line, Column CE, Window 1	L1113019-20	6L-CE-W1	386				**386**
8/20/2011	6 Line, Column B, Window 1	L1113020-01	6L-B-W1	211000				**211000**
2/3/2012	Exterior, 6 Line, Column B, Window 1, 0-3" Brick	L1201875-01	6L-B-W1/0-3	0.16				0.16
2/3/2012	Exterior, 6 Line, Column B, Window 1, 3-6" Brick	L1201875-02	6L-B-W1/3-6					ND
2/3/2012	Exterior, 6 Line, Column B, Window 1, 6-9" Brick	L1201875-03	6L-B-W1/6-9					ND
8/20/2011	6 Line, Column B, Door 1	L1113020-02	6L-B-D1	19.5				19.5
8/20/2011	6 Line, Column BE, Door 1	L1113020-03	6L-BE-D1	87.9				**87.9**
8/20/2011	6 Line, Column B, Window 2	L1113020-04	6L-B-W2	198000				**198000**
8/20/2011	12 Line, Column AE, Door 2	L1113020-05	10L-AE-D2	14.6				14.6
8/20/2011	12 Line, Column AE, Door 3	L1113020-06	12L-AE-D3	4.76				4.76
8/20/2011	12 Line, Column B, Door 2 DUPLICATE	L1113020-07	DUP1	3.46				3.46
8/20/2011	12 Line, Column BE, Door 3 DUPLICATE	L1113020-08	DUP2	1770				**1770**
8/20/2011	14 Line, Louver 1 DUPLICATE	L1113020-09	DUP3					ND
8/20/2011	10 Line, Column AE, Door 2, DUPLICATE	L1113020-10	DUP4	2.55				2.55
8/20/2011	13 Line, Column AE, Window 3, DUPLICATE	L1113020-11	DUP5	11.6				11.6
8/20/2011	13 Line, Column AE, Window 4, DUPLICATE	L1113020-12	DUP6	6.47				6.47
8/20/2011	12 Line, Column AE, Window 5, DUPLICATE	L1113020-13	DUP7	13.3				13.3
8/20/2011	Interior, Door 11, Men's Room - 0735	L1113022-01	IN-D11-MR	42.9				42.9
8/20/2011	Interior, Door 12, Electrical Room 0733; #7B	L1113022-02	IN-D12-ER	28				28
8/20/2011	Interior, Door 13, West Emergency Exit	L1113022-03	IN-D13-WE	10.6				10.6
8/20/2011	Interior, Door 14, Deligation Building	L1113022-04	IN-D14-DB	8.82				8.82
8/20/2011	Interior, Door 15, Utility Room	L1113022-05	IN-D15-UR	45.9				45.9
8/20/2011	Interior, Door 16, Computer Room	L1113022-06	IN-D16-CC	5.17				5.17
8/20/2011	Interior, Door 17, Computer Room 5	L1113022-07	IN-D17-CR5	3.04				3.04
8/20/2011	Interior, Door 18, Loading Dock	L1113022-08	IN-D18-LD	0.733				0.733
8/20/2011	Interior, Window 1, MDF Room 5	L1113022-09	IN-W1-MDF-5	6.04				6.04
8/20/2011	Interior, Window 2, MDF Room 5	L1113022-10	IN-W2-MDF-5	6.18				6.18
8/20/2011	Interior, Door 1, Loading Dock	L1113022-11	IN-D1-LD	5.35			9.85	15.2
8/20/2011	Interior, Door 2, Loading Dock	L1113022-12	IN-D2-LD	5.34			6.03	11.37
8/20/2011	Interior, Door 3, Loading Dock	L1113022-13	IN-D3-LD	4.78				4.78

Phase II PCB Results
Analytical Data Tracking Spreadsheet
GSA - Andover, MA

Sample Date	Location	Alpha Lab ID	Sample ID	Aroclor 1254 (ppm)	Aroclor 1260 (ppm)	Aroclor 1242 (ppm)	Aroclor 1248 (ppm)	Total PCB
8/20/2011	Interior, Door 4, Facility Corridor	L1113022-14	IN-D4-FC	28				28
8/20/2011	Interior, Door 5, Main Entrance - Guard Station	L1113022-15	IN-D5-ME	1.44				1.44
8/20/2011	Interior, Door 6, Men's Room Door Frame	L1113022-16	IN-D6-MR	6.38			5.9	12.28
8/20/2011	Interior, Door 7, Woman's Room Door Frame	L1113022-17	IN-D7-WR	5.86			6.48	12.34
8/20/2011	Interior, Door 8, Main Corridor - Double Electric Doors	L1113022-18	IN-D8-MC	9.47				9.47
8/20/2011	Interior, Door 9, Phase Line Door	L1113022-19	IN-D9-PHL	44.9				44.9
8/20/2011	Interior, Door 10, West Entrance Revolving Door	L1113022-20	IN-D10-WES					ND
11/2/2011	14 Line Column H, Expansion Joint	L1118200-01	14 Line Column H	2010				**2010**
11/2/2011	14 Line Column F, Expansion Joint	L1118200-02	14 Line Column F	52600				**52600**
11/2/2011	14 Line Column E, Expansion Joint	L1118200-03	14 Line Column E	37400				**37400**
1/24/2012	Exterior, 14 Line Column E, 0-3" Brick	L1201253-17	14L-E-EJ/0-3	1.11				1.11
1/24/2012	Exterior, 14 Line Column E, 0-3 DUPLICATE	L1201253-18	14L-E-EJ/0-3/DUP	1.25				1.25
1/24/2012	Exterior, 14 Line Column E, 3-6" Brick	L1201253-19	14L-E-EJ/3-6	0.46				0.46
1/24/2012	Exterior, 14 Line Column E, 6-9" Brick	L1201253-20	14L-E-EJ/6-9	0.0762				0.0762
11/2/2011	14 Line Column D, Expansion Joint	L1118200-04	14 Line Column D	92700				**92700**
2/3/2012	Exterior, 14 Line Column D, 0-3" Brick	L1201875-06	14L-D-EJ/0-3	7.16				7.16
2/3/2012	Exterior, 14 Line Column D, 3-6" Brick	L1201875-05	14L-D-EJ/3-6	0.1				0.1
2/3/2012	Exterior, 14 Line Column D, 6-9" Brick	L1201875-04	14L-D-EJ/6-9	0.07				0.07
11/2/2011	14 Line Column C, Expansion Joint	L1118200-05	14 Line Column C	8400				**8400**
11/2/2011	14 Line Column B, Expansion Joint	L1118200-06	14 Line Column B	19700				**19700**
11/2/2011	13.3 Line B Column, Expansion Joint	L1118200-07	B Line Column 13.3	3010				**3010**
11/2/2011	13 Line, Column B, Expansion Joint	L1118200-08	B Line Column 13	14200				**14200**
1/24/2012	Exterior, B Line Column 13, 0-3' Brick	L1201253-14	6L-B-EJ/0-3	0.568				0.568
1/24/2012	Exterior, B Line Column 13, 3-6" Brick	L1201253-15	6L-B-EJ/3-6					ND
1/24/2012	Exterior, B Line Column 13, 6-9" Brick	L1201253-16	6L-B-EJ/6-9	0.0629				0.0629
11/2/2011	11 Line, AE Column, Expansion Joint	L1118200-09	AE Line Column 11	24600				**24600**
11/2/2011	10 Line, AE Column, Expansion Joint	L1118200-10	AE Line Column 10	22100				**22100**
1/24/2012	Exterior, AE Line Column 10, 0-3" Brick	L1201253-04	AE-D-EJ/0-3	0.564				0.564
1/24/2012	Exterior, AE Line Column 10, 0-3 DUP	L1201253-05	AE-D-EJ/0-3/DUP	0.618				0.618
1/24/2012	Exterior, AE Line Column 10, 3-6" Brick	L1201253-06	AE-D-EJ/3-6	0.13		0.0921		0.2221
1/24/2012	Exterior, AE Line Column 10, 6-9" Brick	L1201253-07	AE-D-EJ/6-9	0.138		0.104		0.242
11/2/2011	9 Line, Column AE, Expansion Joint	L1118200-11	AE Line Column 9	30600				**30600**
11/2/2011	8 Line, Column AE, Expansion Joint	L1118200-12	AE Line Column 8	44400				**44400**
11/2/2011	7 Line, Column AE, Expansion Joint	L1118200-13	AE Line Column 7	78000				**78000**

NOTE:
Detected values above the TSCA 50 ppm threshold are highlighted with **BOLD** text

ANALYTICAL REPORT

Lab Number:	L1111112
Client:	URS Corporation 5 Industrial Way Salem, NH 03079
ATTN:	Marilyn Wade
Phone:	(603) 893-0616
Project Name:	GSA IRS MODERNIZATION
Project Number:	41062464
Report Date:	07/29/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: GSA IRS MODERNIZATION
Project Number: 41062464

Lab Number: L1111112
Report Date: 07/29/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1111112-01	W-1; SEC. B EA. WALL	ANDOVER, MA	07/22/11 00:00
L1111112-02	W-2; SEC. B NO. W WALL	ANDOVER, MA	07/22/11 00:00
L1111112-03	W-3; SEC A NO. W WALL	ANDOVER, MA	07/22/11 00:00
L1111112-04	W-4; SEC A WEST WALL	ANDOVER, MA	07/22/11 00:00
L1111112-05	W-5; COURTYARD NO. WALL	ANDOVER, MA	07/22/11 00:00

Project Name: GSA IRS MODERNIZATION **Lab Number:** L1111112
Project Number: 41062464 **Report Date:** 07/29/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

PCBs

The WG481017-2/-3 LCS/LCSD RPD, associated with L1111112-01 through -05, is above the acceptance criteria for Aroclor 1016 (67%); however, the individual LCS/LCSD recoveries are within method limits.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative Date: 07/29/11

ORGANICS

PCBS

Project Name: GSA IRS MODERNIZATION **Lab Number:** L1111112

Project Number: 41062464 **Report Date:** 07/29/11

SAMPLE RESULTS

Lab ID:	L1111112-01	Date Collected:	07/22/11 00:00
Client ID:	W-1; SEC. B EA. WALL	Date Received:	07/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Wipe	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	07/25/11 21:15
Analytical Date:	07/28/11 06:44	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	07/27/11
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	07/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug Abs	0.500	--	1
Aroclor 1221	ND		ug Abs	0.500	--	1
Aroclor 1232	ND		ug Abs	0.500	--	1
Aroclor 1242	ND		ug Abs	0.500	--	1
Aroclor 1248	ND		ug Abs	0.500	--	1
Aroclor 1262	ND		ug Abs	0.500	--	1
Aroclor 1268	ND		ug Abs	0.500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	55		30-150
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	73		30-150

Project Name: GSA IRS MODERNIZATION **Lab Number:** L1111112

Project Number: 41062464 **Report Date:** 07/29/11

SAMPLE RESULTS

Lab ID:	L1111112-01	Date Collected:	07/22/11 00:00
Client ID:	W-1; SEC. B EA. WALL	Date Received:	07/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Wipe	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	07/25/11 21:15
Analytical Date:	07/28/11 06:44	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	07/27/11
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	07/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	1.99		ug Abs	0.500	--	1
Aroclor 1260	0.685		ug Abs	0.500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	55		30-150
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	73		30-150

Project Name: GSA IRS MODERNIZATION **Lab Number:** L1111112

Project Number: 41062464 **Report Date:** 07/29/11

SAMPLE RESULTS

Lab ID:	L1111112-02	Date Collected:	07/22/11 00:00
Client ID:	W-2; SEC. B NO. W WALL	Date Received:	07/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Wipe	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	07/25/11 21:15
Analytical Date:	07/28/11 06:57	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	07/27/11
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	07/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug Abs	0.500	--	1
Aroclor 1221	ND		ug Abs	0.500	--	1
Aroclor 1232	ND		ug Abs	0.500	--	1
Aroclor 1242	ND		ug Abs	0.500	--	1
Aroclor 1248	ND		ug Abs	0.500	--	1
Aroclor 1254	ND		ug Abs	0.500	--	1
Aroclor 1260	ND		ug Abs	0.500	--	1
Aroclor 1262	ND		ug Abs	0.500	--	1
Aroclor 1268	ND		ug Abs	0.500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	47		30-150
2,4,5,6-Tetrachloro-m-xylene	72		30-150
Decachlorobiphenyl	69		30-150

Project Name: GSA IRS MODERNIZATION **Lab Number:** L1111112

Project Number: 41062464 **Report Date:** 07/29/11

SAMPLE RESULTS

Lab ID:	L1111112-03	Date Collected:	07/22/11 00:00
Client ID:	W-3; SEC A NO. W WALL	Date Received:	07/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Wipe	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	07/25/11 21:15
Analytical Date:	07/28/11 07:10	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	07/27/11
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	07/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug Abs	0.500	--	1
Aroclor 1221	ND		ug Abs	0.500	--	1
Aroclor 1232	ND		ug Abs	0.500	--	1
Aroclor 1242	ND		ug Abs	0.500	--	1
Aroclor 1248	ND		ug Abs	0.500	--	1
Aroclor 1254	ND		ug Abs	0.500	--	1
Aroclor 1260	ND		ug Abs	0.500	--	1
Aroclor 1262	ND		ug Abs	0.500	--	1
Aroclor 1268	ND		ug Abs	0.500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	61		30-150
Decachlorobiphenyl	56		30-150
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	72		30-150

Project Name: GSA IRS MODERNIZATION **Lab Number:** L1111112

Project Number: 41062464 **Report Date:** 07/29/11

SAMPLE RESULTS

Lab ID:	L1111112-04	Date Collected:	07/22/11 00:00
Client ID:	W-4; SEC A WEST WALL	Date Received:	07/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Wipe	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	07/25/11 21:15
Analytical Date:	07/28/11 07:23	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	07/27/11
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	07/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug Abs	0.500	--	1
Aroclor 1221	ND		ug Abs	0.500	--	1
Aroclor 1232	ND		ug Abs	0.500	--	1
Aroclor 1242	ND		ug Abs	0.500	--	1
Aroclor 1248	ND		ug Abs	0.500	--	1
Aroclor 1254	ND		ug Abs	0.500	--	1
Aroclor 1260	ND		ug Abs	0.500	--	1
Aroclor 1262	ND		ug Abs	0.500	--	1
Aroclor 1268	ND		ug Abs	0.500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	54		30-150
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	76		30-150

Project Name: GSA IRS MODERNIZATION **Lab Number:** L1111112

Project Number: 41062464 **Report Date:** 07/29/11

SAMPLE RESULTS

Lab ID:	L1111112-05	Date Collected:	07/22/11 00:00
Client ID:	W-5; COURTYARD NO. WALL	Date Received:	07/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Wipe	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	07/25/11 21:15
Analytical Date:	07/28/11 07:37	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	07/27/11
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	07/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug Abs	0.500	--	1
Aroclor 1221	ND		ug Abs	0.500	--	1
Aroclor 1232	ND		ug Abs	0.500	--	1
Aroclor 1242	ND		ug Abs	0.500	--	1
Aroclor 1248	ND		ug Abs	0.500	--	1
Aroclor 1254	ND		ug Abs	0.500	--	1
Aroclor 1260	ND		ug Abs	0.500	--	1
Aroclor 1262	ND		ug Abs	0.500	--	1
Aroclor 1268	ND		ug Abs	0.500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	61		30-150
2,4,5,6-Tetrachloro-m-xylene	79		30-150
Decachlorobiphenyl	77		30-150

Project Name: GSA IRS MODERNIZATION

Project Number: 41062464

Lab Number: L1111112

Report Date: 07/29/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 07/28/11 06:04
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 07/25/11 21:15
Cleanup Method1: EPA 3665A
Cleanup Date1: 07/27/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 07/27/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01-05 Batch: WG481017-1					
Aroclor 1016	ND		ug Abs	0.500	--
Aroclor 1221	ND		ug Abs	0.500	--
Aroclor 1232	ND		ug Abs	0.500	--
Aroclor 1242	ND		ug Abs	0.500	--
Aroclor 1248	ND		ug Abs	0.500	--
Aroclor 1254	ND		ug Abs	0.500	--
Aroclor 1260	ND		ug Abs	0.500	--
Aroclor 1262	ND		ug Abs	0.500	--
Aroclor 1268	ND		ug Abs	0.500	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	69		30-150
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	86		30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: GSA IRS MODERNIZATION

Project Number: 41062464

Lab Number: L1111112

Report Date: 07/29/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG481017-2 WG481017-3								
Aroclor 1016	124		62		40-140	**67**	Q	50
Aroclor 1260	68		66		40-140	3		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	64		60		30-150
Decachlorobiphenyl	56		55		30-150
2,4,5,6-Tetrachloro-m-xylene	77		71		30-150
Decachlorobiphenyl	77		75		30-150

Project Name: GSA IRS MODERNIZATION
Project Number: 41062464

Lab Number: L1111112
Report Date: 07/29/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1111112-01A	Amber 100ml Hexane preserved	A	N/A	3	Y	Absent	PCB-8082-3540C(14)
L1111112-02A	Amber 100ml Hexane preserved	A	N/A	3	Y	Absent	PCB-8082-3540C(14)
L1111112-03A	Amber 100ml Hexane preserved	A	N/A	3	Y	Absent	PCB-8082-3540C(14)
L1111112-04A	Amber 100ml Hexane preserved	A	N/A	3	Y	Absent	PCB-8082-3540C(14)
L1111112-05A	Amber 100ml Hexane preserved	A	N/A	3	Y	Absent	PCB-8082-3540C(14)

*Values in parentheses indicate holding time in days

Project Name: GSA IRS MODERNIZATION **Lab Number:** L1111112

Project Number: 41062464 **Report Date:** 07/29/11

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report

Project Name: GSA IRS MODERNIZATION **Lab Number:** L1111112

Project Number: 41062464 **Report Date:** 07/29/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: GSA IRS MODERNIZATION **Lab Number:** L1111112
Project Number: 41062464 **Report Date:** 07/29/11

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B**,** 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/22/11

ALPHA Job #: L1111112

Client Information

Client: ~~GSA IRS~~ URS CORPORATION

Address: 5 INDUSTRIAL WAY ~~ANDOVER, MA~~ SALEM NH 03079

Phone: 603 893 0616

Fax: 603 893 ~~0616~~ 6240

Email: marilyn_wade@urscorp.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: GSA IRS MODERNIZATION

Project Location: ANDOVER, MA

Project #: 41062464

Project Manager: T. LAZOTT

ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!) 5 DAY TAT

Date Due: 7/29/11 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program TSCA Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All ***CAM*** methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: PCB WIPES

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	TOTAL # BOTTLES
1111 2 1	W-1; SEC B EL. WALL	7/22/11		wipe			
2	W-2; SEC. B No. W WALL	↓		↓			
3	W-3; SEC A No. W WALL						
4	W-4; SEC A WEST WALL						
5	W-5; Courtyard No. WALL						

Container Type	G
Preservative	4°C

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	7/22/11 1335	[illegible]	7/22/11 1335
[illegible]	7/22/11 1630	[illegible]	7/22/11 1630

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:07291110:36

ANALYTICAL REPORT

Lab Number:	L1112383
Client:	URS Corporation 5 Industrial Way Salem, NH 03079
ATTN:	Thomas Lazott
Phone:	(603) 893-0616
Project Name:	IRS-GSA
Project Number:	41062464.01
Report Date:	08/23/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: IRS-GSA
Project Number: 41062464.01

Lab Number: L1112383
Report Date: 08/23/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1112383-01	ST1-W-D1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-02	P13-S-D1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-03	P13-E-L1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-04	213-E-L1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-05	P10-S-D1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-06	P10-E-L1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-07	P10-E-L2	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-08	P10-N-L1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-09	P10-S-L1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-10	P08-S-D1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-11	P08-E-L1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-12	P08-E-L2	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-13	P5-E-D1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-14	P5-E-L1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-15	P5-E-L2	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-16	P5-N-L1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-17	P3-W-D1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-18	P3-W-L1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-19	P3-E-L1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-20	P4-W-D1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-21	P4-W-L1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-22	P4-E-L1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-23	P7-S-D1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-24	P7-E-L1	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00
L1112383-25	P7-E-L2	210 LOWELL ST. ANDOVER, MA	08/11/11 00:00

Project Name: IRS-GSA **Lab Number:** L1112383
Project Number: 41062464.01 **Report Date:** 08/23/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Sample Receipt

All analyses performed were verified with the client.

PCB

L1112383-01, -02, -03, -05 and -07 through -20 have elevated detection limits due to limited sample volume available for analysis.

L1112383-01, -03, -10, -13, -18, -23 and -25 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

L1112383-02, -05, -09 and -17 have elevated detection limits due to the dilutions required by matrix interferences encountered during the concentration of the samples.

L1112383-04 and -11 have elevated detection limits due to the dilutions required by the matrix interferences encountered during the concentration of the samples and the analytical dilutions required by the target

Case Narrative (continued)

compounds present in the samples.
L1112383-06 and-14 have elevated detection limits due to the dilution required by the sample matrix.
L1112383-07, -12 and -24 have elevated detection limits due to the dilutions required by the matrix interferences encountered during the concentration of the samples and the analytical dilutions required by the sample matrix.
L1112383-21 has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix, and due to the dilution required by the elevated concentrations of target compounds in the sample.
The surrogate recoveries for L1112383-01, -04, -06, -07, -11, -12, -13, -18, -21, -23, -24 and -25 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all at 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analysis are reported.
L1112383-11: The internal standard (IS) response for 1-Bromo-2-nitrobenzene was above the acceptance criteria on B channel; however, the sample was not re-analyzed due to obvious interferences. A copy of the chromatogram is included as an attachment to this report. Since the IS response was above method criteria, all associated compounds are considered to have a potentially low bias. Due to the high IS response on the B channel, the dual column RPD for L1112383-11 is above the acceptance criteria for Aroclor 1254. The higher of the two results is reported and qualified with a "P".
The surrogate recoveries for L1112383-14 were below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene (27%) and Decachlorobiphenyl (23%/28%); however, re-extraction could not be performed due to lack of additional sample. The results of the original analysis are reported.
The surrogate recoveries for L1112383-15 were below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene (28%) and Decachlorobiphenyl (9%/10%); however, re-extraction could not be performed due to lack of additional sample. The results of the original analysis are reported.
The surrogate recoveries for L1112383-16 were below the acceptance criteria for Decachlorobiphenyl (7%/8%); however, re-extraction could not be performed due to lack of additional sample. The results of the original analysis are reported.
The surrogate recoveries for L1112383-19 were below the acceptance criteria for 2,4,5,6-Tetrachloro-m-

Project Name: IRS-GSA **Lab Number:** L1112383
Project Number: 41062464.01 **Report Date:** 08/23/11

Case Narrative (continued)

xylene (4%/4%) and Decachlorobiphenyl (2%/2%); however, re-extraction could not be performed due to lack of additional sample. The results of the original analysis are reported.
The surrogate recoveries for L1112383-22 were outside the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene (11%/11%) and Decachlorobiphenyl (14%/14%); however, re-extraction could not be performed due to lack of additional sample. The results of the original analysis are reported.
L1112383-23: The internal standard (IS) response for 1-Bromo-2-nitrobenzene was above the acceptance criteria on the confirmation column; however, the sample was not re-analyzed due to obvious interferences. A copy of the chromatogram is included as an attachment to this report. Since the IS response was above method criteria, all associated compounds are considered to have a potentially low bias on this column. The dual column RPD for L1112383-23 is above the acceptance criteria for Aroclor 1254. The results from the primary column are reported and qualified with a "P".
The dual column RPD for L1112383-24 is above the acceptance criteria for Aroclor 1254; however, no obvious column interferences are present. The higher of the two results is reported and qualified with a "P".
L1112383-25: The internal standard (IS) response for 1-Bromo-2-nitrobenzene was above the acceptance criteria on the confirmation column; however, the sample was not re-analyzed due to obvious interferences. A copy of the chromatogram is included as an attachment to this report. Since the IS response was above method criteria, all associated compounds are considered to have a potentially low bias on this column. The dual column RPD for L1112383-25 is above the acceptance criteria for Aroclor 1254. The results from the primary column are reported and qualified with a "P".
The WG484729-2 LCS recovery, associated with L1112383-01 through -20, was below the acceptance criteria for Aroclor 1016 (29%); however, re-extraction could not be performed due to lack of additional sample. The results of the original analyses are reported. In addition, the associated WG484729-2/-3 LCS/LCSD RPD is above the acceptance criteria for Aroclor 1016 (95%).
The surrogate recoveries for the WG484729-2 LCS, associated with L1112383-01 through -20, are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene (6%/6%).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 08/23/11

ORGANICS

PCBS

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-01 D	Date Collected:	08/11/11 00:00
Client ID:	ST1-W-D1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/23/11 10:55	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	3390000	--	20000
Aroclor 1221	ND		ug/kg	3390000	--	20000
Aroclor 1232	ND		ug/kg	3390000	--	20000
Aroclor 1242	ND		ug/kg	3390000	--	20000
Aroclor 1248	ND		ug/kg	2260000	--	20000
Aroclor 1260	ND		ug/kg	2260000	--	20000
Aroclor 1262	ND		ug/kg	1130000	--	20000
Aroclor 1268	ND		ug/kg	1130000	--	20000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-01 D	Date Collected:	08/11/11 00:00
Client ID:	ST1-W-D1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/23/11 10:55	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	22800000		ug/kg	3390000	--	20000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-02	Date Collected:	08/11/11 00:00
Client ID:	P13-S-D1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/19/11 11:48	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1240	--	5
Aroclor 1221	ND		ug/kg	1240	--	5
Aroclor 1232	ND		ug/kg	1240	--	5
Aroclor 1242	ND		ug/kg	1240	--	5
Aroclor 1248	ND		ug/kg	826	--	5
Aroclor 1262	ND		ug/kg	413	--	5
Aroclor 1268	ND		ug/kg	413	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	53		30-150
2,4,5,6-Tetrachloro-m-xylene	65		30-150
Decachlorobiphenyl	64		30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-02	Date Collected:	08/11/11 00:00
Client ID:	P13-S-D1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/19/11 11:48	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	3250		ug/kg	1240	--	5
Aroclor 1260	1410		ug/kg	826	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	53		30-150
2,4,5,6-Tetrachloro-m-xylene	65		30-150
Decachlorobiphenyl	64		30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-03 D	Date Collected:	08/11/11 00:00
Client ID:	P13-E-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 14:18	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1500	--	5
Aroclor 1221	ND		ug/kg	1500	--	5
Aroclor 1232	ND		ug/kg	1500	--	5
Aroclor 1242	ND		ug/kg	1500	--	5
Aroclor 1248	ND		ug/kg	1000	--	5
Aroclor 1260	ND		ug/kg	1000	--	5
Aroclor 1262	ND		ug/kg	500	--	5
Aroclor 1268	ND		ug/kg	500	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	60		30-150
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	74		30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-03 D	Date Collected:	08/11/11 00:00
Client ID:	P13-E-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 14:18	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	21100		ug/kg	1500	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	60		30-150
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	74		30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-04 D	Date Collected:	08/11/11 00:00
Client ID:	213-E-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 14:31	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	701	--	10
Aroclor 1221	ND		ug/kg	701	--	10
Aroclor 1232	ND		ug/kg	701	--	10
Aroclor 1242	ND		ug/kg	701	--	10
Aroclor 1248	ND		ug/kg	467	--	10
Aroclor 1260	ND		ug/kg	467	--	10
Aroclor 1262	ND		ug/kg	234	--	10
Aroclor 1268	ND		ug/kg	234	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-04 D	Date Collected:	08/11/11 00:00
Client ID:	213-E-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 14:31	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	7530		ug/kg	701	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-05	Date Collected:	08/11/11 00:00
Client ID:	P10-S-D1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/19/11 14:31	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	3000	--	5
Aroclor 1221	ND		ug/kg	3000	--	5
Aroclor 1232	ND		ug/kg	3000	--	5
Aroclor 1242	ND		ug/kg	3000	--	5
Aroclor 1248	ND		ug/kg	2000	--	5
Aroclor 1254	ND		ug/kg	3000	--	5
Aroclor 1260	ND		ug/kg	2000	--	5
Aroclor 1262	ND		ug/kg	1000	--	5
Aroclor 1268	ND		ug/kg	1000	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	60		30-150
Decachlorobiphenyl	53		30-150
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	69		30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-06 D	Date Collected:	08/11/11 00:00
Client ID:	P10-E-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 12:55	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1280	--	20
Aroclor 1221	ND		ug/kg	1280	--	20
Aroclor 1232	ND		ug/kg	1280	--	20
Aroclor 1242	ND		ug/kg	1280	--	20
Aroclor 1248	ND		ug/kg	853	--	20
Aroclor 1254	ND		ug/kg	1280	--	20
Aroclor 1260	ND		ug/kg	853	--	20
Aroclor 1262	ND		ug/kg	426	--	20
Aroclor 1268	ND		ug/kg	426	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-07 D	Date Collected:	08/11/11 00:00
Client ID:	P10-E-L2	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 13:12	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	7590	--	60
Aroclor 1221	ND		ug/kg	7590	--	60
Aroclor 1232	ND		ug/kg	7590	--	60
Aroclor 1242	ND		ug/kg	7590	--	60
Aroclor 1248	ND		ug/kg	5060	--	60
Aroclor 1254	ND		ug/kg	7590	--	60
Aroclor 1260	ND		ug/kg	5060	--	60
Aroclor 1262	ND		ug/kg	2530	--	60
Aroclor 1268	ND		ug/kg	2530	--	60

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-08	Date Collected:	08/11/11 00:00
Client ID:	P10-N-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/19/11 14:58	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	3330	--	1
Aroclor 1221	ND		ug/kg	3330	--	1
Aroclor 1232	ND		ug/kg	3330	--	1
Aroclor 1242	ND		ug/kg	3330	--	1
Aroclor 1248	ND		ug/kg	2220	--	1
Aroclor 1254	ND		ug/kg	3330	--	1
Aroclor 1260	ND		ug/kg	2220	--	1
Aroclor 1262	ND		ug/kg	1110	--	1
Aroclor 1268	ND		ug/kg	1110	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	64		30-150
Decachlorobiphenyl	63		30-150
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	75		30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-09	Date Collected:	08/11/11 00:00
Client ID:	P10-S-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/19/11 15:11	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	520	--	6
Aroclor 1221	ND		ug/kg	520	--	6
Aroclor 1232	ND		ug/kg	520	--	6
Aroclor 1242	ND		ug/kg	520	--	6
Aroclor 1248	ND		ug/kg	347	--	6
Aroclor 1254	ND		ug/kg	520	--	6
Aroclor 1260	ND		ug/kg	347	--	6
Aroclor 1262	ND		ug/kg	173	--	6
Aroclor 1268	ND		ug/kg	173	--	6

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	59		30-150
Decachlorobiphenyl	83		30-150
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	96		30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-10 D	Date Collected:	08/11/11 00:00
Client ID:	P08-S-D1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 14:45	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	932	--	5
Aroclor 1221	ND		ug/kg	932	--	5
Aroclor 1232	ND		ug/kg	932	--	5
Aroclor 1242	ND		ug/kg	932	--	5
Aroclor 1248	ND		ug/kg	621	--	5
Aroclor 1260	ND		ug/kg	621	--	5
Aroclor 1262	ND		ug/kg	310	--	5
Aroclor 1268	ND		ug/kg	310	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	62		30-150
Decachlorobiphenyl	136		30-150
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	58		30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-10 D	Date Collected:	08/11/11 00:00
Client ID:	P08-S-D1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 14:45	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	11900		ug/kg	932	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	62		30-150
Decachlorobiphenyl	136		30-150
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	58		30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-11 D	Date Collected:	08/11/11 00:00
Client ID:	P08-E-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/23/11 11:09	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	8640	--	100
Aroclor 1221	ND		ug/kg	8640	--	100
Aroclor 1232	ND		ug/kg	8640	--	100
Aroclor 1242	ND		ug/kg	8640	--	100
Aroclor 1248	ND		ug/kg	5760	--	100
Aroclor 1254	38000	P	ug/kg	8640	--	100
Aroclor 1260	ND		ug/kg	5760	--	100
Aroclor 1262	ND		ug/kg	2880	--	100
Aroclor 1268	ND		ug/kg	2880	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-12 D	Date Collected:	08/11/11 00:00
Client ID:	P08-E-L2	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 13:25	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	4180	--	40
Aroclor 1221	ND		ug/kg	4180	--	40
Aroclor 1232	ND		ug/kg	4180	--	40
Aroclor 1242	ND		ug/kg	4180	--	40
Aroclor 1248	ND		ug/kg	2790	--	40
Aroclor 1254	ND		ug/kg	4180	--	40
Aroclor 1260	ND		ug/kg	2790	--	40
Aroclor 1262	ND		ug/kg	1390	--	40
Aroclor 1268	ND		ug/kg	1390	--	40

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-13 D	Date Collected:	08/11/11 00:00
Client ID:	P5-E-D1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 14:58	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	14200	--	100
Aroclor 1221	ND		ug/kg	14200	--	100
Aroclor 1232	ND		ug/kg	14200	--	100
Aroclor 1242	ND		ug/kg	14200	--	100
Aroclor 1248	ND		ug/kg	9480	--	100
Aroclor 1254	ND		ug/kg	14200	--	100
Aroclor 1262	ND		ug/kg	4740	--	100
Aroclor 1268	ND		ug/kg	4740	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-13 D	Date Collected:	08/11/11 00:00
Client ID:	P5-E-D1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 14:58	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1260	260000		ug/kg	9480	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-14 D	Date Collected:	08/11/11 00:00
Client ID:	P5-E-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 13:38	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	829	--	5
Aroclor 1221	ND		ug/kg	829	--	5
Aroclor 1232	ND		ug/kg	829	--	5
Aroclor 1242	ND		ug/kg	829	--	5
Aroclor 1248	3540		ug/kg	552	--	5
Aroclor 1254	ND		ug/kg	829	--	5
Aroclor 1260	ND		ug/kg	552	--	5
Aroclor 1262	ND		ug/kg	276	--	5
Aroclor 1268	ND		ug/kg	276	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	30		30-150
Decachlorobiphenyl	**23**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**27**	Q	30-150
Decachlorobiphenyl	**28**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-15	Date Collected:	08/11/11 00:00
Client ID:	P5-E-L2	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 15:11	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	545	--	1
Aroclor 1221	ND		ug/kg	545	--	1
Aroclor 1232	ND		ug/kg	545	--	1
Aroclor 1242	ND		ug/kg	545	--	1
Aroclor 1248	ND		ug/kg	364	--	1
Aroclor 1254	ND		ug/kg	545	--	1
Aroclor 1260	ND		ug/kg	364	--	1
Aroclor 1262	ND		ug/kg	182	--	1
Aroclor 1268	ND		ug/kg	182	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	31		30-150
Decachlorobiphenyl	**9**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**28**	Q	30-150
Decachlorobiphenyl	**10**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-16	Date Collected:	08/11/11 00:00
Client ID:	P5-N-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 15:24	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1880	--	1
Aroclor 1221	ND		ug/kg	1880	--	1
Aroclor 1232	ND		ug/kg	1880	--	1
Aroclor 1242	ND		ug/kg	1880	--	1
Aroclor 1248	ND		ug/kg	1250	--	1
Aroclor 1254	ND		ug/kg	1880	--	1
Aroclor 1260	ND		ug/kg	1250	--	1
Aroclor 1262	ND		ug/kg	625	--	1
Aroclor 1268	ND		ug/kg	625	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	43		30-150
Decachlorobiphenyl	**7**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	45		30-150
Decachlorobiphenyl	**8**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-17	Date Collected:	08/11/11 00:00
Client ID:	P3-W-D1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 15:38	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1390	--	5
Aroclor 1221	ND		ug/kg	1390	--	5
Aroclor 1232	ND		ug/kg	1390	--	5
Aroclor 1242	ND		ug/kg	1390	--	5
Aroclor 1248	ND		ug/kg	926	--	5
Aroclor 1254	4600		ug/kg	1390	--	5
Aroclor 1260	ND		ug/kg	926	--	5
Aroclor 1262	ND		ug/kg	463	--	5
Aroclor 1268	ND		ug/kg	463	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	55		30-150
2,4,5,6-Tetrachloro-m-xylene	73		30-150
Decachlorobiphenyl	67		30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-18 D	Date Collected:	08/11/11 00:00
Client ID:	P3-W-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 13:51	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	3530	--	20
Aroclor 1221	ND		ug/kg	3530	--	20
Aroclor 1232	ND		ug/kg	3530	--	20
Aroclor 1242	ND		ug/kg	3530	--	20
Aroclor 1248	ND		ug/kg	2350	--	20
Aroclor 1260	ND		ug/kg	2350	--	20
Aroclor 1262	ND		ug/kg	1180	--	20
Aroclor 1268	ND		ug/kg	1180	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-18 D	Date Collected:	08/11/11 00:00
Client ID:	P3-W-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 13:51	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	4150		ug/kg	3530	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-19	Date Collected:	08/11/11 00:00
Client ID:	P3-E-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 15:51	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	90.6	--	1
Aroclor 1221	ND		ug/kg	90.6	--	1
Aroclor 1232	ND		ug/kg	90.6	--	1
Aroclor 1242	ND		ug/kg	90.6	--	1
Aroclor 1254	ND		ug/kg	90.6	--	1
Aroclor 1260	ND		ug/kg	60.4	--	1
Aroclor 1262	ND		ug/kg	30.2	--	1
Aroclor 1268	ND		ug/kg	30.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**4**	Q	30-150
Decachlorobiphenyl	**2**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**4**	Q	30-150
Decachlorobiphenyl	**2**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-19	Date Collected:	08/11/11 00:00
Client ID:	P3-E-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 15:51	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1248	251		ug/kg	60.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**4**	Q	30-150
Decachlorobiphenyl	**2**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**4**	Q	30-150
Decachlorobiphenyl	**2**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-20	Date Collected:	08/11/11 00:00
Client ID:	P4-W-D1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 16:04	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	297	--	1
Aroclor 1221	ND		ug/kg	297	--	1
Aroclor 1232	ND		ug/kg	297	--	1
Aroclor 1242	ND		ug/kg	297	--	1
Aroclor 1248	ND		ug/kg	198	--	1
Aroclor 1254	1590		ug/kg	297	--	1
Aroclor 1262	ND		ug/kg	99.0	--	1
Aroclor 1268	ND		ug/kg	99.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	77		30-150
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	61		30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-20	Date Collected:	08/11/11 00:00
Client ID:	P4-W-D1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 12:30
Analytical Date:	08/22/11 16:04	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1260	735		ug/kg	198	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	77		30-150
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	61		30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-21 D	Date Collected:	08/11/11 00:00
Client ID:	P4-W-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 16:50
Analytical Date:	08/18/11 16:54	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	08/17/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/17/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1570	--	10
Aroclor 1221	ND		ug/kg	1570	--	10
Aroclor 1232	ND		ug/kg	1570	--	10
Aroclor 1242	ND		ug/kg	1570	--	10
Aroclor 1248	9130		ug/kg	1050	--	10
Aroclor 1260	ND		ug/kg	1050	--	10
Aroclor 1262	ND		ug/kg	524	--	10
Aroclor 1268	ND		ug/kg	524	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-21 D	Date Collected:	08/11/11 00:00
Client ID:	P4-W-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 16:50
Analytical Date:	08/18/11 16:54	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	08/17/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/17/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	2240		ug/kg	1570	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-22	Date Collected:	08/11/11 00:00
Client ID:	P4-E-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 04:45
Analytical Date:	08/19/11 10:21	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	71.1	--	1
Aroclor 1221	ND		ug/kg	71.1	--	1
Aroclor 1232	ND		ug/kg	71.1	--	1
Aroclor 1242	ND		ug/kg	71.1	--	1
Aroclor 1254	493		ug/kg	71.1	--	1
Aroclor 1260	ND		ug/kg	47.4	--	1
Aroclor 1262	ND		ug/kg	23.7	--	1
Aroclor 1268	ND		ug/kg	23.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**11**	Q	30-150
Decachlorobiphenyl	**14**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**11**	Q	30-150
Decachlorobiphenyl	**14**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-22	Date Collected:	08/11/11 00:00
Client ID:	P4-E-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 04:45
Analytical Date:	08/19/11 10:21	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1248	518		ug/kg	47.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**11**	Q	30-150
Decachlorobiphenyl	**14**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**11**	Q	30-150
Decachlorobiphenyl	**14**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-23 D	Date Collected:	08/11/11 00:00
Client ID:	P7-S-D1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 04:45
Analytical Date:	08/19/11 09:41	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	2260	--	10
Aroclor 1221	ND		ug/kg	2260	--	10
Aroclor 1232	ND		ug/kg	2260	--	10
Aroclor 1242	ND		ug/kg	2260	--	10
Aroclor 1248	ND		ug/kg	1500	--	10
Aroclor 1254	13200	P	ug/kg	2260	--	10
Aroclor 1260	ND		ug/kg	1500	--	10
Aroclor 1262	ND		ug/kg	752	--	10
Aroclor 1268	ND		ug/kg	752	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-24 D	Date Collected:	08/11/11 00:00
Client ID:	P7-E-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 04:45
Analytical Date:	08/19/11 09:55	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	5430	--	50
Aroclor 1221	ND		ug/kg	5430	--	50
Aroclor 1232	ND		ug/kg	5430	--	50
Aroclor 1242	ND		ug/kg	5430	--	50
Aroclor 1248	ND		ug/kg	3620	--	50
Aroclor 1260	ND		ug/kg	3620	--	50
Aroclor 1262	ND		ug/kg	1810	--	50
Aroclor 1268	ND		ug/kg	1810	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-24 D	Date Collected:	08/11/11 00:00
Client ID:	P7-E-L1	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 04:45
Analytical Date:	08/19/11 09:55	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	7140	P	ug/kg	5430	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1112383

Project Number: 41062464.01 **Report Date:** 08/23/11

SAMPLE RESULTS

Lab ID:	L1112383-25 D	Date Collected:	08/11/11 00:00
Client ID:	P7-E-L2	Date Received:	08/12/11
Sample Location:	210 LOWELL ST. ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/16/11 04:45
Analytical Date:	08/19/11 10:08	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/19/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	726	--	10
Aroclor 1221	ND		ug/kg	726	--	10
Aroclor 1232	ND		ug/kg	726	--	10
Aroclor 1242	ND		ug/kg	726	--	10
Aroclor 1248	ND		ug/kg	484	--	10
Aroclor 1254	1680	P	ug/kg	726	--	10
Aroclor 1260	ND		ug/kg	484	--	10
Aroclor 1262	ND		ug/kg	242	--	10
Aroclor 1268	ND		ug/kg	242	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA

Project Number: 41062464.01

Lab Number: L1112383

Report Date: 08/23/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/19/11 10:35
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/16/11 04:45
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/19/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/19/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 22-25 Batch: WG484728-1					
Aroclor 1016	ND		ug/kg	60.0	--
Aroclor 1221	ND		ug/kg	60.0	--
Aroclor 1232	ND		ug/kg	60.0	--
Aroclor 1242	ND		ug/kg	60.0	--
Aroclor 1248	ND		ug/kg	40.0	--
Aroclor 1254	ND		ug/kg	60.0	--
Aroclor 1260	ND		ug/kg	40.0	--
Aroclor 1262	ND		ug/kg	20.0	--
Aroclor 1268	ND		ug/kg	20.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	62		30-150
2,4,5,6-Tetrachloro-m-xylene	96		30-150
Decachlorobiphenyl	88		30-150

Project Name: IRS-GSA

Project Number: 41062464.01

Lab Number: L1112383

Report Date: 08/23/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/19/11 15:38
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/16/11 12:30
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/19/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/19/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01-20 Batch: WG484729-1					
Aroclor 1016	ND		ug/kg	60.0	--
Aroclor 1221	ND		ug/kg	60.0	--
Aroclor 1232	ND		ug/kg	60.0	--
Aroclor 1242	ND		ug/kg	60.0	--
Aroclor 1248	ND		ug/kg	40.0	--
Aroclor 1254	ND		ug/kg	60.0	--
Aroclor 1260	ND		ug/kg	40.0	--
Aroclor 1262	ND		ug/kg	20.0	--
Aroclor 1268	ND		ug/kg	20.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	59		30-150
2,4,5,6-Tetrachloro-m-xylene	73		30-150
Decachlorobiphenyl	75		30-150

Project Name: IRS-GSA

Project Number: 41062464.01

Lab Number: L1112383

Report Date: 08/23/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/17/11 22:46
Analyst: GT

Extraction Method: EPA 3540C
Extraction Date: 08/16/11 16:50
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/17/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/17/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 21 Batch: WG484873-1					
Aroclor 1016	ND		ug/kg	20.0	--
Aroclor 1221	ND		ug/kg	20.0	--
Aroclor 1232	ND		ug/kg	20.0	--
Aroclor 1242	ND		ug/kg	20.0	--
Aroclor 1248	ND		ug/kg	13.3	--
Aroclor 1254	ND		ug/kg	20.0	--
Aroclor 1260	ND		ug/kg	13.3	--
Aroclor 1262	ND		ug/kg	6.67	--
Aroclor 1268	ND		ug/kg	6.67	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	100		30-150
Decachlorobiphenyl	80		30-150
2,4,5,6-Tetrachloro-m-xylene	120		30-150
Decachlorobiphenyl	94		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: IRS-GSA
Project Number: 41062464.01

Lab Number: L1112383
Report Date: 08/23/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 22-25 Batch: WG484728-2 WG484728-3								
Aroclor 1016	77		87		40-140	12		50
Aroclor 1260	71		75		40-140	5		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	66		79		30-150
Decachlorobiphenyl	57		59		30-150
2,4,5,6-Tetrachloro-m-xylene	83		96		30-150
Decachlorobiphenyl	79		81		30-150

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01-20 Batch: WG484729-2 WG484729-3								
Aroclor 1016	**29**	Q	81		40-140	**95**	Q	50
Aroclor 1260	73		82		40-140	12		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	6	Q	74		30-150
Decachlorobiphenyl	67		62		30-150
2,4,5,6-Tetrachloro-m-xylene	6	Q	77		30-150
Decachlorobiphenyl	82		80		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: IRS-GSA
Project Number: 41062464.01

Lab Number: L1112383
Report Date: 08/23/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 21 Batch: WG484873-2 WG484873-3								
Aroclor 1016	115		105		40-140	9		50
Aroclor 1260	96		89		40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	92		91		30-150
Decachlorobiphenyl	85		76		30-150
2,4,5,6-Tetrachloro-m-xylene	120		108		30-150
Decachlorobiphenyl	100		78		30-150

Project Name: IRS-GSA
Project Number: 41062464.01

Lab Number: L1112383
Report Date: 08/23/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1112383-01A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-02A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-03A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-04A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-05A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-06A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-07A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-08A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-09A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-10A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-11A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-12A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-13A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-14A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-15A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-16A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-17A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-18A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-19A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-20A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-21A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-22A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-23A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-24A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)
L1112383-25A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	PCB-8082LL-3540C(14)

*Values in parentheses indicate holding time in days

Project Name:	IRS-GSA	**Lab Number:**	L1112383
Project Number:	41062464.01	**Report Date:**	08/23/11

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Project Name:	IRS-GSA	**Lab Number:**	L1112383
Project Number:	41062464.01	**Report Date:**	08/23/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: IRS-GSA **Lab Number:** L1112383
Project Number: 41062464.01 **Report Date:** 08/23/11

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B**,** 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 3

Date Rec'd in Lab: 8/12/11

ALPHA Job #: L1112383

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: URS Corp
Address: 5 Industrial Way
Salem, NH 03089
Phone: 603-893-0616
Fax: 603-893-6240
Email: THOMAS_LAZOTI@URSCORP.COM
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: ERS-GSA
Project Location: 310 Lowell St, Andover, MA
Project #: 14062464.0
Project Manager: Tom LAZOTI
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 8/19/11 Time:

Report Information - Data Deliverables

☑ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All ***CAM*** methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: EPA 8082 | Soxhlet extraction

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	Total # Bottles
12383 1	ST1-W-D1	8-11-11		Caulk	DD		
2	P13-S-D1						
3	P13-E-L1						
4	P13-E-L2						
5	P10-S-D1						
6	P10-E-L1						
7	P10-E-L2						
8	P10-N-L1						
9	P10-S-L1						
10	P08-S-D1						

Container Type: G
Preservative: Ice

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	8-11-11 1438	[illegible]	8/12/11
[illegible]	8/12/11 1700	[illegible]	8/12/11 17a

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:08231115:53

CHAIN OF CUSTODY

PAGE 2 OF 3

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/12/11

ALPHA Job #: L1112383

Client Information

Client: URS Corp

Address: 5 Industrial Way Salem, NH 03089

Phone: 603-893-0616

Fax: 603-893-6240

Email: THomas_Lazotti@URS Corp.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: IAS-GSA

Project Location: 310 Howard St. Andover, MA

Project #: 41062464.01

Project Manager: Tom Lazotti

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 8/19/11 Time:

Report Information - Data Deliverables

☑ FAX ☑ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: EPA 8082 Soxhlet extraction	Sample Specific Comments	TOTAL # BOTTLES
L2383 11	P08-E-L1	8-11-11		Caulk	SD			
12	P08-E-L2							
13	P5-E-D1							
14	P5-E-L1							
15	P5-E-L2							
16	P5-N-L1							
17	P3-W-D1							
18	P3-W-L1							
19	P3-E-L1							
20	P4-W-D1							

Container Type: G

Preservative: Ice

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	8-11-11 1438	[illegible]	8/12/11 10
[illegible]	8/12/11	[illegible]	8/12/11 12m

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:08231115:53

CHAIN OF CUSTODY

PAGE 3 OF 3

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/12/11

ALPHA Job #: L1112383

Client Information

Client: URS Corp

Address: 5 Industrial Way Salem, NH 03089

Phone: 603-893-0616

Fax: 603-893-6240

Email: Thomas_Lazotti@urscorp.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: IRS-GSA

Project Location: 310 Lowell St. Andover, MA

Project #: 41062464.01

Project Manager: Tom Lazotti

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 8/19/11 Time:

Report Information - Data Deliverables

☑ FAX ☑ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: EPA 8082 Soxhlet Extraction

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	TOTAL # BOTTLES
12383.21	P4-W-L1	8-11-11		Caulk	SD	Note	
22	P4-E-L1					Nomenclature for	
23	P7-S-D1					Louvers & Doors	
24	P7-E-L1					Runs So. - No.	
25	P7-E-L2					W - Ea.	
						P- Penthouse	
						E- Compass Dir. of Wall	
						L- Louvre	
						D- Door	

Container Type: G

Preservative: Ice

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	8-11-11 1438	[illegible]	8/12/11 1[illegible]
[illegible]	8/12/11 17[illegible]	[illegible]	8/12/11 1700

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:08231115:53

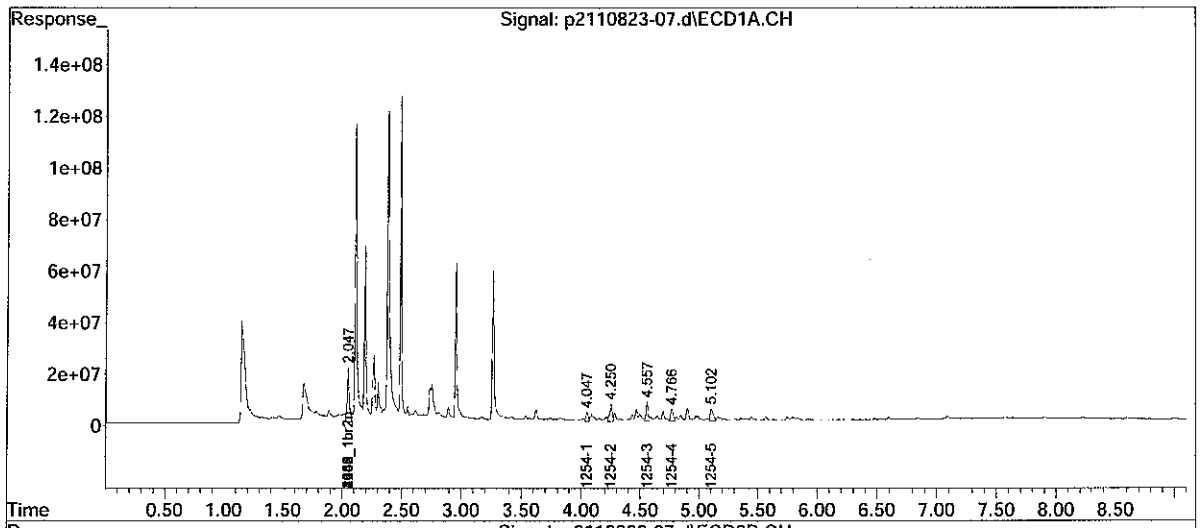
Quantitation Report (QT Reviewed)

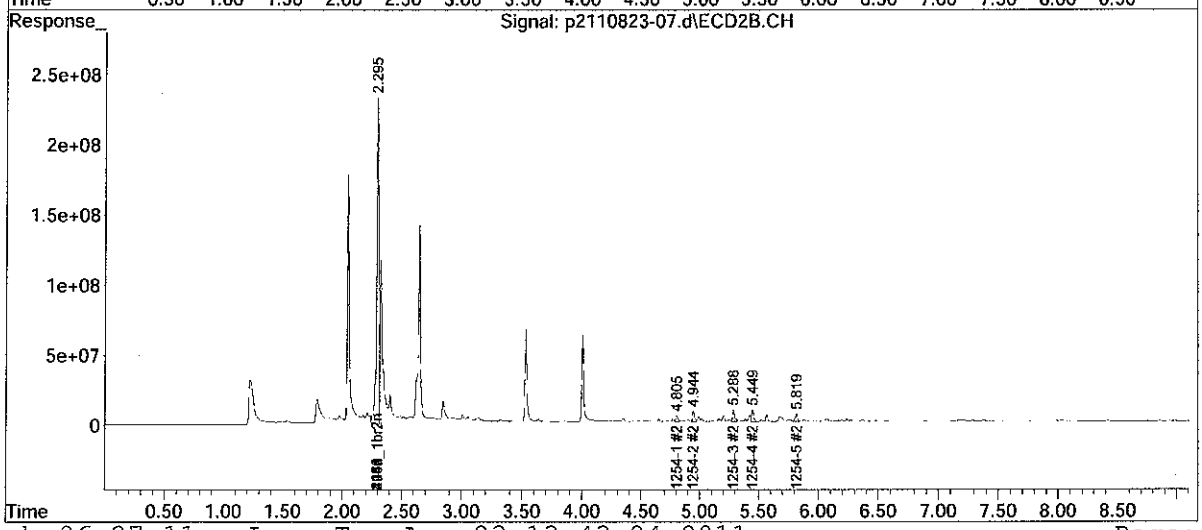
Data Path : I:\Pest2\110823\
Data File : p2110823-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2011 11:09 am
Operator : pest2:kb
Sample : l1112383-11d,42e,20,fv5
Misc : wg485459,wg484729,ical6014
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 23 11:40:58 2011
Quant Method : I:\Pest2\Methods Pest2\P2_pcb 06-27-11_ugL_.m
Quant Title : pcb
QLast Update : Thu Aug 18 15:12:41 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed



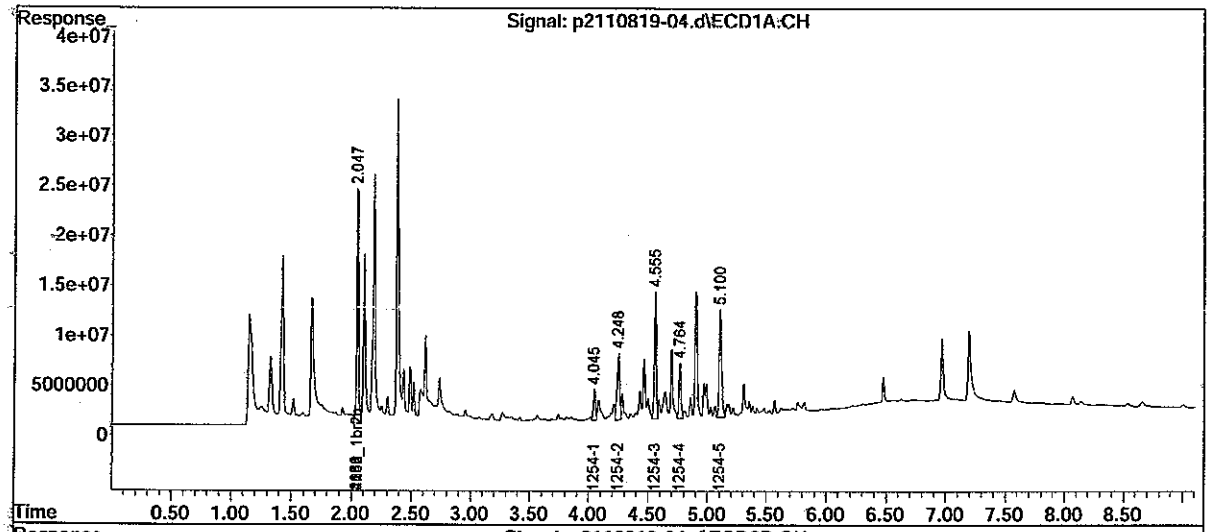


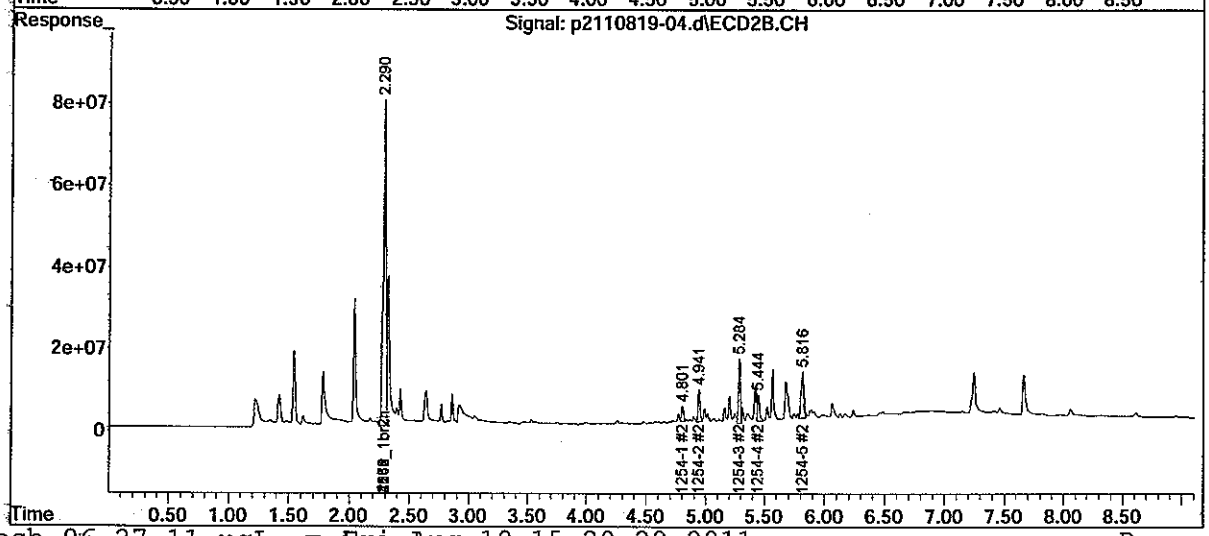
Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest2\110819\
Data File : p2110819-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2011 9:41 am
Operator : pest2:kb
Sample : l1112383-23d,42e,10,
Misc : wg485450,wg484728,ical6014
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 19 15:19:25 2011
Quant Method : I:\Pest2\Methods Pest2\P2_pcb 06-27-11_ugL_.m
Quant Title : pcb
QLast Update : Thu Aug 18 15:12:41 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



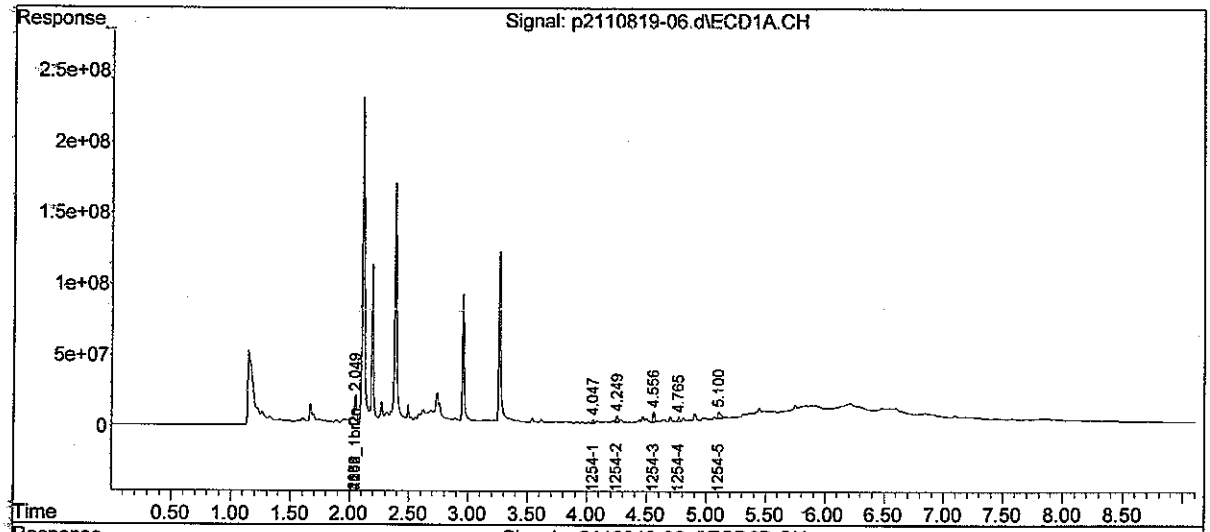


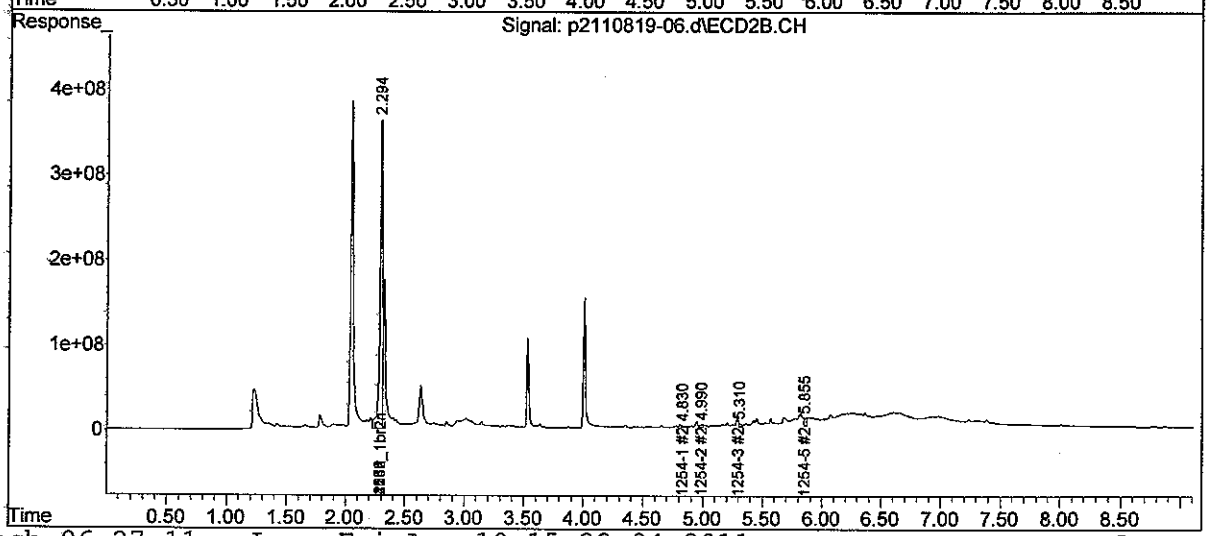
Sub List : Default - All compounds listed Reviewed) Serial_No:08231115:53

Data Path : I:\Pest2\110819\
Data File : p2110819-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2011 10:08 am
Operator : pest2:kb
Sample : 11112383-25d,42e,10,
Misc : wg485450,wg484728,ical6014
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 19 15:30:47 2011
Quant Method : I:\Pest2\Methods Pest2\P2_pcb 06-27-11_ugL_.m
Quant Title : pcb
QLast Update : Thu Aug 18 15:12:41 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





ANALYTICAL REPORT

Lab Number:	L1113015
Client:	URS Corporation 5 Industrial Way Salem, NH 03079
ATTN:	Marilyn Wade
Phone:	(603) 893-0616
Project Name:	IRS/GSA
Project Number:	41062464
Report Date:	08/30/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: IRS/GSA
Project Number: 41062464

Lab Number: L1113015
Report Date: 08/30/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1113015-01	14L-H-W1	ANDOVER, MA	08/20/11 08:28
L1113015-02	14L-H-D1	ANDOVER, MA	08/20/11 08:40
L1113015-03	14L-H-D2	ANDOVER, MA	08/20/11 08:42
L1113015-04	12L-B-D1	ANDOVER, MA	08/20/11 09:10
L1113015-05	12L-B-D2	ANDOVER, MA	08/20/11 09:15
L1113015-06	12L-BE-D1	ANDOVER, MA	08/20/11 09:25
L1113015-07	13L-AE-W1	ANDOVER, MA	08/20/11 09:35
L1113015-08	13L-AE-W2	ANDOVER, MA	08/20/11 09:40
L1113015-09	13L-AE-W3	ANDOVER, MA	08/20/11 09:45
L1113015-10	13L-AE-W4	ANDOVER, MA	08/20/11 09:50
L1113015-11	13L-AE-W5	ANDOVER, MA	08/20/11 09:55
L1113015-12	13L-AE-W6	ANDOVER, MA	08/20/11 10:05
L1113015-13	13L-AE-W7	ANDOVER, MA	08/20/11 10:10
L1113015-14	13L-AE-W8	ANDOVER, MA	08/20/11 10:20
L1113015-15	13L-AE-W9	ANDOVER, MA	08/20/11 10:25
L1113015-16	13L-AE-W10	ANDOVER, MA	08/20/11 10:35
L1113015-17	13L-AE-W11	ANDOVER, MA	08/20/11 10:45
L1113015-18	13L-AE-W12	ANDOVER, MA	08/20/11 10:55
L1113015-19	13L-AE-W13	ANDOVER, MA	08/20/11 11:00
L1113015-20	13L-AE-W14	ANDOVER, MA	08/20/11 11:05

Project Name: IRS/GSA
Project Number: 41062464

Lab Number: L1113015
Report Date: 08/30/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

PCBs

L1113015-01, -06, -12 and -16 have elevated detection limits due to the dilutions required by the matrix interferences encountered during the concentration of the samples and the analytical dilutions required by the target compounds present in the samples.

The surrogate recoveries for L1113015-01, -04, -05, -06 and -08 through -20 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all at 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

L1113015-02, -04, -05, -07 through -11, -13, -14, -15 and -17 through -20 have elevated detection limits due to the dilutions required by matrix interferences encountered during the concentration of the samples.

L1113015-03 has elevated detection limits due to the dilution required by matrix interferences encountered during the concentration of the sample and due to limited sample volume available for analysis.

Project Name: IRS/GSA
Project Number: 41062464

Lab Number: L1113015
Report Date: 08/30/11

Case Narrative (continued)

The surrogate recoveries for L1113015-03 were outside the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene (9%/6%) and Decachlorobiphenyl (3%/7%); however, re-extraction could not be performed due to lack of additional sample. The results of the original analysis are reported.

L1113015-08 through -17 and -20 contain peaks which match the retention times for Aroclor 1254, but do not match the area ratios typical for this Aroclor. The results for Aroclor 1254 are reported as "Altered".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative

Date: 08/30/11

ORGANICS

PCBS

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-01	D	Date Collected:	08/20/11 08:28
Client ID:	14L-H-W1		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 19:12
Analytical Date:	08/30/11 11:43		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	53200	--	1000
Aroclor 1221	ND		ug/kg	53200	--	1000
Aroclor 1232	ND		ug/kg	53200	--	1000
Aroclor 1242	ND		ug/kg	53200	--	1000
Aroclor 1248	ND		ug/kg	35500	--	1000
Aroclor 1260	ND		ug/kg	35500	--	1000
Aroclor 1262	ND		ug/kg	17700	--	1000
Aroclor 1268	ND		ug/kg	17700	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-01	D	Date Collected:	08/20/11 08:28
Client ID:	14L-H-W1		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 19:12
Analytical Date:	08/30/11 11:43		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	686000		ug/kg	53200	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-02	Date Collected:	08/20/11 08:40
Client ID:	14L-H-D1	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 17:20	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	378	--	7
Aroclor 1221	ND		ug/kg	378	--	7
Aroclor 1232	ND		ug/kg	378	--	7
Aroclor 1242	ND		ug/kg	378	--	7
Aroclor 1248	ND		ug/kg	252	--	7
Aroclor 1262	ND		ug/kg	126	--	7
Aroclor 1268	ND		ug/kg	126	--	7

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	48		30-150
2,4,5,6-Tetrachloro-m-xylene	72		30-150
Decachlorobiphenyl	70		30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-02	Date Collected:	08/20/11 08:40
Client ID:	14L-H-D1	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 17:20	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	1170		ug/kg	378	--	7
Aroclor 1260	2180		ug/kg	252	--	7

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	48		30-150
2,4,5,6-Tetrachloro-m-xylene	72		30-150
Decachlorobiphenyl	70		30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-03	Date Collected:	08/20/11 08:42
Client ID:	14L-H-D2	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 17:20
Analytical Date:	08/30/11 12:36	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/30/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/30/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1530	--	5
Aroclor 1221	ND		ug/kg	1530	--	5
Aroclor 1232	ND		ug/kg	1530	--	5
Aroclor 1242	ND		ug/kg	1530	--	5
Aroclor 1248	ND		ug/kg	1020	--	5
Aroclor 1254	ND		ug/kg	1530	--	5
Aroclor 1260	ND		ug/kg	1020	--	5
Aroclor 1262	ND		ug/kg	510	--	5
Aroclor 1268	ND		ug/kg	510	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**9**	Q	30-150
Decachlorobiphenyl	**3**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**6**	Q	30-150
Decachlorobiphenyl	**7**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-04	Date Collected:	08/20/11 09:10
Client ID:	12L-B-D1	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 17:33	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1500	--	28
Aroclor 1221	ND		ug/kg	1500	--	28
Aroclor 1232	ND		ug/kg	1500	--	28
Aroclor 1242	ND		ug/kg	1500	--	28
Aroclor 1248	ND		ug/kg	1000	--	28
Aroclor 1254	ND		ug/kg	1500	--	28
Aroclor 1260	ND		ug/kg	1000	--	28
Aroclor 1262	ND		ug/kg	502	--	28
Aroclor 1268	ND		ug/kg	502	--	28

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-05	Date Collected:	08/20/11 09:15
Client ID:	12L-B-D2	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 17:47	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	518	--	10
Aroclor 1221	ND		ug/kg	518	--	10
Aroclor 1232	ND		ug/kg	518	--	10
Aroclor 1242	ND		ug/kg	518	--	10
Aroclor 1248	ND		ug/kg	345	--	10
Aroclor 1260	ND		ug/kg	345	--	10
Aroclor 1262	ND		ug/kg	173	--	10
Aroclor 1268	ND		ug/kg	173	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-05	Date Collected:	08/20/11 09:15
Client ID:	12L-B-D2	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 17:47	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	3670		ug/kg	518	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-06	D	Date Collected:	08/20/11 09:25
Client ID:	12L-BE-D1		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 19:12
Analytical Date:	08/30/11 14:01		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	421000	--	8000
Aroclor 1221	ND		ug/kg	421000	--	8000
Aroclor 1232	ND		ug/kg	421000	--	8000
Aroclor 1242	ND		ug/kg	421000	--	8000
Aroclor 1248	ND		ug/kg	281000	--	8000
Aroclor 1260	ND		ug/kg	281000	--	8000
Aroclor 1262	ND		ug/kg	140000	--	8000
Aroclor 1268	ND		ug/kg	140000	--	8000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-06	D	Date Collected:	08/20/11 09:25
Client ID:	12L-BE-D1		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 19:12
Analytical Date:	08/30/11 14:01		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	4340000		ug/kg	421000	--	8000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-07	Date Collected:	08/20/11 09:35
Client ID:	13L-AE-W1	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 18:13	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	251	--	5
Aroclor 1221	ND		ug/kg	251	--	5
Aroclor 1232	ND		ug/kg	251	--	5
Aroclor 1242	ND		ug/kg	251	--	5
Aroclor 1248	ND		ug/kg	167	--	5
Aroclor 1260	ND		ug/kg	167	--	5
Aroclor 1262	ND		ug/kg	83.6	--	5
Aroclor 1268	ND		ug/kg	83.6	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	49		30-150
Decachlorobiphenyl	31		30-150
2,4,5,6-Tetrachloro-m-xylene	50		30-150
Decachlorobiphenyl	50		30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-07	Date Collected:	08/20/11 09:35
Client ID:	13L-AE-W1	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 18:13	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	1880		ug/kg	251	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	49		30-150
Decachlorobiphenyl	31		30-150
2,4,5,6-Tetrachloro-m-xylene	50		30-150
Decachlorobiphenyl	50		30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-08	Date Collected:	08/20/11 09:40
Client ID:	13L-AE-W2	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 18:26	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1260	--	24
Aroclor 1221	ND		ug/kg	1260	--	24
Aroclor 1232	ND		ug/kg	1260	--	24
Aroclor 1242	ND		ug/kg	1260	--	24
Aroclor 1248	ND		ug/kg	841	--	24
Aroclor 1260	ND		ug/kg	841	--	24
Aroclor 1262	ND		ug/kg	420	--	24
Aroclor 1268	ND		ug/kg	420	--	24

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-08	Date Collected:	08/20/11 09:40
Client ID:	13L-AE-W2	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 18:26	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	1880		ug/kg	1260	--	24

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-09	Date Collected:	08/20/11 09:45
Client ID:	13L-AE-W3	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 18:39	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1220	--	25
Aroclor 1221	ND		ug/kg	1220	--	25
Aroclor 1232	ND		ug/kg	1220	--	25
Aroclor 1242	ND		ug/kg	1220	--	25
Aroclor 1248	ND		ug/kg	817	--	25
Aroclor 1260	ND		ug/kg	817	--	25
Aroclor 1262	ND		ug/kg	408	--	25
Aroclor 1268	ND		ug/kg	408	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-09	Date Collected:	08/20/11 09:45
Client ID:	13L-AE-W3	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 18:39	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	5360		ug/kg	1220	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-10	Date Collected:	08/20/11 09:50
Client ID:	13L-AE-W4	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 18:53	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1250	--	22
Aroclor 1221	ND		ug/kg	1250	--	22
Aroclor 1232	ND		ug/kg	1250	--	22
Aroclor 1242	ND		ug/kg	1250	--	22
Aroclor 1248	ND		ug/kg	833	--	22
Aroclor 1260	ND		ug/kg	833	--	22
Aroclor 1262	ND		ug/kg	417	--	22
Aroclor 1268	ND		ug/kg	417	--	22

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-10	Date Collected:	08/20/11 09:50
Client ID:	13L-AE-W4	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 18:53	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	7740		ug/kg	1250	--	22

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-11	Date Collected:	08/20/11 09:55
Client ID:	13L-AE-W5	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 19:06	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	863	--	16
Aroclor 1221	ND		ug/kg	863	--	16
Aroclor 1232	ND		ug/kg	863	--	16
Aroclor 1242	ND		ug/kg	863	--	16
Aroclor 1248	ND		ug/kg	576	--	16
Aroclor 1260	ND		ug/kg	576	--	16
Aroclor 1262	ND		ug/kg	288	--	16
Aroclor 1268	ND		ug/kg	288	--	16

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-11	Date Collected:	08/20/11 09:55
Client ID:	13L-AE-W5	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 19:06	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	1870		ug/kg	863	--	16

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-12	D	Date Collected:	08/20/11 10:05
Client ID:	13L-AE-W6		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 19:12
Analytical Date:	08/30/11 12:09		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	5240	--	100
Aroclor 1221	ND		ug/kg	5240	--	100
Aroclor 1232	ND		ug/kg	5240	--	100
Aroclor 1242	ND		ug/kg	5240	--	100
Aroclor 1248	ND		ug/kg	3500	--	100
Aroclor 1260	ND		ug/kg	3500	--	100
Aroclor 1262	ND		ug/kg	1750	--	100
Aroclor 1268	ND		ug/kg	1750	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-12	D	Date Collected:	08/20/11 10:05
Client ID:	13L-AE-W6		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 19:12
Analytical Date:	08/30/11 12:09		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	37900		ug/kg	5240	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-13	Date Collected:	08/20/11 10:10
Client ID:	13L-AE-W7	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 19:33	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1080	--	20
Aroclor 1221	ND		ug/kg	1080	--	20
Aroclor 1232	ND		ug/kg	1080	--	20
Aroclor 1242	ND		ug/kg	1080	--	20
Aroclor 1248	ND		ug/kg	717	--	20
Aroclor 1260	ND		ug/kg	717	--	20
Aroclor 1262	ND		ug/kg	358	--	20
Aroclor 1268	ND		ug/kg	358	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-13	Date Collected:	08/20/11 10:10
Client ID:	13L-AE-W7	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 19:33	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	6170		ug/kg	1080	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-14	Date Collected:	08/20/11 10:20
Client ID:	13L-AE-W8	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 20:39	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1230	--	23
Aroclor 1221	ND		ug/kg	1230	--	23
Aroclor 1232	ND		ug/kg	1230	--	23
Aroclor 1242	ND		ug/kg	1230	--	23
Aroclor 1248	ND		ug/kg	818	--	23
Aroclor 1260	ND		ug/kg	818	--	23
Aroclor 1262	ND		ug/kg	409	--	23
Aroclor 1268	ND		ug/kg	409	--	23

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-14	Date Collected:	08/20/11 10:20
Client ID:	13L-AE-W8	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 20:39	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	3580		ug/kg	1230	--	23

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-15	Date Collected:	08/20/11 10:25
Client ID:	13L-AE-W9	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 20:52	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1240	--	23
Aroclor 1221	ND		ug/kg	1240	--	23
Aroclor 1232	ND		ug/kg	1240	--	23
Aroclor 1242	ND		ug/kg	1240	--	23
Aroclor 1248	ND		ug/kg	827	--	23
Aroclor 1260	ND		ug/kg	827	--	23
Aroclor 1262	ND		ug/kg	414	--	23
Aroclor 1268	ND		ug/kg	414	--	23

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-15	Date Collected:	08/20/11 10:25
Client ID:	13L-AE-W9	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 20:52	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	7550		ug/kg	1240	--	23

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-16	D	Date Collected:	08/20/11 10:35
Client ID:	13L-AE-W10		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 19:12
Analytical Date:	08/30/11 12:23		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	2770	--	50
Aroclor 1221	ND		ug/kg	2770	--	50
Aroclor 1232	ND		ug/kg	2770	--	50
Aroclor 1242	ND		ug/kg	2770	--	50
Aroclor 1248	ND		ug/kg	1850	--	50
Aroclor 1260	ND		ug/kg	1850	--	50
Aroclor 1262	ND		ug/kg	924	--	50
Aroclor 1268	ND		ug/kg	924	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-16	D	Date Collected:	08/20/11 10:35
Client ID:	13L-AE-W10		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 19:12
Analytical Date:	08/30/11 12:23		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	16000		ug/kg	2770	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-17	Date Collected:	08/20/11 10:45
Client ID:	13L-AE-W11	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 21:18	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	799	--	15
Aroclor 1221	ND		ug/kg	799	--	15
Aroclor 1232	ND		ug/kg	799	--	15
Aroclor 1242	ND		ug/kg	799	--	15
Aroclor 1248	ND		ug/kg	533	--	15
Aroclor 1260	ND		ug/kg	533	--	15
Aroclor 1262	ND		ug/kg	266	--	15
Aroclor 1268	ND		ug/kg	266	--	15

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-17	Date Collected:	08/20/11 10:45
Client ID:	13L-AE-W11	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 21:18	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	8490		ug/kg	799	--	15

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-18	Date Collected:	08/20/11 10:55
Client ID:	13L-AE-W12	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 19:12
Analytical Date:	08/26/11 21:32	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	632	--	12
Aroclor 1221	ND		ug/kg	632	--	12
Aroclor 1232	ND		ug/kg	632	--	12
Aroclor 1242	ND		ug/kg	632	--	12
Aroclor 1248	ND		ug/kg	421	--	12
Aroclor 1254	ND		ug/kg	632	--	12
Aroclor 1260	ND		ug/kg	421	--	12
Aroclor 1262	ND		ug/kg	210	--	12
Aroclor 1268	ND		ug/kg	210	--	12

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-19	Date Collected:	08/20/11 11:00
Client ID:	13L-AE-W13	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/26/11 21:45	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1420	--	27
Aroclor 1221	ND		ug/kg	1420	--	27
Aroclor 1232	ND		ug/kg	1420	--	27
Aroclor 1242	ND		ug/kg	1420	--	27
Aroclor 1248	ND		ug/kg	947	--	27
Aroclor 1260	ND		ug/kg	947	--	27
Aroclor 1262	ND		ug/kg	474	--	27
Aroclor 1268	ND		ug/kg	474	--	27

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-19	Date Collected:	08/20/11 11:00
Client ID:	13L-AE-W13	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/26/11 21:45	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/26/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	14200		ug/kg	1420	--	27

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-20	Date Collected:	08/20/11 11:05
Client ID:	13L-AE-W14	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 07:06	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	548	--	10
Aroclor 1221	ND		ug/kg	548	--	10
Aroclor 1232	ND		ug/kg	548	--	10
Aroclor 1242	ND		ug/kg	548	--	10
Aroclor 1248	ND		ug/kg	366	--	10
Aroclor 1260	ND		ug/kg	366	--	10
Aroclor 1262	ND		ug/kg	183	--	10
Aroclor 1268	ND		ug/kg	183	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

SAMPLE RESULTS

Lab ID:	L1113015-20	Date Collected:	08/20/11 11:05
Client ID:	13L-AE-W14	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 07:06	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	5050		ug/kg	548	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA

Project Number: 41062464

Lab Number: L1113015

Report Date: 08/30/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/26/11 19:46
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/24/11 19:12
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/26/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/26/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01-02,04-18 Batch: WG486310-1					
Aroclor 1016	ND		ug/kg	60.0	--
Aroclor 1221	ND		ug/kg	60.0	--
Aroclor 1232	ND		ug/kg	60.0	--
Aroclor 1242	ND		ug/kg	60.0	--
Aroclor 1248	ND		ug/kg	40.0	--
Aroclor 1254	ND		ug/kg	60.0	--
Aroclor 1260	ND		ug/kg	40.0	--
Aroclor 1262	ND		ug/kg	20.0	--
Aroclor 1268	ND		ug/kg	20.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	51		30-150
2,4,5,6-Tetrachloro-m-xylene	72		30-150
Decachlorobiphenyl	70		30-150

Project Name: IRS/GSA

Project Number: 41062464

Lab Number: L1113015

Report Date: 08/30/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/27/11 10:51
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/24/11 23:50
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/27/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/27/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 19-20 Batch: WG486341-1					
Aroclor 1016	ND		ug/kg	59.8	--
Aroclor 1221	ND		ug/kg	59.8	--
Aroclor 1232	ND		ug/kg	59.8	--
Aroclor 1242	ND		ug/kg	59.8	--
Aroclor 1248	ND		ug/kg	39.8	--
Aroclor 1254	ND		ug/kg	59.8	--
Aroclor 1260	ND		ug/kg	39.8	--
Aroclor 1262	ND		ug/kg	19.9	--
Aroclor 1268	ND		ug/kg	19.9	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	64		30-150
Decachlorobiphenyl	47		30-150
2,4,5,6-Tetrachloro-m-xylene	65		30-150
Decachlorobiphenyl	74		30-150

Project Name: IRS/GSA

Project Number: 41062464

Lab Number: L1113015

Report Date: 08/30/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/30/11 12:49
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/26/11 17:20
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/30/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/30/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 03 Batch: WG486774-1					
Aroclor 1016	ND		ug/kg	60.0	--
Aroclor 1221	ND		ug/kg	60.0	--
Aroclor 1232	ND		ug/kg	60.0	--
Aroclor 1242	ND		ug/kg	60.0	--
Aroclor 1248	ND		ug/kg	40.0	--
Aroclor 1254	ND		ug/kg	60.0	--
Aroclor 1260	ND		ug/kg	40.0	--
Aroclor 1262	ND		ug/kg	20.0	--
Aroclor 1268	ND		ug/kg	20.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	95		30-150
Decachlorobiphenyl	72		30-150
2,4,5,6-Tetrachloro-m-xylene	87		30-150
Decachlorobiphenyl	95		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: IRS/GSA
Project Number: 41062464

Lab Number: L1113015
Report Date: 08/30/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01-02,04-18 Batch: WG486310-2 WG486310-3								
Aroclor 1016	66		57		40-140	15		50
Aroclor 1260	53		51		40-140	4		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	52		58		30-150
Decachlorobiphenyl	44		43		30-150
2,4,5,6-Tetrachloro-m-xylene	57		62		30-150
Decachlorobiphenyl	64		58		30-150

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 19-20 Batch: WG486341-2 WG486341-3								
Aroclor 1016	59		65		40-140	10		50
Aroclor 1260	52		58		40-140	11		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	60		63		30-150
Decachlorobiphenyl	44		75		30-150
2,4,5,6-Tetrachloro-m-xylene	60		64		30-150
Decachlorobiphenyl	62		80		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: IRS/GSA
Project Number: 41062464

Lab Number: L1113015
Report Date: 08/30/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 03 Batch: WG486774-2 WG486774-3								
Aroclor 1016	96		89		40-140	8		50
Aroclor 1260	71		77		40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	75		87		30-150
Decachlorobiphenyl	67		67		30-150
2,4,5,6-Tetrachloro-m-xylene	88		85		30-150
Decachlorobiphenyl	85		89		30-150

Project Name: IRS/GSA
Project Number: 41062464

Lab Number: L1113015
Report Date: 08/30/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1113015-01A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-02A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-03A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-04A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-05A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-06A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-07A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-08A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-09A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-10A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-11A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-12A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-13A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-14A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-15A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-16A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-17A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-18A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-19A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113015-20A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)

Container Comments

L1113015-10A

L1113015-13A

L1113015-19A

*Values in parentheses indicate holding time in days

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Project Name: IRS/GSA **Lab Number:** L1113015

Project Number: 41062464 **Report Date:** 08/30/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: IRS/GSA **Lab Number:** L1113015
Project Number: 41062464 **Report Date:** 08/30/11

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B**,** 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 6

Date Rec'd in Lab: 8/22/11

ALPHA Job #: L1113015

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: URS Corp
Address: 5 Industrial Way Salem, NH
Phone: 603-893-0616
Fax:
Email: marilyn_wade@urscorp.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: IRS/GSA
Project Location: Andover, MA
Project #: 41062464
Project Manager: Marilyn Wade
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 8/29/11 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All ***CAM*** methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: PCBs

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCBs	Sample Specific Comments	TOTAL # BOTTLES
3015 -01	14L-H-W1	8/20/11	838	W-solid	WB/BF/DD	X		
-02	14L-H-D1		840					
-03	14L-H-D2		842					
-04	12L-B-D1		910					
-05	12L-B-D2		915					
-06	12L-BE-D1		925					
-07	13L-AE-W1		935					
-08	13L-AE-W2		940					
-09	13L-AE-W3		945					
-10	13L-AE-W4		950					

Container Type	G
Preservative	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/22/11 1605	[signature]	8/22/11 1725
[signature]	8/22/11 1605	[signature]	8/22/11 1600

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:08301117:35

CHAIN OF CUSTODY

PAGE 2 OF 4

Date Rec'd in Lab: 8/22/11

ALPHA Job #: L1113015

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: URS Corp
Address: 5 Industrial Way Salem, NH
Phone: 603-893-0616
Fax:
Email: marilyn_wade@urscorp.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: IRS/GSA
Project Location: Andover, MA
Project #: 41062464
Project Manager: Marilyn Wade
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 8/29/11 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All ***CAM*** methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: PCBS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCBS	Sample Specific Comments	TOTAL # BOTTLES
3015 -11	13L-AE-W5	8/20/11	955	X/-solid	WB/BF/DD	X		
-12	13L-AE-W6		1005					
-13	13L-AE-W7		1010					
-14	13L-AE-W8		1020					
-15	13L-AE-W9		1025					
-16	13L-AE-W10		1035					
-17	13L-AE-W11		1045					
-18	13L-AE-W12		1055					
-19	13L-AE-W13		1100					
-20	13L-AE-W14		1105					

Container Type: G
Preservative: A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/22/11	[signature]	8/22/11 1215
[signature]	8/22/11 1640	[signature]	8/22/11 1600

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial No:08301117:35

ANALYTICAL REPORT

Lab Number:	L1113019
Client:	URS Corporation 5 Industrial Way Salem, NH 03079
ATTN:	Marilyn Wade
Phone:	(603) 893-0616
Project Name:	IRS/GSA
Project Number:	41062464
Report Date:	09/02/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: IRS/GSA
Project Number: 41062464

Lab Number: L1113019
Report Date: 09/02/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1113019-01	13L-AE-W15	ANDOVER, MA	08/20/11 11:10
L1113019-02	13L-AE-W16	ANDOVER, MA	08/20/11 11:20
L1113019-03	13L-AE-W17	ANDOVER, MA	08/20/11 11:30
L1113019-04	13L-AE-W18	ANDOVER, MA	08/20/11 11:40
L1113019-05	13L-AE-W19	ANDOVER, MA	08/20/11 11:45
L1113019-06	13L-AE-W20	ANDOVER, MA	08/20/11 11:55
L1113019-07	13L-AE-W21	ANDOVER, MA	08/20/11 12:00
L1113019-08	13L-AE-W22	ANDOVER, MA	08/20/11 12:05
L1113019-09	13L-AE-W23	ANDOVER, MA	08/20/11 12:10
L1113019-10	13L-AE-W24	ANDOVER, MA	08/20/11 12:20
L1113019-11	13L-AE-W25	ANDOVER, MA	08/20/11 12:30
L1113019-12	13L-AE-W26	ANDOVER, MA	08/20/11 12:35
L1113019-13	13L-AE-W27	ANDOVER, MA	08/20/11 12:40
L1113019-14	13L-AE-W28	ANDOVER, MA	08/20/11 12:45
L1113019-15	13L-AE-W29	ANDOVER, MA	08/20/11 12:50
L1113019-16	13L-AE-W30	ANDOVER, MA	08/20/11 12:55
L1113019-17	14L-LOUVER1	ANDOVER, MA	08/20/11 13:05
L1113019-18	13L-AE-D1	ANDOVER, MA	08/20/11 13:15
L1113019-19	6L-DE-W1	ANDOVER, MA	08/20/11 13:25
L1113019-20	6L-CE-W1	ANDOVER, MA	08/20/11 13:35

Project Name: IRS/GSA **Lab Number:** L1113019
Project Number: 41062464 **Report Date:** 09/02/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

This final report replaces the partial report issued August 31, 2011, and includes the results of all requested analyses.

PCBs

L1113019-01 through -12, -14 through -16 and -18 contain peaks which match the retention times for Aroclor 1254, but do not match the area ratios typical for this Aroclor. The results for Aroclor 1254 are reported as "altered".

L1113019-01 through -14, -16 and -18 have elevated detection limits due to the dilutions required by matrix interferences encountered during the concentration of the samples.

L1113019-15, -19 and -20 have elevated detection limits due to the dilutions required by the matrix interferences encountered during the concentration of the samples and the analytical dilutions required by the

Project Name: IRS/GSA **Lab Number:** L1113019
Project Number: 41062464 **Report Date:** 09/02/11

Case Narrative (continued)

target compounds present in the samples.

L1113019-17 has elevated detection limits due to the dilution required by the sample matrix.

The surrogate recoveries for L1113019-01 through -20 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

The dual column RPD for L1113019-08 is above the acceptance criteria for 1254; however, no obvious column interferences are present. The higher of the two results is reported and qualified with a "P".

The WG486348-1 Method Blank, associated with L1113019-19 and -20, has a concentration above the reporting limit for Aroclor 1254. The results of the original analysis are reported and are qualified with a "B" for any associated sample concentrations that are less than 5x the blank concentration for this analyte.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 09/02/11

ORGANICS

PCBS

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-01	Date Collected:	08/20/11 11:10
Client ID:	13L-AE-W15	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 07:19	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	592	--	12
Aroclor 1221	ND		ug/kg	592	--	12
Aroclor 1232	ND		ug/kg	592	--	12
Aroclor 1242	ND		ug/kg	592	--	12
Aroclor 1248	ND		ug/kg	395	--	12
Aroclor 1260	ND		ug/kg	395	--	12
Aroclor 1262	ND		ug/kg	197	--	12
Aroclor 1268	ND		ug/kg	197	--	12

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-01	Date Collected:	08/20/11 11:10
Client ID:	13L-AE-W15	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 07:19	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	4090		ug/kg	592	--	12

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-02	Date Collected:	08/20/11 11:20
Client ID:	13L-AE-W16	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 07:32	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1160	--	23
Aroclor 1221	ND		ug/kg	1160	--	23
Aroclor 1232	ND		ug/kg	1160	--	23
Aroclor 1242	ND		ug/kg	1160	--	23
Aroclor 1248	ND		ug/kg	776	--	23
Aroclor 1260	ND		ug/kg	776	--	23
Aroclor 1262	ND		ug/kg	388	--	23
Aroclor 1268	ND		ug/kg	388	--	23

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-02	Date Collected:	08/20/11 11:20
Client ID:	13L-AE-W16	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 07:32	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	6730		ug/kg	1160	--	23

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-03	Date Collected:	08/20/11 11:30
Client ID:	13L-AE-W17	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 07:46	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1280	--	24
Aroclor 1221	ND		ug/kg	1280	--	24
Aroclor 1232	ND		ug/kg	1280	--	24
Aroclor 1242	ND		ug/kg	1280	--	24
Aroclor 1248	ND		ug/kg	857	--	24
Aroclor 1260	ND		ug/kg	857	--	24
Aroclor 1262	ND		ug/kg	428	--	24
Aroclor 1268	ND		ug/kg	428	--	24

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-03	Date Collected:	08/20/11 11:30
Client ID:	13L-AE-W17	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 07:46	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	8100		ug/kg	1280	--	24

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-04	Date Collected:	08/20/11 11:40
Client ID:	13L-AE-W18	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 07:59	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	942	--	19
Aroclor 1221	ND		ug/kg	942	--	19
Aroclor 1232	ND		ug/kg	942	--	19
Aroclor 1242	ND		ug/kg	942	--	19
Aroclor 1248	ND		ug/kg	628	--	19
Aroclor 1260	ND		ug/kg	628	--	19
Aroclor 1262	ND		ug/kg	314	--	19
Aroclor 1268	ND		ug/kg	314	--	19

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-04	Date Collected:	08/20/11 11:40
Client ID:	13L-AE-W18	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 07:59	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	7090		ug/kg	942	--	19

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-05	Date Collected:	08/20/11 11:45
Client ID:	13L-AE-W19	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 08:12	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1210	--	22
Aroclor 1221	ND		ug/kg	1210	--	22
Aroclor 1232	ND		ug/kg	1210	--	22
Aroclor 1242	ND		ug/kg	1210	--	22
Aroclor 1248	ND		ug/kg	809	--	22
Aroclor 1260	ND		ug/kg	809	--	22
Aroclor 1262	ND		ug/kg	404	--	22
Aroclor 1268	ND		ug/kg	404	--	22

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-05	Date Collected:	08/20/11 11:45
Client ID:	13L-AE-W19	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 08:12	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	2240		ug/kg	1210	--	22

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-06	Date Collected:	08/20/11 11:55
Client ID:	13L-AE-W20	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 08:25	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1020	--	19
Aroclor 1221	ND		ug/kg	1020	--	19
Aroclor 1232	ND		ug/kg	1020	--	19
Aroclor 1242	ND		ug/kg	1020	--	19
Aroclor 1248	ND		ug/kg	678	--	19
Aroclor 1260	ND		ug/kg	678	--	19
Aroclor 1262	ND		ug/kg	339	--	19
Aroclor 1268	ND		ug/kg	339	--	19

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-06	Date Collected:	08/20/11 11:55
Client ID:	13L-AE-W20	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 08:25	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	1960		ug/kg	1020	--	19

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-07	Date Collected:	08/20/11 12:00
Client ID:	13L-AE-W21	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 08:38	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	747	--	14
Aroclor 1221	ND		ug/kg	747	--	14
Aroclor 1232	ND		ug/kg	747	--	14
Aroclor 1242	ND		ug/kg	747	--	14
Aroclor 1248	ND		ug/kg	498	--	14
Aroclor 1260	ND		ug/kg	498	--	14
Aroclor 1262	ND		ug/kg	249	--	14
Aroclor 1268	ND		ug/kg	249	--	14

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-07	Date Collected:	08/20/11 12:00
Client ID:	13L-AE-W21	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 08:38	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	6350		ug/kg	747	--	14

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-08	Date Collected:	08/20/11 12:05
Client ID:	13L-AE-W22	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 08:52	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	741	--	15
Aroclor 1221	ND		ug/kg	741	--	15
Aroclor 1232	ND		ug/kg	741	--	15
Aroclor 1242	ND		ug/kg	741	--	15
Aroclor 1248	ND		ug/kg	494	--	15
Aroclor 1260	ND		ug/kg	494	--	15
Aroclor 1262	ND		ug/kg	247	--	15
Aroclor 1268	ND		ug/kg	247	--	15

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-08	Date Collected:	08/20/11 12:05
Client ID:	13L-AE-W22	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 08:52	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	3700	P	ug/kg	741	--	15

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-09	Date Collected:	08/20/11 12:10
Client ID:	13L-AE-W23	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 09:05	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1200	--	23
Aroclor 1221	ND		ug/kg	1200	--	23
Aroclor 1232	ND		ug/kg	1200	--	23
Aroclor 1242	ND		ug/kg	1200	--	23
Aroclor 1248	ND		ug/kg	800	--	23
Aroclor 1260	ND		ug/kg	800	--	23
Aroclor 1262	ND		ug/kg	400	--	23
Aroclor 1268	ND		ug/kg	400	--	23

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-09	Date Collected:	08/20/11 12:10
Client ID:	13L-AE-W23	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 09:05	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	3660		ug/kg	1200	--	23

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-10	Date Collected:	08/20/11 12:20
Client ID:	13L-AE-W24	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 09:18	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	968	--	18
Aroclor 1221	ND		ug/kg	968	--	18
Aroclor 1232	ND		ug/kg	968	--	18
Aroclor 1242	ND		ug/kg	968	--	18
Aroclor 1248	ND		ug/kg	645	--	18
Aroclor 1260	ND		ug/kg	645	--	18
Aroclor 1262	ND		ug/kg	322	--	18
Aroclor 1268	ND		ug/kg	322	--	18

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-10	Date Collected:	08/20/11 12:20
Client ID:	13L-AE-W24	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 09:18	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	3240		ug/kg	968	--	18

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-11	Date Collected:	08/20/11 12:30
Client ID:	13L-AE-W25	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/30/11 11:30	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	782	--	14
Aroclor 1221	ND		ug/kg	782	--	14
Aroclor 1232	ND		ug/kg	782	--	14
Aroclor 1242	ND		ug/kg	782	--	14
Aroclor 1248	ND		ug/kg	521	--	14
Aroclor 1260	ND		ug/kg	521	--	14
Aroclor 1262	ND		ug/kg	261	--	14
Aroclor 1268	ND		ug/kg	261	--	14

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-11	Date Collected:	08/20/11 12:30
Client ID:	13L-AE-W25	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/30/11 11:30	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	3060		ug/kg	782	--	14

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-12	Date Collected:	08/20/11 12:35
Client ID:	13L-AE-W26	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 09:31	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	821	--	15
Aroclor 1221	ND		ug/kg	821	--	15
Aroclor 1232	ND		ug/kg	821	--	15
Aroclor 1242	ND		ug/kg	821	--	15
Aroclor 1248	ND		ug/kg	547	--	15
Aroclor 1260	ND		ug/kg	547	--	15
Aroclor 1262	ND		ug/kg	274	--	15
Aroclor 1268	ND		ug/kg	274	--	15

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-12	Date Collected:	08/20/11 12:35
Client ID:	13L-AE-W26	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 09:31	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	2390		ug/kg	821	--	15

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-13	Date Collected:	08/20/11 12:40
Client ID:	13L-AE-W27	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/31/11 11:07
Analytical Date:	09/01/11 17:01	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	09/01/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/01/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	975	--	17
Aroclor 1221	ND		ug/kg	975	--	17
Aroclor 1232	ND		ug/kg	975	--	17
Aroclor 1242	ND		ug/kg	975	--	17
Aroclor 1248	ND		ug/kg	650	--	17
Aroclor 1254	4600		ug/kg	975	--	17
Aroclor 1260	ND		ug/kg	650	--	17
Aroclor 1262	ND		ug/kg	325	--	17
Aroclor 1268	ND		ug/kg	325	--	17

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-14	Date Collected:	08/20/11 12:45
Client ID:	13L-AE-W28	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 09:45	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1140	--	22
Aroclor 1221	ND		ug/kg	1140	--	22
Aroclor 1232	ND		ug/kg	1140	--	22
Aroclor 1242	ND		ug/kg	1140	--	22
Aroclor 1248	ND		ug/kg	762	--	22
Aroclor 1260	ND		ug/kg	762	--	22
Aroclor 1262	ND		ug/kg	381	--	22
Aroclor 1268	ND		ug/kg	381	--	22

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-14	Date Collected:	08/20/11 12:45
Client ID:	13L-AE-W28	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 09:45	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	8950		ug/kg	1140	--	22

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-15	D	Date Collected:	08/20/11 12:50
Client ID:	13L-AE-W29		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 23:50
Analytical Date:	08/30/11 10:50		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	20200	--	400
Aroclor 1221	ND		ug/kg	20200	--	400
Aroclor 1232	ND		ug/kg	20200	--	400
Aroclor 1242	ND		ug/kg	20200	--	400
Aroclor 1248	ND		ug/kg	13500	--	400
Aroclor 1260	ND		ug/kg	13500	--	400
Aroclor 1262	ND		ug/kg	6730	--	400
Aroclor 1268	ND		ug/kg	6730	--	400

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-15	D	Date Collected:	08/20/11 12:50
Client ID:	13L-AE-W29		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 23:50
Analytical Date:	08/30/11 10:50		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	201000		ug/kg	20200	--	400

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-16	Date Collected:	08/20/11 12:55
Client ID:	13L-AE-W30	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 10:11	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	696	--	13
Aroclor 1221	ND		ug/kg	696	--	13
Aroclor 1232	ND		ug/kg	696	--	13
Aroclor 1242	ND		ug/kg	696	--	13
Aroclor 1248	ND		ug/kg	464	--	13
Aroclor 1260	ND		ug/kg	464	--	13
Aroclor 1262	ND		ug/kg	232	--	13
Aroclor 1268	ND		ug/kg	232	--	13

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-16	Date Collected:	08/20/11 12:55
Client ID:	13L-AE-W30	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 10:11	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	3780		ug/kg	696	--	13

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-17	D	Date Collected:	08/20/11 13:05
Client ID:	14L-LOUVER1		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 23:50
Analytical Date:	08/30/11 11:03		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	518	--	10
Aroclor 1221	ND		ug/kg	518	--	10
Aroclor 1232	ND		ug/kg	518	--	10
Aroclor 1242	ND		ug/kg	518	--	10
Aroclor 1248	ND		ug/kg	345	--	10
Aroclor 1254	ND		ug/kg	518	--	10
Aroclor 1260	ND		ug/kg	345	--	10
Aroclor 1262	ND		ug/kg	173	--	10
Aroclor 1268	ND		ug/kg	173	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-18	Date Collected:	08/20/11 13:15
Client ID:	13L-AE-D1	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 23:50
Analytical Date:	08/27/11 10:38	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	2580	--	18
Aroclor 1221	ND		ug/kg	2580	--	18
Aroclor 1232	ND		ug/kg	2580	--	18
Aroclor 1242	ND		ug/kg	2580	--	18
Aroclor 1248	ND		ug/kg	1720	--	18
Aroclor 1254	16200		ug/kg	2580	--	18
Aroclor 1260	ND		ug/kg	1720	--	18
Aroclor 1262	ND		ug/kg	861	--	18
Aroclor 1268	ND		ug/kg	861	--	18

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-19	D	Date Collected:	08/20/11 13:25
Client ID:	6L-DE-W1		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 15:19		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	17900	--	350
Aroclor 1221	ND		ug/kg	17900	--	350
Aroclor 1232	ND		ug/kg	17900	--	350
Aroclor 1242	ND		ug/kg	17900	--	350
Aroclor 1248	ND		ug/kg	11900	--	350
Aroclor 1260	ND		ug/kg	11900	--	350
Aroclor 1262	ND		ug/kg	5970	--	350
Aroclor 1268	ND		ug/kg	5970	--	350

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-19	D	Date Collected:	08/20/11 13:25
Client ID:	6L-DE-W1		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 15:19		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	193000		ug/kg	17900	--	350

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-20	D	Date Collected:	08/20/11 13:35
Client ID:	6L-CE-W1		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 15:33		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	24900	--	500
Aroclor 1221	ND		ug/kg	24900	--	500
Aroclor 1232	ND		ug/kg	24900	--	500
Aroclor 1242	ND		ug/kg	24900	--	500
Aroclor 1248	ND		ug/kg	16600	--	500
Aroclor 1260	ND		ug/kg	16600	--	500
Aroclor 1262	ND		ug/kg	8300	--	500
Aroclor 1268	ND		ug/kg	8300	--	500

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

SAMPLE RESULTS

Lab ID:	L1113019-20	D	Date Collected:	08/20/11 13:35
Client ID:	6L-CE-W1		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 15:33		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	386000		ug/kg	24900	--	500

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA

Project Number: 41062464

Lab Number: L1113019

Report Date: 09/02/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/27/11 10:51
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/24/11 23:50
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/27/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/27/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01-12,14-18 Batch: WG486341-1					
Aroclor 1016	ND		ug/kg	59.8	--
Aroclor 1221	ND		ug/kg	59.8	--
Aroclor 1232	ND		ug/kg	59.8	--
Aroclor 1242	ND		ug/kg	59.8	--
Aroclor 1248	ND		ug/kg	39.8	--
Aroclor 1254	ND		ug/kg	59.8	--
Aroclor 1260	ND		ug/kg	39.8	--
Aroclor 1262	ND		ug/kg	19.9	--
Aroclor 1268	ND		ug/kg	19.9	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	64		30-150
Decachlorobiphenyl	47		30-150
2,4,5,6-Tetrachloro-m-xylene	65		30-150
Decachlorobiphenyl	74		30-150

Project Name: IRS/GSA

Project Number: 41062464

Lab Number: L1113019

Report Date: 09/02/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/31/11 13:53
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/24/11 01:35
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/27/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/27/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 19-20 Batch: WG486348-1					
Aroclor 1016	ND		ug/kg	59.4	--
Aroclor 1221	ND		ug/kg	59.4	--
Aroclor 1232	ND		ug/kg	59.4	--
Aroclor 1242	ND		ug/kg	59.4	--
Aroclor 1248	ND		ug/kg	39.6	--
Aroclor 1260	ND		ug/kg	39.6	--
Aroclor 1262	ND		ug/kg	19.8	--
Aroclor 1268	ND		ug/kg	19.8	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	87		30-150
2,4,5,6-Tetrachloro-m-xylene	91		30-150
Decachlorobiphenyl	99		30-150

Project Name: IRS/GSA

Project Number: 41062464

Lab Number: L1113019

Report Date: 09/02/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/31/11 13:53
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/24/11 01:35
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/27/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/27/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 19-20 Batch: WG486348-1					
Aroclor 1254	245		ug/kg	59.4	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	87		30-150
2,4,5,6-Tetrachloro-m-xylene	91		30-150
Decachlorobiphenyl	99		30-150

Project Name: IRS/GSA

Project Number: 41062464

Lab Number: L1113019

Report Date: 09/02/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 09/01/11 17:51
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/31/11 11:07
Cleanup Method1: EPA 3665A
Cleanup Date1: 09/01/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 09/01/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 13 Batch: WG487762-1					
Aroclor 1016	ND		ug/kg	57.6	--
Aroclor 1221	ND		ug/kg	57.6	--
Aroclor 1232	ND		ug/kg	57.6	--
Aroclor 1242	ND		ug/kg	57.6	--
Aroclor 1248	ND		ug/kg	38.4	--
Aroclor 1254	ND		ug/kg	57.6	--
Aroclor 1260	ND		ug/kg	38.4	--
Aroclor 1262	ND		ug/kg	19.2	--
Aroclor 1268	ND		ug/kg	19.2	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	59		30-150
Decachlorobiphenyl	74		30-150
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	83		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: IRS/GSA
Project Number: 41062464

Lab Number: L1113019
Report Date: 09/02/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01-12,14-18 Batch: WG486341-2 WG486341-3								
Aroclor 1016	59		65		40-140	10		50
Aroclor 1260	52		58		40-140	11		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	60		63		30-150
Decachlorobiphenyl	44		75		30-150
2,4,5,6-Tetrachloro-m-xylene	60		64		30-150
Decachlorobiphenyl	62		80		30-150

PCB by GC - Westborough Lab Associated sample(s): 19-20 Batch: WG486348-2 WG486348-3								
Aroclor 1016	64		62		40-140	3		50
Aroclor 1260	55		67		40-140	20		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	57		60		30-150
Decachlorobiphenyl	44		47		30-150
2,4,5,6-Tetrachloro-m-xylene	62		65		30-150
Decachlorobiphenyl	62		65		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: IRS/GSA
Project Number: 41062464

Lab Number: L1113019
Report Date: 09/02/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 13 Batch: WG487762-2 WG487762-3								
Aroclor 1016	73		113		40-140	43		50
Aroclor 1260	52		74		40-140	35		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	45		53		30-150
Decachlorobiphenyl	57		69		30-150
2,4,5,6-Tetrachloro-m-xylene	64		65		30-150
Decachlorobiphenyl	73		81		30-150

Project Name: IRS/GSA
Project Number: 41062464

Lab Number: L1113019
Report Date: 09/02/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information	Custody Seal
Cooler	
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1113019-01A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-02A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-03A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-04A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-05A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-06A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-07A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-08A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-09A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-10A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-11A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-12A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-13A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-14A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-15A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-16A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-17A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-18A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-19A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113019-20A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)

*Values in parentheses indicate holding time in days

Project Name: IRS/GSA **Lab Number:** L1113019

Project Number: 41062464 **Report Date:** 09/02/11

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report

Project Name:	IRS/GSA	**Lab Number:**	L1113019
Project Number:	41062464	**Report Date:**	09/02/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: IRS/GSA **Lab Number:** L1113019
Project Number: 41062464 **Report Date:** 09/02/11

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B**,** 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 3 OF 6

Date Rec'd in Lab: 8/22/11

ALPHA Job #: L1113019

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: URS Corp
Address: 5 Industrial Way Salem, NH
Phone: 603-893-0616
Fax:
Email: Marilyn_Wade@urscorp.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: IRS/GSA
Project Location: Andover, MA
Project #: 41062464
Project Manager: Marilyn Wade
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 8/29/11 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All ***CAM*** methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: RCB

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	RCB	Sample Specific Comments	TOTAL # BOTTLES
3019 -01	13L-AE-W15	8/22/11	1110	XI-solid	WB/GF/DD	X		
-02	13L-AE-W16		1120					
-03	13L-AE-W17		1130					
-04	13L-AE-W18		1140					
-05	13L-AE-W19		1145					
-06	13L-AE-W20		1155					
-07	13L-AE-W21		1200					
-08	13L-AE-W22		1205					
-09	13L-AE-W23		1210					
-10	13L-AE-W24		1220					

Container Type: G
Preservative: A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	8/22/11	Leo Karon	8/22/11 1215
Leo Karon	8/22/11 1600	Eg[illegible]	8/22/11 1600

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

CHAIN OF CUSTODY

PAGE 4 OF 6

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/22/11

ALPHA Job #: L1113019

Client Information

Client: URS Corp

Address: 5 Industrial Way Salem, NH

Phone: 603-893-0616

Fax:

Email: marilyn_wade@urscorp.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: IRS/GSA

Project Location: Andover, MA

Project #: 41062464

Project Manager: Marilyn Wade

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 8/29/11 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All ***CAM*** methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: PCBs

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCBs	Sample Specific Comments	TOTAL # BOTTLES
3019 -11	13L-AE-W25	8/24/11	1230	X1-solid	WB/BF/DD	X		
-12	13L-AE-W26		1235					
-13	13L-AE-W27		1240					
-14	13L-AE-W28		1245					
-15	13L-AE-W29		1250					
-16	13L-AE-W30		1255					
-17	14L-Lower1		1305					
-18	13L-AE-D1		1315					
-19	6L-DE-W1		1325					
-20	6L-CE-W1		1335					

Container Type: G
Preservative: A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/22/11	[signature]	8/22/11 12[illegible]
[signature]	8/22/11 16[illegible]	[signature]	8/22/11 16[illegible]

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:09021116:40

ANALYTICAL REPORT

Lab Number:	L1113020
Client:	URS Corporation 5 Industrial Way Salem, NH 03079
ATTN:	Marilyn Wade
Phone:	(603) 893-0616
Project Name:	IRS/GSA
Project Number:	41062464
Report Date:	08/31/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: IRS/GSA
Project Number: 41062464

Lab Number: L1113020
Report Date: 08/31/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1113020-01	6L-B-W1	ANDOVER, MA	08/20/11 13:45
L1113020-02	6L-B-D1	ANDOVER, MA	08/20/11 13:55
L1113020-03	6L-BE-D1	ANDOVER, MA	08/20/11 14:00
L1113020-04	6L-B-W2	ANDOVER, MA	08/20/11 14:05
L1113020-05	10L-AE-D2	ANDOVER, MA	08/20/11 14:10
L1113020-06	12L-AE-D3	ANDOVER, MA	08/20/11 14:15
L1113020-07	DUP 1	ANDOVER, MA	08/20/11 14:25
L1113020-08	DUP 2	ANDOVER, MA	08/20/11 14:35
L1113020-09	DUP 3	ANDOVER, MA	08/20/11 14:40
L1113020-10	DUP 4	ANDOVER, MA	08/20/11 14:45
L1113020-11	DUP 5	ANDOVER, MA	08/20/11 14:50
L1113020-12	DUP 6	ANDOVER, MA	08/20/11 14:55
L1113020-13	DUP 7	ANDOVER, MA	08/20/11 15:00

Project Name: IRS/GSA
Project Number: 41062464

Lab Number: L1113020
Report Date: 08/31/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

PCB

L1113020-01 through -05 and -08 have elevated detection limits due to the dilutions required by the matrix interferences encountered during the concentration of the samples and the analytical dilutions required by the target compounds present in the samples.

L1113020-03, -05 and -10 through -13 have elevated detection limits due to limited sample volume available for analysis.

L1113020-06, -07 and -10 through -13 have elevated detection limits due to the dilutions required by matrix interferences encountered during the concentration of the samples.

L1113020-09 has elevated detection limits due to the dilution required by the sample matrix.

L1113020-03 contains peaks which match the retention times for Aroclor 1254, but do not match the area ratios typical for this aroclor. The result for Aroclor 1254 is reported as "altered".

The surrogate recoveries for L1113020-01 through -10 and -12 are below the acceptance criteria for 2,4,5,6-

Project Name: IRS/GSA
Project Number: 41062464

Lab Number: L1113020
Report Date: 08/31/11

Case Narrative (continued)

Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

The WG486348-1 Method Blank, associated with L1113020-01 through -13, has a concentration above the reporting limit for Aroclor 1254. The results of the original analysis are reported and are qualified with a "B" for any associated sample concentrations that are less than 5x the blank concentration for this analyte.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative

Date: 08/31/11

ORGANICS

PCBS

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-01	D	Date Collected:	08/20/11 13:45
Client ID:	6L-B-W1		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 01:35
Analytical Date:	08/31/11 13:05		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	12100000	--	250000
Aroclor 1221	ND		ug/kg	12100000	--	250000
Aroclor 1232	ND		ug/kg	12100000	--	250000
Aroclor 1242	ND		ug/kg	12100000	--	250000
Aroclor 1248	ND		ug/kg	8060000	--	250000
Aroclor 1260	ND		ug/kg	8060000	--	250000
Aroclor 1262	ND		ug/kg	4030000	--	250000
Aroclor 1268	ND		ug/kg	4030000	--	250000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-01	D	Date Collected:	08/20/11 13:45
Client ID:	6L-B-W1		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 01:35
Analytical Date:	08/31/11 13:05		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	211000000		ug/kg	12100000	--	250000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-02	D	Date Collected:	08/20/11 13:55
Client ID:	6L-B-D1		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 16:11		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1560	--	30
Aroclor 1221	ND		ug/kg	1560	--	30
Aroclor 1232	ND		ug/kg	1560	--	30
Aroclor 1242	ND		ug/kg	1560	--	30
Aroclor 1248	ND		ug/kg	1040	--	30
Aroclor 1260	ND		ug/kg	1040	--	30
Aroclor 1262	ND		ug/kg	522	--	30
Aroclor 1268	ND		ug/kg	522	--	30

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-02	D	Date Collected:	08/20/11 13:55
Client ID:	6L-B-D1		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 16:11		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	19500		ug/kg	1560	--	30

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-03	D	Date Collected:	08/20/11 14:00
Client ID:	6L-BE-D1		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 16:25		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	10500	--	50
Aroclor 1221	ND		ug/kg	10500	--	50
Aroclor 1232	ND		ug/kg	10500	--	50
Aroclor 1242	ND		ug/kg	10500	--	50
Aroclor 1248	ND		ug/kg	6990	--	50
Aroclor 1254	87900		ug/kg	10500	--	50
Aroclor 1260	ND		ug/kg	6990	--	50
Aroclor 1262	ND		ug/kg	3500	--	50
Aroclor 1268	ND		ug/kg	3500	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-04	D	Date Collected:	08/20/11 14:05
Client ID:	6L-B-W2		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 01:35
Analytical Date:	08/31/11 13:21		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	14400000	--	250000
Aroclor 1221	ND		ug/kg	14400000	--	250000
Aroclor 1232	ND		ug/kg	14400000	--	250000
Aroclor 1242	ND		ug/kg	14400000	--	250000
Aroclor 1248	ND		ug/kg	9600000	--	250000
Aroclor 1260	ND		ug/kg	9600000	--	250000
Aroclor 1262	ND		ug/kg	4800000	--	250000
Aroclor 1268	ND		ug/kg	4800000	--	250000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-04	D	Date Collected:	08/20/11 14:05
Client ID:	6L-B-W2		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 01:35
Analytical Date:	08/31/11 13:21		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	198000000		ug/kg	14400000	--	250000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-05	D	Date Collected:	08/20/11 14:10
Client ID:	10L-AE-D2		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 16:51		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	2870	--	25
Aroclor 1221	ND		ug/kg	2870	--	25
Aroclor 1232	ND		ug/kg	2870	--	25
Aroclor 1242	ND		ug/kg	2870	--	25
Aroclor 1248	ND		ug/kg	1920	--	25
Aroclor 1260	ND		ug/kg	1920	--	25
Aroclor 1262	ND		ug/kg	958	--	25
Aroclor 1268	ND		ug/kg	958	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-05	D	Date Collected:	08/20/11 14:10
Client ID:	10L-AE-D2		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 16:51		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	14600		ug/kg	2870	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-06	Date Collected:	08/20/11 14:15
Client ID:	12L-AE-D3	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 19:04	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	679	--	10
Aroclor 1221	ND		ug/kg	679	--	10
Aroclor 1232	ND		ug/kg	679	--	10
Aroclor 1242	ND		ug/kg	679	--	10
Aroclor 1248	ND		ug/kg	452	--	10
Aroclor 1260	ND		ug/kg	452	--	10
Aroclor 1262	ND		ug/kg	226	--	10
Aroclor 1268	ND		ug/kg	226	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-06	Date Collected:	08/20/11 14:15
Client ID:	12L-AE-D3	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 19:04	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	4760		ug/kg	679	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-07	Date Collected:	08/20/11 14:25
Client ID:	DUP 1	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 18:50	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	523	--	10
Aroclor 1221	ND		ug/kg	523	--	10
Aroclor 1232	ND		ug/kg	523	--	10
Aroclor 1242	ND		ug/kg	523	--	10
Aroclor 1248	ND		ug/kg	348	--	10
Aroclor 1260	ND		ug/kg	348	--	10
Aroclor 1262	ND		ug/kg	174	--	10
Aroclor 1268	ND		ug/kg	174	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-07	Date Collected:	08/20/11 14:25
Client ID:	DUP 1	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 18:50	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	3460		ug/kg	523	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-08	D	Date Collected:	08/20/11 14:35
Client ID:	DUP 2		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 01:35
Analytical Date:	08/31/11 13:37		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	198000	--	4000
Aroclor 1221	ND		ug/kg	198000	--	4000
Aroclor 1232	ND		ug/kg	198000	--	4000
Aroclor 1242	ND		ug/kg	198000	--	4000
Aroclor 1248	ND		ug/kg	132000	--	4000
Aroclor 1260	ND		ug/kg	132000	--	4000
Aroclor 1262	ND		ug/kg	66100	--	4000
Aroclor 1268	ND		ug/kg	66100	--	4000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-08	D	Date Collected:	08/20/11 14:35
Client ID:	DUP 2		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 01:35
Analytical Date:	08/31/11 13:37		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	1770000		ug/kg	198000	--	400

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-09	D	Date Collected:	08/20/11 14:40
Client ID:	DUP 3		Date Received:	08/22/11
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/24/11 01:35
Analytical Date:	08/31/11 11:45		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	2590	--	50
Aroclor 1221	ND		ug/kg	2590	--	50
Aroclor 1232	ND		ug/kg	2590	--	50
Aroclor 1242	ND		ug/kg	2590	--	50
Aroclor 1248	ND		ug/kg	1720	--	50
Aroclor 1254	ND		ug/kg	2590	--	50
Aroclor 1260	ND		ug/kg	1720	--	50
Aroclor 1262	ND		ug/kg	862	--	50
Aroclor 1268	ND		ug/kg	862	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-10	Date Collected:	08/20/11 14:45
Client ID:	DUP 4	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 18:37	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1310	--	10
Aroclor 1221	ND		ug/kg	1310	--	10
Aroclor 1232	ND		ug/kg	1310	--	10
Aroclor 1242	ND		ug/kg	1310	--	10
Aroclor 1248	ND		ug/kg	873	--	10
Aroclor 1260	ND		ug/kg	873	--	10
Aroclor 1262	ND		ug/kg	437	--	10
Aroclor 1268	ND		ug/kg	437	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-10	Date Collected:	08/20/11 14:45
Client ID:	DUP 4	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 18:37	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	2550		ug/kg	1310	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-11	Date Collected:	08/20/11 14:50
Client ID:	DUP 5	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/31/11 11:13	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1470	--	5
Aroclor 1221	ND		ug/kg	1470	--	5
Aroclor 1232	ND		ug/kg	1470	--	5
Aroclor 1242	ND		ug/kg	1470	--	5
Aroclor 1248	ND		ug/kg	980	--	5
Aroclor 1260	ND		ug/kg	980	--	5
Aroclor 1262	ND		ug/kg	490	--	5
Aroclor 1268	ND		ug/kg	490	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	59		30-150
Decachlorobiphenyl	42		30-150
2,4,5,6-Tetrachloro-m-xylene	64		30-150
Decachlorobiphenyl	48		30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-11	Date Collected:	08/20/11 14:50
Client ID:	DUP 5	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/31/11 11:13	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	11600		ug/kg	1470	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	59		30-150
Decachlorobiphenyl	42		30-150
2,4,5,6-Tetrachloro-m-xylene	64		30-150
Decachlorobiphenyl	48		30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-12	Date Collected:	08/20/11 14:55
Client ID:	DUP 6	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 18:24	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	2460	--	10
Aroclor 1221	ND		ug/kg	2460	--	10
Aroclor 1232	ND		ug/kg	2460	--	10
Aroclor 1242	ND		ug/kg	2460	--	10
Aroclor 1248	ND		ug/kg	1640	--	10
Aroclor 1260	ND		ug/kg	1640	--	10
Aroclor 1262	ND		ug/kg	820	--	10
Aroclor 1268	ND		ug/kg	820	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-12	Date Collected:	08/20/11 14:55
Client ID:	DUP 6	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 18:24	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	6470		ug/kg	2460	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-13	Date Collected:	08/20/11 15:00
Client ID:	DUP 7	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 18:11	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	2000	--	5
Aroclor 1221	ND		ug/kg	2000	--	5
Aroclor 1232	ND		ug/kg	2000	--	5
Aroclor 1242	ND		ug/kg	2000	--	5
Aroclor 1248	ND		ug/kg	1330	--	5
Aroclor 1260	ND		ug/kg	1330	--	5
Aroclor 1262	ND		ug/kg	667	--	5
Aroclor 1268	ND		ug/kg	667	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	41		30-150
Decachlorobiphenyl	31		30-150
2,4,5,6-Tetrachloro-m-xylene	42		30-150
Decachlorobiphenyl	44		30-150

Project Name: IRS/GSA **Lab Number:** L1113020

Project Number: 41062464 **Report Date:** 08/31/11

SAMPLE RESULTS

Lab ID:	L1113020-13	Date Collected:	08/20/11 15:00
Client ID:	DUP 7	Date Received:	08/22/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 18:11	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	13300		ug/kg	2000	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	41		30-150
Decachlorobiphenyl	31		30-150
2,4,5,6-Tetrachloro-m-xylene	42		30-150
Decachlorobiphenyl	44		30-150

Project Name: IRS/GSA

Project Number: 41062464

Lab Number: L1113020

Report Date: 08/31/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/31/11 13:53
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/24/11 01:35
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/27/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/27/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01-13 Batch: WG486348-1					
Aroclor 1016	ND		ug/kg	59.4	--
Aroclor 1221	ND		ug/kg	59.4	--
Aroclor 1232	ND		ug/kg	59.4	--
Aroclor 1242	ND		ug/kg	59.4	--
Aroclor 1248	ND		ug/kg	39.6	--
Aroclor 1260	ND		ug/kg	39.6	--
Aroclor 1262	ND		ug/kg	19.8	--
Aroclor 1268	ND		ug/kg	19.8	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	87		30-150
2,4,5,6-Tetrachloro-m-xylene	91		30-150
Decachlorobiphenyl	99		30-150

Project Name: IRS/GSA

Project Number: 41062464

Lab Number: L1113020

Report Date: 08/31/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/31/11 13:53
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/24/11 01:35
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/27/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/27/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01-13 Batch: WG486348-1					
Aroclor 1254	245		ug/kg	59.4	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	87		30-150
2,4,5,6-Tetrachloro-m-xylene	91		30-150
Decachlorobiphenyl	99		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: IRS/GSA
Project Number: 41062464

Lab Number: L1113020
Report Date: 08/31/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01-13 Batch: WG486348-2 WG486348-3								
Aroclor 1016	64		62		40-140	3		50
Aroclor 1260	55		67		40-140	20		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	57		60		30-150
Decachlorobiphenyl	44		47		30-150
2,4,5,6-Tetrachloro-m-xylene	62		65		30-150
Decachlorobiphenyl	62		65		30-150

Project Name: IRS/GSA
Project Number: 41062464

Lab Number: L1113020
Report Date: 08/31/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1113020-01A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113020-02A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113020-03A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113020-04A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113020-05A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113020-06A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113020-07A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113020-08A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113020-09A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113020-10A	Amber 120ml unpreserved	B	N/A	3.2	Y	Absent	PCB-8082LL-3540C(14)
L1113020-11A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113020-12A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113020-13A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)

Container Comments

L1113020-09A

*Values in parentheses indicate holding time in days

Project Name:	IRS/GSA	**Lab Number:**	L1113020
Project Number:	41062464	**Report Date:**	08/31/11

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Project Name:	IRS/GSA	**Lab Number:**	L1113020
Project Number:	41062464	**Report Date:**	08/31/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: IRS/GSA **Lab Number:** L1113020
Project Number: 41062464 **Report Date:** 08/31/11

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B**,** 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 5 OF 6

Date Rec'd in Lab: 8/22/11

ALPHA Job #: L1113020

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Serial_No:08311120:51

Client Information

Client: URS Corp
Address: 5 Industrial Way
Salem, NH
Phone: 603-893-6666
Fax:
Email: marilyn_wade@urscorp.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: IRS / GSA
Project Location: Andover, MA
Project #: 41062464
Project Manager: Marilyn Wade
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 8/29/11 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: PCBs

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCBs	Sample Specific Comments	Total # Bottles
3020-01	6L-B-W1	8/20/11	1345	XI-soil/d	WB/BF/DD	X		
-02	6L-B-D1		1355					
-03	6L-BE-D1		1400					
-04	6L-B-W2		1405					
-05	10L-AE-D2		1410					
-06	12L-AE-D3		1415					
-07	Dup 1		1425					
-08	Dup 2		1435					
-09	Dup 3		1440					
-10	Dup 4		1445					

Container Type: G
Preservative: A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	8/22/11	[illegible]	8/22/11 1[illegible]
[illegible]	8/22/11 1600	[illegible]	8/22/11 1600

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

CHAIN OF CUSTODY

PAGE 6 OF 6

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/22/11

ALPHA Job #: L1113020

Client Information

Client: URS Corp

Address: 5 Industrial Way Salem, NH

Phone: 603-893-0616

Fax:

Email: marilyn_wade@urscorp.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: MDS/GSA

Project Location: Andover, MA

Project #: 41062464

Project Manager: Marilyn Wade

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 8/29/11 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All ***CAM*** methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: PCBs

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCBs	Sample Specific Comments	Total # Bottles
3020-11	Dup 5	8/20/11	1450	X1-Solid	WB/BF/DD	X		
-12	Dup 6		1455					
-13	Dup 7		1500					

Container Type: G

Preservative: K

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/22/11	[signature]	8/22/11 1015
[signature]	8/22/11 1600	[signature]	8/22/11 1600

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:08311120:51

ANALYTICAL REPORT

Lab Number:	L1113022
Client:	URS Corporation 5 Industrial Way Salem, NH 03079
ATTN:	Thomas Lazott
Phone:	(603) 893-0616
Project Name:	IRS-GSA
Project Number:	41062464.01
Report Date:	09/01/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: IRS-GSA
Project Number: 41062464.01

Lab Number: L1113022
Report Date: 09/01/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1113022-01	IN-D11-MR	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-02	IN-D12-ER	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-03	IN-D13-WE	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-04	IN-D14-DB	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-05	IN-D15-UR	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-06	IN-D16-CC	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-07	IN-D17-CR5	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-08	IN-D18-LD	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-09	IN-W1-MDF-5	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-10	IN-W2-MDF-5	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-11	IN-D1-LD	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-12	IN-D2-LD	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-13	IN-D3-LD	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-14	IN-D4-FC	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-15	IN-D5-ME	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-16	IN-D6-MR	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-17	IN-D7-WR	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-18	IN-D8-MC	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-19	IN-D9-PHL	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00
L1113022-20	IN-D10-WES	310 LOWELL ST, ANDOVER, MA	08/20/11 11:00

Project Name: IRS-GSA **Lab Number:** L1113022
Project Number: 41062464.01 **Report Date:** 09/01/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

This final report replaces the partial report issued August 31, 2011 and includes the results of all requested analyses.

PCB

L1113022-01 through -20 have elevated detection limits due to limited sample volumes available for analysis.
L1113022-01, -05 and -14 have elevated detection limits due to the dilutions required by the matrix interferences encountered during the concentration of the samples and the analytical dilutions required by the target compounds present in the samples.
L1113022-02, -03, -04 and -06 have elevated detection limits due to the dilutions required by matrix interferences encountered during the concentration of the samples.
L1113022-06, -09, -14 and -18 contain peaks which match the retention times for Aroclor 1254, but do not

Project Name: IRS-GSA **Lab Number:** L1113022
Project Number: 41062464.01 **Report Date:** 09/01/11

Case Narrative (continued)

match the area ratios typical for this Aroclor. The results for Aroclor 1254 are reported as "altered".
The surrogate recoveries for L1113022-04, -05, -09, -14, -19 and -20 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.
The surrogate recoveries for the following samples were outside the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl; however, re-extraction could not be performed due to lack of additional sample. The results of the original analysis are reported:
L1113022-08: 6%/7% and 5%/4%
L1113022-10: 18%/23% and 20%/24%
L1113022-13: 21%/21% and 22%/17%
L1113022-09, -10, -18 and -19 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.
L1113022-15: The internal standard (IS) response for 1-Bromo-2-nitrobenzene was above the acceptance criteria on the confirmation column; however, the sample was not re-analyzed due to obvious interferences. A copy of the chromatogram is included as an attachment to this report. The dual column RPD for L1113022-15 is above the acceptance criteria for Aroclor 1254. The results from the primary column are reported and qualified with a "P". Also, the surrogate recoveries for L1113302-15 are outside the individual acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene (13%) and Decachlorobiphenyl (5%) on the confirmation column due to the high internal standard response.
The dual column RPDs for L1113022-16 and -17 are above the acceptance criteria for Aroclor 1248; however, no obvious column interferences are present. The higher of the two results is reported and qualified with a "P".
L1113022-20 has elevated detection limits due to the dilution required by the sample matrix.
L1113022-20: The internal standard (IS) response for 1-Bromo-2-nitrobenzene was below the acceptance criteria on the confirmation column; however, the sample was not re-analyzed due to obvious interferences. A copy of the chromatogram is included as an attachment to this report.
The WG486348-1 Method Blank, associated with L1113022-01 through -05, has a concentration above the reporting limit for Aroclor 1254. The results of the original analysis are reported and are qualified with a "B" for any associated sample concentrations that are less than 5x the blank concentration for this analyte.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 09/01/11

ORGANICS

PCBS

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-01 D	Date Collected:	08/20/11 11:00
Client ID:	IN-D11-MR	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 17:18	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	4690	--	25
Aroclor 1221	ND		ug/kg	4690	--	25
Aroclor 1232	ND		ug/kg	4690	--	25
Aroclor 1242	ND		ug/kg	4690	--	25
Aroclor 1248	ND		ug/kg	3120	--	25
Aroclor 1260	ND		ug/kg	3120	--	25
Aroclor 1262	ND		ug/kg	1560	--	25
Aroclor 1268	ND		ug/kg	1560	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	95		30-150
Decachlorobiphenyl	85		30-150
2,4,5,6-Tetrachloro-m-xylene	86		30-150
Decachlorobiphenyl	113		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-01 D	Date Collected:	08/20/11 11:00
Client ID:	IN-D11-MR	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 17:18	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	42900		ug/kg	4690	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	95		30-150
Decachlorobiphenyl	85		30-150
2,4,5,6-Tetrachloro-m-xylene	86		30-150
Decachlorobiphenyl	113		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-02	Date Collected:	08/20/11 11:00
Client ID:	IN-D12-ER	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 17:57	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1180	--	5
Aroclor 1221	ND		ug/kg	1180	--	5
Aroclor 1232	ND		ug/kg	1180	--	5
Aroclor 1242	ND		ug/kg	1180	--	5
Aroclor 1248	ND		ug/kg	787	--	5
Aroclor 1260	ND		ug/kg	787	--	5
Aroclor 1262	ND		ug/kg	394	--	5
Aroclor 1268	ND		ug/kg	394	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	55		30-150
Decachlorobiphenyl	44		30-150
2,4,5,6-Tetrachloro-m-xylene	62		30-150
Decachlorobiphenyl	71		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-02	Date Collected:	08/20/11 11:00
Client ID:	IN-D12-ER	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 17:57	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	28000		ug/kg	1180	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	55		30-150
Decachlorobiphenyl	44		30-150
2,4,5,6-Tetrachloro-m-xylene	62		30-150
Decachlorobiphenyl	71		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-03	Date Collected:	08/20/11 11:00
Client ID:	IN-D13-WE	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 17:44	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	838	--	5
Aroclor 1221	ND		ug/kg	838	--	5
Aroclor 1232	ND		ug/kg	838	--	5
Aroclor 1242	ND		ug/kg	838	--	5
Aroclor 1248	ND		ug/kg	559	--	5
Aroclor 1260	ND		ug/kg	559	--	5
Aroclor 1262	ND		ug/kg	279	--	5
Aroclor 1268	ND		ug/kg	279	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	82		30-150
Decachlorobiphenyl	65		30-150
2,4,5,6-Tetrachloro-m-xylene	88		30-150
Decachlorobiphenyl	95		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-03	Date Collected:	08/20/11 11:00
Client ID:	IN-D13-WE	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 17:44	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	10600		ug/kg	838	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	82		30-150
Decachlorobiphenyl	65		30-150
2,4,5,6-Tetrachloro-m-xylene	88		30-150
Decachlorobiphenyl	95		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-04	Date Collected:	08/20/11 11:00
Client ID:	IN-D14-DB	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/31/11 11:29	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	3190	--	10
Aroclor 1221	ND		ug/kg	3190	--	10
Aroclor 1232	ND		ug/kg	3190	--	10
Aroclor 1242	ND		ug/kg	3190	--	10
Aroclor 1248	ND		ug/kg	2130	--	10
Aroclor 1260	ND		ug/kg	2130	--	10
Aroclor 1262	ND		ug/kg	1060	--	10
Aroclor 1268	ND		ug/kg	1060	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-04	Date Collected:	08/20/11 11:00
Client ID:	IN-D14-DB	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/31/11 11:29	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	8820		ug/kg	3190	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-05 D	Date Collected:	08/20/11 11:00
Client ID:	IN-D15-UR	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 17:31	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	4240	--	25
Aroclor 1221	ND		ug/kg	4240	--	25
Aroclor 1232	ND		ug/kg	4240	--	25
Aroclor 1242	ND		ug/kg	4240	--	25
Aroclor 1248	ND		ug/kg	2820	--	25
Aroclor 1260	ND		ug/kg	2820	--	25
Aroclor 1262	ND		ug/kg	1410	--	25
Aroclor 1268	ND		ug/kg	1410	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-05 D	Date Collected:	08/20/11 11:00
Client ID:	IN-D15-UR	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/24/11 01:35
Analytical Date:	08/30/11 17:31	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	45900		ug/kg	4240	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-06	Date Collected:	08/20/11 11:00
Client ID:	IN-D16-CC	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	08/27/11 11:05	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1880	--	2
Aroclor 1221	ND		ug/kg	1880	--	2
Aroclor 1232	ND		ug/kg	1880	--	2
Aroclor 1242	ND		ug/kg	1880	--	2
Aroclor 1248	ND		ug/kg	1250	--	2
Aroclor 1260	ND		ug/kg	1250	--	2
Aroclor 1262	ND		ug/kg	625	--	2
Aroclor 1268	ND		ug/kg	625	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	52		30-150
Decachlorobiphenyl	64		30-150
2,4,5,6-Tetrachloro-m-xylene	47		30-150
Decachlorobiphenyl	46		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-06	Date Collected:	08/20/11 11:00
Client ID:	IN-D16-CC	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	08/27/11 11:05	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	5170		ug/kg	1880	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	52		30-150
Decachlorobiphenyl	64		30-150
2,4,5,6-Tetrachloro-m-xylene	47		30-150
Decachlorobiphenyl	46		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-07	Date Collected:	08/20/11 11:00
Client ID:	IN-D17-CR5	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	08/27/11 11:17	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	811	--	1
Aroclor 1221	ND		ug/kg	811	--	1
Aroclor 1232	ND		ug/kg	811	--	1
Aroclor 1242	ND		ug/kg	811	--	1
Aroclor 1248	ND		ug/kg	540	--	1
Aroclor 1260	ND		ug/kg	540	--	1
Aroclor 1262	ND		ug/kg	270	--	1
Aroclor 1268	ND		ug/kg	270	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	51		30-150
Decachlorobiphenyl	60		30-150
2,4,5,6-Tetrachloro-m-xylene	52		30-150
Decachlorobiphenyl	54		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-07	Date Collected:	08/20/11 11:00
Client ID:	IN-D17-CR5	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	08/27/11 11:17	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	3040		ug/kg	811	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	51		30-150
Decachlorobiphenyl	60		30-150
2,4,5,6-Tetrachloro-m-xylene	52		30-150
Decachlorobiphenyl	54		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-08	Date Collected:	08/20/11 11:00
Client ID:	IN-D18-LD	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	08/27/11 11:30	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	151	--	1
Aroclor 1221	ND		ug/kg	151	--	1
Aroclor 1232	ND		ug/kg	151	--	1
Aroclor 1242	ND		ug/kg	151	--	1
Aroclor 1248	ND		ug/kg	100	--	1
Aroclor 1254	733		ug/kg	151	--	1
Aroclor 1260	ND		ug/kg	100	--	1
Aroclor 1262	ND		ug/kg	50.2	--	1
Aroclor 1268	ND		ug/kg	50.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**6**	Q	30-150
Decachlorobiphenyl	**5**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**7**	Q	30-150
Decachlorobiphenyl	**4**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-09 D	Date Collected:	08/20/11 11:00
Client ID:	IN-W1-MDF-5	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	09/01/11 10:09	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1060	--	10
Aroclor 1221	ND		ug/kg	1060	--	10
Aroclor 1232	ND		ug/kg	1060	--	10
Aroclor 1242	ND		ug/kg	1060	--	10
Aroclor 1248	ND		ug/kg	707	--	10
Aroclor 1260	ND		ug/kg	707	--	10
Aroclor 1262	ND		ug/kg	353	--	10
Aroclor 1268	ND		ug/kg	353	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-09 D	Date Collected:	08/20/11 11:00
Client ID:	IN-W1-MDF-5	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	09/01/11 10:09	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	6040		ug/kg	1060	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-10 D	Date Collected:	08/20/11 11:00
Client ID:	IN-W2-MDF-5	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	09/01/11 10:25	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1100	--	5
Aroclor 1221	ND		ug/kg	1100	--	5
Aroclor 1232	ND		ug/kg	1100	--	5
Aroclor 1242	ND		ug/kg	1100	--	5
Aroclor 1248	ND		ug/kg	735	--	5
Aroclor 1260	ND		ug/kg	735	--	5
Aroclor 1262	ND		ug/kg	368	--	5
Aroclor 1268	ND		ug/kg	368	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**18**	Q	30-150
Decachlorobiphenyl	**20**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**23**	Q	30-150
Decachlorobiphenyl	**24**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-10 D	Date Collected:	08/20/11 11:00
Client ID:	IN-W2-MDF-5	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	09/01/11 10:25	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	6180		ug/kg	1100	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**18**	Q	30-150
Decachlorobiphenyl	**20**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**23**	Q	30-150
Decachlorobiphenyl	**24**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-11	Date Collected:	08/20/11 11:00
Client ID:	IN-D1-LD	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	08/27/11 10:53	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	588	--	1
Aroclor 1221	ND		ug/kg	588	--	1
Aroclor 1232	ND		ug/kg	588	--	1
Aroclor 1242	ND		ug/kg	588	--	1
Aroclor 1260	ND		ug/kg	392	--	1
Aroclor 1262	ND		ug/kg	196	--	1
Aroclor 1268	ND		ug/kg	196	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	91		30-150
2,4,5,6-Tetrachloro-m-xylene	54		30-150
Decachlorobiphenyl	72		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-11	Date Collected:	08/20/11 11:00
Client ID:	IN-D1-LD	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	08/27/11 10:53	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1248	9850		ug/kg	392	--	1
Aroclor 1254	5350		ug/kg	588	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	91		30-150
2,4,5,6-Tetrachloro-m-xylene	54		30-150
Decachlorobiphenyl	72		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-12	Date Collected:	08/20/11 11:00
Client ID:	IN-D2-LD	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	08/27/11 12:07	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	316	--	1
Aroclor 1221	ND		ug/kg	316	--	1
Aroclor 1232	ND		ug/kg	316	--	1
Aroclor 1242	ND		ug/kg	316	--	1
Aroclor 1248	6030		ug/kg	210	--	1
Aroclor 1254	5340		ug/kg	316	--	1
Aroclor 1260	ND		ug/kg	210	--	1
Aroclor 1262	ND		ug/kg	105	--	1
Aroclor 1268	ND		ug/kg	105	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	45		30-150
Decachlorobiphenyl	48		30-150
2,4,5,6-Tetrachloro-m-xylene	42		30-150
Decachlorobiphenyl	43		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-13	Date Collected:	08/20/11 11:00
Client ID:	IN-D3-LD	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	08/27/11 12:19	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	370	--	1
Aroclor 1221	ND		ug/kg	370	--	1
Aroclor 1232	ND		ug/kg	370	--	1
Aroclor 1242	ND		ug/kg	370	--	1
Aroclor 1248	ND		ug/kg	247	--	1
Aroclor 1260	ND		ug/kg	247	--	1
Aroclor 1262	ND		ug/kg	123	--	1
Aroclor 1268	ND		ug/kg	123	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**21**	Q	30-150
Decachlorobiphenyl	**22**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**21**	Q	30-150
Decachlorobiphenyl	**17**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-13	Date Collected:	08/20/11 11:00
Client ID:	IN-D3-LD	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	08/27/11 12:19	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	4780		ug/kg	370	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**21**	Q	30-150
Decachlorobiphenyl	**22**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**21**	Q	30-150
Decachlorobiphenyl	**17**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-14 D	Date Collected:	08/20/11 11:00
Client ID:	IN-D4-FC	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	08/31/11 12:01	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	4220	--	10
Aroclor 1221	ND		ug/kg	4220	--	10
Aroclor 1232	ND		ug/kg	4220	--	10
Aroclor 1242	ND		ug/kg	4220	--	10
Aroclor 1248	ND		ug/kg	2820	--	10
Aroclor 1260	ND		ug/kg	2820	--	10
Aroclor 1262	ND		ug/kg	1410	--	10
Aroclor 1268	ND		ug/kg	1410	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-14 D	Date Collected:	08/20/11 11:00
Client ID:	IN-D4-FC	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	08/31/11 12:01	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	28000		ug/kg	4220	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-15	Date Collected:	08/20/11 11:00
Client ID:	IN-D5-ME	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	08/27/11 12:43	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	152	--	1
Aroclor 1221	ND		ug/kg	152	--	1
Aroclor 1232	ND		ug/kg	152	--	1
Aroclor 1242	ND		ug/kg	152	--	1
Aroclor 1248	ND		ug/kg	102	--	1
Aroclor 1254	1440	P	ug/kg	152	--	1
Aroclor 1260	ND		ug/kg	102	--	1
Aroclor 1262	ND		ug/kg	50.8	--	1
Aroclor 1268	ND		ug/kg	50.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	58		30-150
Decachlorobiphenyl	58		30-150
2,4,5,6-Tetrachloro-m-xylene	**13**	Q	30-150
Decachlorobiphenyl	**5**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-16	Date Collected:	08/20/11 11:00
Client ID:	IN-D6-MR	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	08/27/11 12:56	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	252	--	1
Aroclor 1221	ND		ug/kg	252	--	1
Aroclor 1232	ND		ug/kg	252	--	1
Aroclor 1242	ND		ug/kg	252	--	1
Aroclor 1248	5900	P	ug/kg	168	--	1
Aroclor 1254	6380		ug/kg	252	--	1
Aroclor 1260	ND		ug/kg	168	--	1
Aroclor 1262	ND		ug/kg	84.0	--	1
Aroclor 1268	ND		ug/kg	84.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	68		30-150
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	56		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-17	Date Collected:	08/20/11 11:00
Client ID:	IN-D7-WR	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 00:59
Analytical Date:	08/27/11 13:08	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	789	--	1
Aroclor 1221	ND		ug/kg	789	--	1
Aroclor 1232	ND		ug/kg	789	--	1
Aroclor 1242	ND		ug/kg	789	--	1
Aroclor 1248	6480	P	ug/kg	526	--	1
Aroclor 1254	5860		ug/kg	789	--	1
Aroclor 1260	ND		ug/kg	526	--	1
Aroclor 1262	ND		ug/kg	263	--	1
Aroclor 1268	ND		ug/kg	263	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	60		30-150
Decachlorobiphenyl	58		30-150
2,4,5,6-Tetrachloro-m-xylene	52		30-150
Decachlorobiphenyl	53		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-18 D	Date Collected:	08/20/11 11:00
Client ID:	IN-D8-MC	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 01:40
Analytical Date:	08/31/11 12:17	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1390	--	5
Aroclor 1221	ND		ug/kg	1390	--	5
Aroclor 1232	ND		ug/kg	1390	--	5
Aroclor 1242	ND		ug/kg	1390	--	5
Aroclor 1248	ND		ug/kg	926	--	5
Aroclor 1260	ND		ug/kg	926	--	5
Aroclor 1262	ND		ug/kg	463	--	5
Aroclor 1268	ND		ug/kg	463	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	59		30-150
Decachlorobiphenyl	38		30-150
2,4,5,6-Tetrachloro-m-xylene	43		30-150
Decachlorobiphenyl	38		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-18 D	Date Collected:	08/20/11 11:00
Client ID:	IN-D8-MC	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 01:40
Analytical Date:	08/31/11 12:17	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	9470		ug/kg	1390	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	59		30-150
Decachlorobiphenyl	38		30-150
2,4,5,6-Tetrachloro-m-xylene	43		30-150
Decachlorobiphenyl	38		30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-19 D	Date Collected:	08/20/11 11:00
Client ID:	IN-D9-PHL	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 01:40
Analytical Date:	08/31/11 12:33	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1580	--	10
Aroclor 1221	ND		ug/kg	1580	--	10
Aroclor 1232	ND		ug/kg	1580	--	10
Aroclor 1242	ND		ug/kg	1580	--	10
Aroclor 1248	ND		ug/kg	1050	--	10
Aroclor 1260	ND		ug/kg	1050	--	10
Aroclor 1262	ND		ug/kg	526	--	10
Aroclor 1268	ND		ug/kg	526	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-19 D	Date Collected:	08/20/11 11:00
Client ID:	IN-D9-PHL	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 01:40
Analytical Date:	08/31/11 12:33	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	44900		ug/kg	1580	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113022-20 D	Date Collected:	08/20/11 11:00
Client ID:	IN-D10-WES	Date Received:	08/22/11
Sample Location:	310 LOWELL ST, ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	08/26/11 01:40
Analytical Date:	08/31/11 12:49	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	962	--	10
Aroclor 1221	ND		ug/kg	962	--	10
Aroclor 1232	ND		ug/kg	962	--	10
Aroclor 1242	ND		ug/kg	962	--	10
Aroclor 1248	ND		ug/kg	641	--	10
Aroclor 1254	ND		ug/kg	962	--	10
Aroclor 1260	ND		ug/kg	641	--	10
Aroclor 1262	ND		ug/kg	320	--	10
Aroclor 1268	ND		ug/kg	320	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-GSA

Project Number: 41062464.01

Lab Number: L1113022

Report Date: 09/01/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/31/11 13:53
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/24/11 01:35
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/27/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/27/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01-05 Batch: WG486348-1					
Aroclor 1016	ND		ug/kg	59.4	--
Aroclor 1221	ND		ug/kg	59.4	--
Aroclor 1232	ND		ug/kg	59.4	--
Aroclor 1242	ND		ug/kg	59.4	--
Aroclor 1248	ND		ug/kg	39.6	--
Aroclor 1260	ND		ug/kg	39.6	--
Aroclor 1262	ND		ug/kg	19.8	--
Aroclor 1268	ND		ug/kg	19.8	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	87		30-150
2,4,5,6-Tetrachloro-m-xylene	91		30-150
Decachlorobiphenyl	99		30-150

Project Name: IRS-GSA

Project Number: 41062464.01

Lab Number: L1113022

Report Date: 09/01/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/31/11 13:53
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/24/11 01:35
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/27/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/27/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01-05 Batch: WG486348-1					
Aroclor 1254	245		ug/kg	59.4	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	87		30-150
2,4,5,6-Tetrachloro-m-xylene	91		30-150
Decachlorobiphenyl	99		30-150

Project Name: IRS-GSA

Project Number: 41062464.01

Lab Number: L1113022

Report Date: 09/01/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/27/11 16:20
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/26/11 00:59
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/27/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/27/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 06-20 Batch: WG486609-1					
Aroclor 1016	ND		ug/kg	59.8	--
Aroclor 1221	ND		ug/kg	59.8	--
Aroclor 1232	ND		ug/kg	59.8	--
Aroclor 1242	ND		ug/kg	59.8	--
Aroclor 1248	ND		ug/kg	39.8	--
Aroclor 1254	ND		ug/kg	59.8	--
Aroclor 1260	ND		ug/kg	39.8	--
Aroclor 1262	ND		ug/kg	19.9	--
Aroclor 1268	ND		ug/kg	19.9	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	74		30-150
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	80		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: IRS-GSA
Project Number: 41062464.01

Lab Number: L1113022
Report Date: 09/01/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG486348-2 WG486348-3								
Aroclor 1016	64		62		40-140	3		50
Aroclor 1260	55		67		40-140	20		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	57		60		30-150
Decachlorobiphenyl	44		47		30-150
2,4,5,6-Tetrachloro-m-xylene	62		65		30-150
Decachlorobiphenyl	62		65		30-150

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 06-20 Batch: WG486609-2 WG486609-3								
Aroclor 1016	72		80		40-140	11		50
Aroclor 1260	79		85		40-140	7		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	69		74		30-150
Decachlorobiphenyl	71		76		30-150
2,4,5,6-Tetrachloro-m-xylene	68		65		30-150
Decachlorobiphenyl	74		70		30-150

Project Name: IRS-GSA
Project Number: 41062464.01

Lab Number: L1113022
Report Date: 09/01/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1113022-01A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-02A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-03A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-04A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-05A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-06A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-07A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-08A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-09A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-10A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-11A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-12A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-13A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-14A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-15A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-16A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-17A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-18A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-19A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)
L1113022-20A	Amber 120ml unpreserved	A	N/A	5.7	Y	Absent	PCB-8082LL-3540C(14)

*Values in parentheses indicate holding time in days

Project Name: IRS-GSA **Lab Number:** L1113022

Project Number: 41062464.01 **Report Date:** 09/01/11

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Project Name:	IRS-GSA	**Lab Number:**	L1113022
Project Number:	41062464.01	**Report Date:**	09/01/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: IRS-GSA **Lab Number:** L1113022
Project Number: 41062464.01 **Report Date:** 09/01/11

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B**,** 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 8/22/11

ALPHA Job #: L1113022

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: URS Corp.
Address: 5 Industrial Way Salem, NH 03089
Phone: 603-893-0616
Fax:
Email: Thomas_Lazott@urscorp.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: IRS - GSA
Project Location: 310 Lowell St Andover, MA
Project #: 41062464.01
Project Manager: Tom Lazott
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☑ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: EPA 8082

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	TOTAL # BOTTLES
3022 -01	IN-D11-MR	8-20-11	1100	Caulk	DD		
-02	IN-D12-ER						
-03	IN-D13-WE						
-04	IN-D14-DB						
-05	IN-D15-UR						
-06	IN-D16-CC						
-07	IN-D17-CRS						
-08	IN-D18-LD						
-09	IN-W1-MDF-S						
-10	IN-W2-MDF-S						

Container Type: G
Preservative: ice

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/22/11	[signature]	8/22/11 12
[signature]	8/22/11 1600	[signature]	8/22/11 1600

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:09011114:38

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 8/22/11

ALPHA Job #: L1113022

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: URS Corp
Address: 5 Industrial Way Salem, NH 03089
Phone: 603-893-0616
Fax: 603-893-
Email: THOMAS_LAZOTI@URSCORP.COM

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: IRS-GSA
Project Location: 300 Lowell St, Andover, MA
Project #: 41062464.0
Project Manager: Tom Lazoti
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☑ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: EPA 8082

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	TOTAL # BOTTLES
3022-11	IN-D1-LD	8-20-11	1100	Caulk	SD		
-12	IN-D2-LD						
-13	IN-D3-LD						
-14	IN-D4-FC						
-15	IN-D5-ME						
-16	IN-D6-MR						
-17	IN-D7-WR						
-18	IN-D8-MC						
-19	IN-D9-PHL						
-20	IN-D10-WES						

Container Type: G
Preservative: Ice

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/22/11	[signature]	8/22/11 1700
[signature]	8/22/11 16[illegible]	[signature]	8/22/11 1600

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:09011114:38

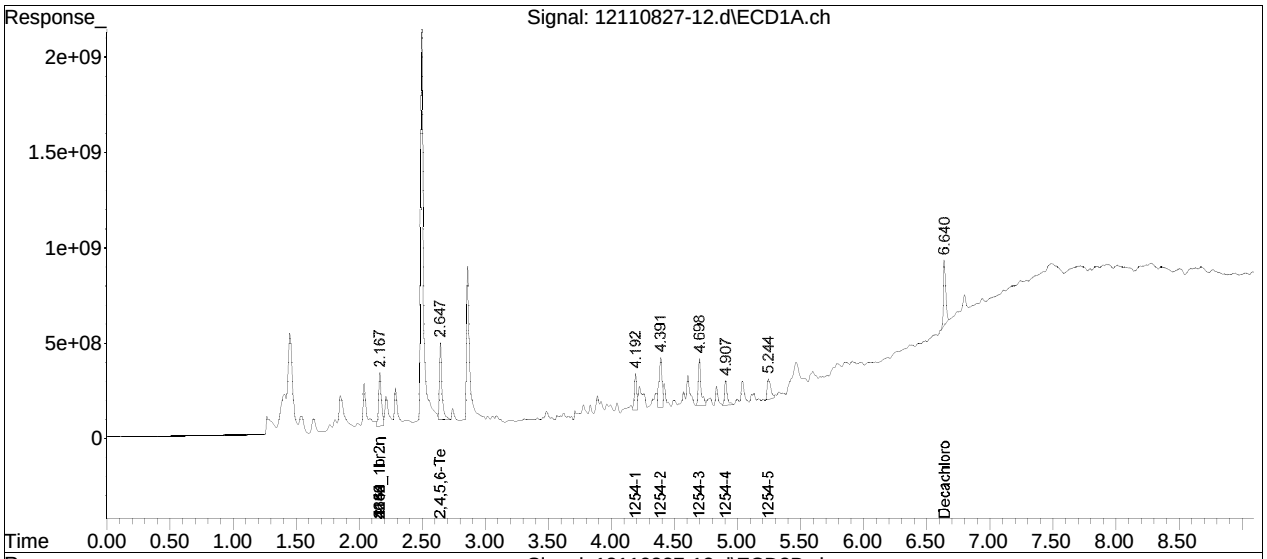
Quantitation Report (QT Reviewed)

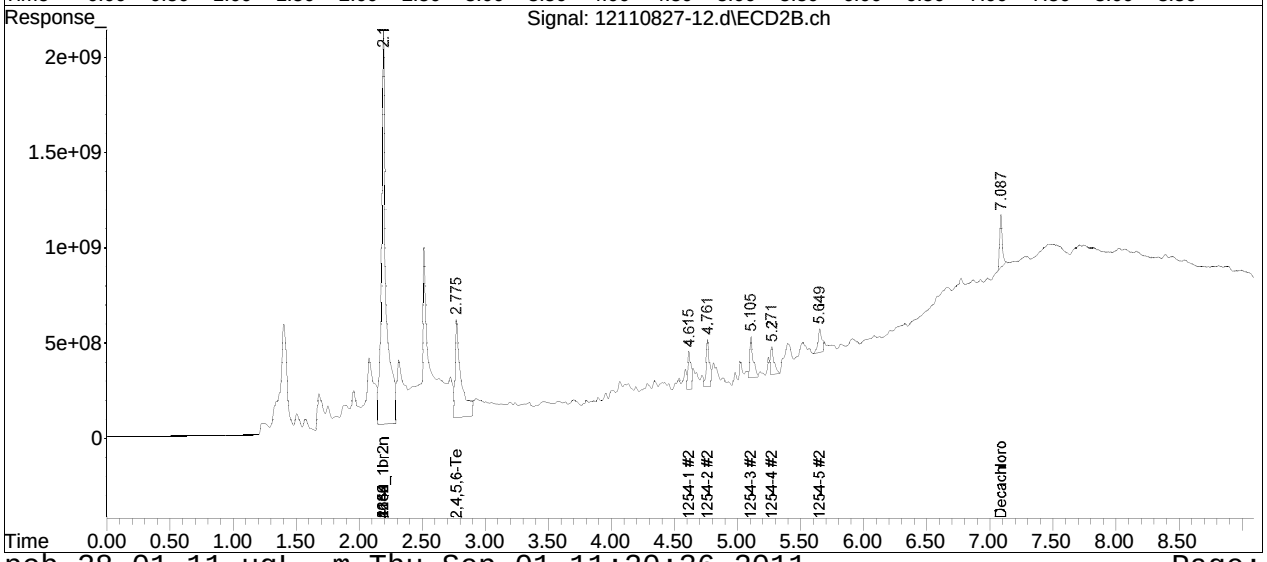
Data Path : I:\Pest12\110827\
Data File : 12110827-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Aug 2011 12:43 pm
Operator : pest12:kb
Sample : l1113022-15,42e,,
Misc : wg486848,wg486609,ical5910
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 01 11:20:10 2011
Quant Method : I:\Pest12\Methods Pest12\P12_pcb 28-01-11_ugL_.m
Quant Title : pcb
QLast Update : Wed Aug 24 09:33:39 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed





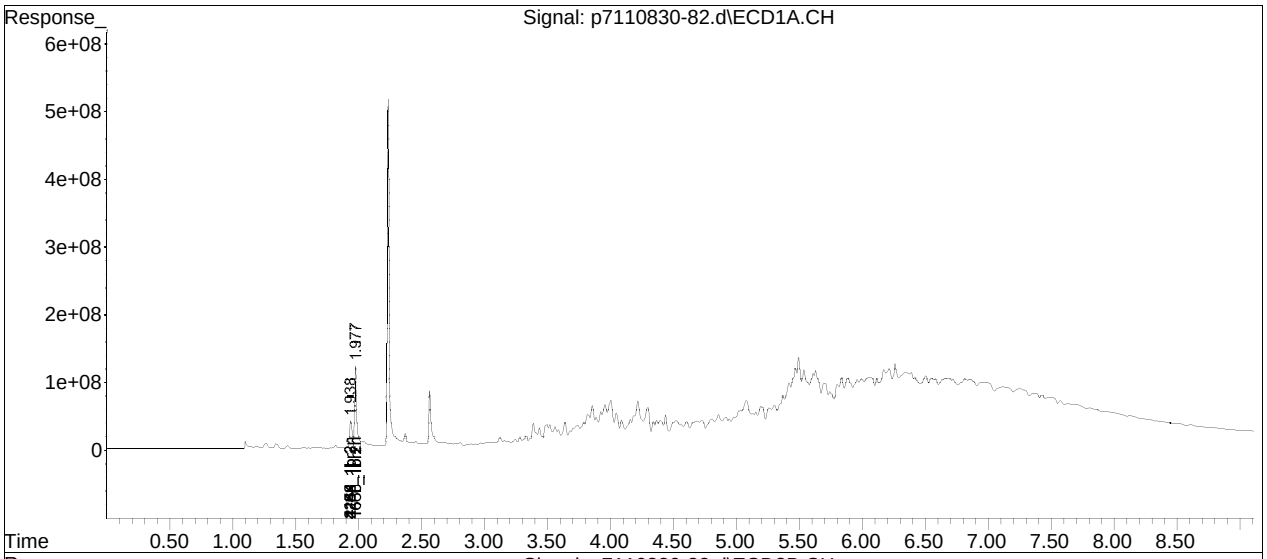
Quantitation Report (QT Reviewed)

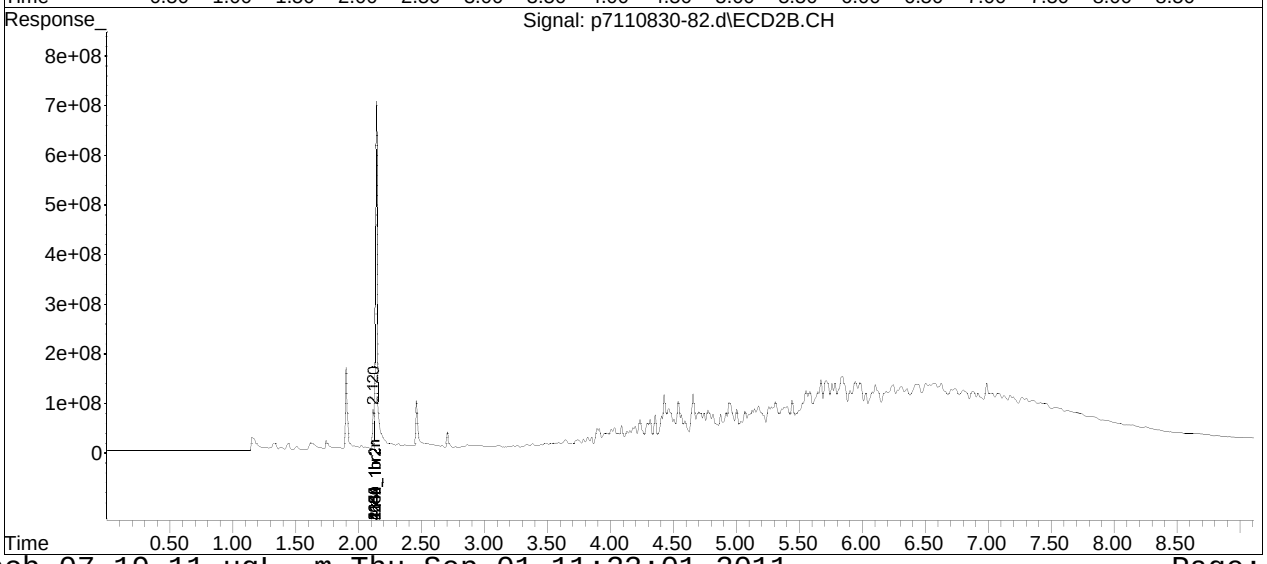
Data Path : I:\Pest7\110830\
Data File : p7110830-82.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 31 Aug 2011 12:49 pm
Operator : Pest7: kb
Sample : l1113022-20d,42e,10,
Misc : wg486848,wg486609,ical6056
ALS Vial : 0 (Sig #1); 82 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 31 14:47:13 2011
Quant Method : I:\Pest7\Methods Pest7\P7_pcb 07_19_11_ugL_.m
Quant Title : pcb
QLast Update : Wed Aug 31 14:32:35 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed





ANALYTICAL REPORT

Lab Number:	L1118200
Client:	URS Corporation 5 Industrial Way Salem, NH 03079
ATTN:	Thomas Lazott
Phone:	(603) 893-0616
Project Name:	IRS
Project Number:	Not Specified
Report Date:	11/10/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: IRS
Project Number: Not Specified

Lab Number: L1118200
Report Date: 11/10/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1118200-01	14 LINE COLUMN H	ANDOVER, MA	11/02/11 08:55
L1118200-02	14 LINE COLUMN F	ANDOVER, MA	11/02/11 09:25
L1118200-03	14 LINE COLUMN E	ANDOVER, MA	11/02/11 09:40
L1118200-04	14 LINE COLUMN D	ANDOVER, MA	11/02/11 09:55
L1118200-05	14 LINE COLUMN C	ANDOVER, MA	11/02/11 10:10
L1118200-06	14 LINE COLUMN B	ANDOVER, MA	11/02/11 10:15
L1118200-07	B LINE COLUMN 13.3	ANDOVER, MA	11/02/11 10:25
L1118200-08	B LINE COLUMN 13	ANDOVER, MA	11/02/11 10:45
L1118200-09	AE LINE COLUMN 11	ANDOVER, MA	11/02/11 11:00
L1118200-10	AE LINE COLUMN 10	ANDOVER, MA	11/02/11 11:15
L1118200-11	AE LINE COLUMN 9	ANDOVER, MA	11/02/11 11:35
L1118200-12	AE LINE COLUMN 8	ANDOVER, MA	11/02/11 11:45
L1118200-13	AE LINE COLUMN 7	ANDOVER, MA	11/02/11 11:55

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: IRS **Lab Number:** L1118200
Project Number: Not Specified **Report Date:** 11/10/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

PCB

L1118200-01 through -13 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question G:

One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The surrogate recoveries for L1118200-01 through -13 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (All at 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative Date: 11/10/11

ORGANICS

PCBS

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

SAMPLE RESULTS

Lab ID:	L1118200-01 D	Date Collected:	11/02/11 08:55
Client ID:	14 LINE COLUMN H	Date Received:	11/03/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3580A
Analytical Method:	97,8082	Extraction Date:	11/04/11 10:00
Analytical Date:	11/07/11 16:00	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	11/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	11/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	190000	--	100
Aroclor 1221	ND		ug/kg	190000	--	100
Aroclor 1232	ND		ug/kg	190000	--	100
Aroclor 1242	ND		ug/kg	190000	--	100
Aroclor 1248	ND		ug/kg	126000	--	100
Aroclor 1254	2010000		ug/kg	190000	--	100
Aroclor 1260	ND		ug/kg	126000	--	100
Aroclor 1262	ND		ug/kg	63300	--	100
Aroclor 1268	ND		ug/kg	63300	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

SAMPLE RESULTS

Lab ID:	L1118200-02 D	Date Collected:	11/02/11 09:25
Client ID:	14 LINE COLUMN F	Date Received:	11/03/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3580A
Analytical Method:	97,8082	Extraction Date:	11/04/11 10:00
Analytical Date:	11/04/11 16:50	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	11/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	11/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	2320000	--	1000
Aroclor 1221	ND		ug/kg	2320000	--	1000
Aroclor 1232	ND		ug/kg	2320000	--	1000
Aroclor 1242	ND		ug/kg	2320000	--	1000
Aroclor 1248	ND		ug/kg	1550000	--	1000
Aroclor 1260	ND		ug/kg	1550000	--	1000
Aroclor 1262	ND		ug/kg	775000	--	1000
Aroclor 1268	ND		ug/kg	775000	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

SAMPLE RESULTS

Lab ID:	L1118200-02 D	Date Collected:	11/02/11 09:25
Client ID:	14 LINE COLUMN F	Date Received:	11/03/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3580A
Analytical Method:	97,8082	Extraction Date:	11/04/11 10:00
Analytical Date:	11/04/11 16:50	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	11/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	11/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	52600000		ug/kg	2320000	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

SAMPLE RESULTS

Lab ID:	L1118200-03 D	Date Collected:	11/02/11 09:40
Client ID:	14 LINE COLUMN E	Date Received:	11/03/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3580A
Analytical Method:	97,8082	Extraction Date:	11/04/11 10:00
Analytical Date:	11/04/11 17:02	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	11/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	11/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	2500000	--	1000
Aroclor 1221	ND		ug/kg	2500000	--	1000
Aroclor 1232	ND		ug/kg	2500000	--	1000
Aroclor 1242	ND		ug/kg	2500000	--	1000
Aroclor 1248	ND		ug/kg	1670000	--	1000
Aroclor 1254	37400000		ug/kg	2500000	--	1000
Aroclor 1260	ND		ug/kg	1670000	--	1000
Aroclor 1262	ND		ug/kg	833000	--	1000
Aroclor 1268	ND		ug/kg	833000	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

SAMPLE RESULTS

Lab ID:	L1118200-04 D	Date Collected:	11/02/11 09:55
Client ID:	14 LINE COLUMN D	Date Received:	11/03/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3580A
Analytical Method:	97,8082	Extraction Date:	11/04/11 10:00
Analytical Date:	11/07/11 16:13	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	11/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	11/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	14000000	--	5000
Aroclor 1221	ND		ug/kg	14000000	--	5000
Aroclor 1232	ND		ug/kg	14000000	--	5000
Aroclor 1242	ND		ug/kg	14000000	--	5000
Aroclor 1248	ND		ug/kg	9340000	--	5000
Aroclor 1254	92700000		ug/kg	14000000	--	5000
Aroclor 1260	ND		ug/kg	9340000	--	5000
Aroclor 1262	ND		ug/kg	4670000	--	5000
Aroclor 1268	ND		ug/kg	4670000	--	5000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

SAMPLE RESULTS

Lab ID:	L1118200-05 D	Date Collected:	11/02/11 10:10
Client ID:	14 LINE COLUMN C	Date Received:	11/03/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3580A
Analytical Method:	97,8082	Extraction Date:	11/04/11 10:00
Analytical Date:	11/04/11 17:27	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	11/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	11/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	2320000	--	1000
Aroclor 1221	ND		ug/kg	2320000	--	1000
Aroclor 1232	ND		ug/kg	2320000	--	1000
Aroclor 1242	ND		ug/kg	2320000	--	1000
Aroclor 1248	ND		ug/kg	1550000	--	1000
Aroclor 1254	8400000		ug/kg	2320000	--	1000
Aroclor 1260	ND		ug/kg	1550000	--	1000
Aroclor 1262	ND		ug/kg	775000	--	1000
Aroclor 1268	ND		ug/kg	775000	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

SAMPLE RESULTS

Lab ID:	L1118200-06 D	Date Collected:	11/02/11 10:15
Client ID:	14 LINE COLUMN B	Date Received:	11/03/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3580A
Analytical Method:	97,8082	Extraction Date:	11/04/11 10:00
Analytical Date:	11/04/11 17:39	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	11/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	11/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	1780000	--	1000
Aroclor 1221	ND		ug/kg	1780000	--	1000
Aroclor 1232	ND		ug/kg	1780000	--	1000
Aroclor 1242	ND		ug/kg	1780000	--	1000
Aroclor 1248	ND		ug/kg	1180000	--	1000
Aroclor 1254	19700000		ug/kg	1780000	--	1000
Aroclor 1260	ND		ug/kg	1180000	--	1000
Aroclor 1262	ND		ug/kg	592000	--	1000
Aroclor 1268	ND		ug/kg	592000	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

SAMPLE RESULTS

Lab ID:	L1118200-07 D	Date Collected:	11/02/11 10:25
Client ID:	B LINE COLUMN 13.3	Date Received:	11/03/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3580A
Analytical Method:	97,8082	Extraction Date:	11/04/11 10:00
Analytical Date:	11/07/11 15:48	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	11/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	11/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	300000	--	100
Aroclor 1221	ND		ug/kg	300000	--	100
Aroclor 1232	ND		ug/kg	300000	--	100
Aroclor 1242	ND		ug/kg	300000	--	100
Aroclor 1248	ND		ug/kg	200000	--	100
Aroclor 1254	3010000		ug/kg	300000	--	100
Aroclor 1260	ND		ug/kg	200000	--	100
Aroclor 1262	ND		ug/kg	100000	--	100
Aroclor 1268	ND		ug/kg	100000	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

SAMPLE RESULTS

Lab ID:	L1118200-08 D	Date Collected:	11/02/11 10:45
Client ID:	B LINE COLUMN 13	Date Received:	11/03/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3580A
Analytical Method:	97,8082	Extraction Date:	11/04/11 10:00
Analytical Date:	11/04/11 18:04	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	11/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	11/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	2910000	--	1000
Aroclor 1221	ND		ug/kg	2910000	--	1000
Aroclor 1232	ND		ug/kg	2910000	--	1000
Aroclor 1242	ND		ug/kg	2910000	--	1000
Aroclor 1248	ND		ug/kg	1940000	--	1000
Aroclor 1254	14200000		ug/kg	2910000	--	1000
Aroclor 1260	ND		ug/kg	1940000	--	1000
Aroclor 1262	ND		ug/kg	971000	--	1000
Aroclor 1268	ND		ug/kg	971000	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

SAMPLE RESULTS

Lab ID:	L1118200-09 D	Date Collected:	11/02/11 11:00
Client ID:	AE LINE COLUMN 11	Date Received:	11/03/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3580A
Analytical Method:	97,8082	Extraction Date:	11/04/11 10:00
Analytical Date:	11/04/11 18:16	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	11/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	11/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	2700000	--	1000
Aroclor 1221	ND		ug/kg	2700000	--	1000
Aroclor 1232	ND		ug/kg	2700000	--	1000
Aroclor 1242	ND		ug/kg	2700000	--	1000
Aroclor 1248	ND		ug/kg	1800000	--	1000
Aroclor 1254	24600000		ug/kg	2700000	--	1000
Aroclor 1260	ND		ug/kg	1800000	--	1000
Aroclor 1262	ND		ug/kg	901000	--	1000
Aroclor 1268	ND		ug/kg	901000	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

SAMPLE RESULTS

Lab ID:	L1118200-10 D	Date Collected:	11/02/11 11:15
Client ID:	AE LINE COLUMN 10	Date Received:	11/03/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3580A
Analytical Method:	97,8082	Extraction Date:	11/04/11 10:00
Analytical Date:	11/04/11 18:29	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	11/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	11/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	2340000	--	1000
Aroclor 1221	ND		ug/kg	2340000	--	1000
Aroclor 1232	ND		ug/kg	2340000	--	1000
Aroclor 1242	ND		ug/kg	2340000	--	1000
Aroclor 1248	ND		ug/kg	1560000	--	1000
Aroclor 1254	22100000		ug/kg	2340000	--	1000
Aroclor 1260	ND		ug/kg	1560000	--	1000
Aroclor 1262	ND		ug/kg	781000	--	1000
Aroclor 1268	ND		ug/kg	781000	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

SAMPLE RESULTS

Lab ID:	L1118200-11 D	Date Collected:	11/02/11 11:35
Client ID:	AE LINE COLUMN 9	Date Received:	11/03/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3580A
Analytical Method:	97,8082	Extraction Date:	11/04/11 10:00
Analytical Date:	11/04/11 18:41	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	11/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	11/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	2040000	--	1000
Aroclor 1221	ND		ug/kg	2040000	--	1000
Aroclor 1232	ND		ug/kg	2040000	--	1000
Aroclor 1242	ND		ug/kg	2040000	--	1000
Aroclor 1248	ND		ug/kg	1360000	--	1000
Aroclor 1260	ND		ug/kg	1360000	--	1000
Aroclor 1262	ND		ug/kg	680000	--	1000
Aroclor 1268	ND		ug/kg	680000	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

SAMPLE RESULTS

Lab ID:	L1118200-11 D	Date Collected:	11/02/11 11:35
Client ID:	AE LINE COLUMN 9	Date Received:	11/03/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3580A
Analytical Method:	97,8082	Extraction Date:	11/04/11 10:00
Analytical Date:	11/04/11 18:41	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	11/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	11/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	30600000		ug/kg	2040000	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

SAMPLE RESULTS

Lab ID:	L1118200-12 D	Date Collected:	11/02/11 11:45
Client ID:	AE LINE COLUMN 8	Date Received:	11/03/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3580A
Analytical Method:	97,8082	Extraction Date:	11/04/11 10:00
Analytical Date:	11/04/11 18:53	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	11/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	11/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	2940000	--	1000
Aroclor 1221	ND		ug/kg	2940000	--	1000
Aroclor 1232	ND		ug/kg	2940000	--	1000
Aroclor 1242	ND		ug/kg	2940000	--	1000
Aroclor 1248	ND		ug/kg	1960000	--	1000
Aroclor 1254	44400000		ug/kg	2940000	--	1000
Aroclor 1260	ND		ug/kg	1960000	--	1000
Aroclor 1262	ND		ug/kg	980000	--	1000
Aroclor 1268	ND		ug/kg	980000	--	1000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

SAMPLE RESULTS

Lab ID:	L1118200-13 D	Date Collected:	11/02/11 11:55
Client ID:	AE LINE COLUMN 7	Date Received:	11/03/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3580A
Analytical Method:	97,8082	Extraction Date:	11/04/11 10:00
Analytical Date:	11/07/11 16:25	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	11/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	11/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	11700000	--	5000
Aroclor 1221	ND		ug/kg	11700000	--	5000
Aroclor 1232	ND		ug/kg	11700000	--	5000
Aroclor 1242	ND		ug/kg	11700000	--	5000
Aroclor 1248	ND		ug/kg	7810000	--	5000
Aroclor 1254	78000000		ug/kg	11700000	--	5000
Aroclor 1260	ND		ug/kg	7810000	--	5000
Aroclor 1262	ND		ug/kg	3910000	--	5000
Aroclor 1268	ND		ug/kg	3910000	--	5000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS

Project Number: Not Specified

Lab Number: L1118200

Report Date: 11/10/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082
Analytical Date: 11/04/11 16:26
Analyst: KB

Extraction Method: EPA 3580A
Extraction Date: 11/04/11 10:00
Cleanup Method1: EPA 3665A
Cleanup Date1: 11/04/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 11/04/11

Parameter	Result	Qualifier	Units	RL	MDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-13 Batch: WG500248-1					
Aroclor 1016	ND		ug/kg	3000	--
Aroclor 1221	ND		ug/kg	3000	--
Aroclor 1232	ND		ug/kg	3000	--
Aroclor 1242	ND		ug/kg	3000	--
Aroclor 1248	ND		ug/kg	2000	--
Aroclor 1254	ND		ug/kg	3000	--
Aroclor 1260	ND		ug/kg	2000	--
Aroclor 1262	ND		ug/kg	1000	--
Aroclor 1268	ND		ug/kg	1000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	129		30-150
Decachlorobiphenyl	113		30-150
2,4,5,6-Tetrachloro-m-xylene	137		30-150
Decachlorobiphenyl	126		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: IRS
Project Number: Not Specified

Lab Number: L1118200
Report Date: 11/10/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-13 Batch: WG500248-2 WG500248-3								
Aroclor 1016	81		90		40-140	11		30
Aroclor 1260	82		74		40-140	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	82		81		30-150
Decachlorobiphenyl	61		57		30-150
2,4,5,6-Tetrachloro-m-xylene	71		68		30-150
Decachlorobiphenyl	81		69		30-150

Project Name: IRS
Project Number: Not Specified

Lab Number: L1118200
Report Date: 11/10/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1118200-01A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	MCP-8082LL-10-3540C(365)
L1118200-02A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	MCP-8082LL-10-3540C(365)
L1118200-03A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	MCP-8082LL-10-3540C(365)
L1118200-04A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	MCP-8082LL-10-3540C(365)
L1118200-05A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	MCP-8082LL-10-3540C(365)
L1118200-06A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	MCP-8082LL-10-3540C(365)
L1118200-07A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	MCP-8082LL-10-3540C(365)
L1118200-08A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	MCP-8082LL-10-3540C(365)
L1118200-09A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	MCP-8082LL-10-3540C(365)
L1118200-10A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	MCP-8082LL-10-3540C(365)
L1118200-11A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	MCP-8082LL-10-3540C(365)
L1118200-12A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	MCP-8082LL-10-3540C(365)
L1118200-13A	Amber 120ml unpreserved	A	N/A	2.3	Y	Absent	MCP-8082LL-10-3540C(365)

*Values in parentheses indicate holding time in days

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name: IRS **Lab Number:** L1118200

Project Number: Not Specified **Report Date:** 11/10/11

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: IRS **Lab Number:** L1118200
Project Number: Not Specified **Report Date:** 11/10/11

REFERENCES

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised September 19, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B**,** 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

Serial_No:11101113:48

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA WOODS HOLE LABS

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 11/3/11

ALPHA Job #: L1118200

Client Information

Client: URS

Address: 5 Industrial Way Salem NH

Phone: 603 833-3717

Fax: 603 893-6240

Email: ben.grigas@urs.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: IRS

Project Location: Andover, MA

Project #:

Project Manager: Lazt

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 11/10/11 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MCP	

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: PCBs

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCBs	Sample Specific Comments	Total # Bottles
18200.1	14 Line Column H	11/2/11	855	Caulk	BJG	X		
2	14 Line Column F		925					
3	14 Line Column E		940					
4	14 Line Column D		955					
5	14 Line Column C		1010					
6	14 Line Column B		1015					
7	B Line Column 13.3		1025					
8	B Line Column 13		1045					
9	AE Line Column 11		1100					
10	AE Line Column 10		1115					

Container Type	A
Preservative	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	11/2/11 1500	[signature]	11/3/11 11:[illegible]
[signature]	11/3/11	[signature]	11/3/11 12:15
[signature]	11/3/11 1342	[signature]	11-3-11 1342

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA WOODS HOLE LABS

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 11/3/11

ALPHA Job #: L1118200

Client Information

Client: URS

Address: 5 Industrial Way Salem NH

Phone: 603 833-3717

Fax: 603 893-6240

Email: bon.grigas@urs.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: IRS

Project Location: Andover, MA

Project #:

Project Manager:

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 11/10/11 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client Info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MCP	

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: PCB's

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCB's	Sample Specific Comments	Total # Bottles
18200.11	AE Line Column 9	11/2/11	1135	Caulk	BOG	X		
12	AE Lin Column 8	↓	1145	↓	↓	↓		
13	AE Lin Column 7	↓	1155	↓	↓	↓		

Container Type	A
Preservative	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	11/2/11 1520	[illegible]	11/3/11 11:[illegible]
[illegible]	11/3/11 1215	[illegible]	11/3/11 1215
Don [illegible]	11/3/11 1342	[illegible]	11-3-11 1342

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

Serial_No:11101113:48

ANALYTICAL REPORT

Lab Number:	L1120594
Client:	URS Corporation 5 Industrial Way Salem, NH 03079
ATTN:	Thomas Lazott
Phone:	(603) 893-0616
Project Name:	IRS
Project Number:	41062464
Report Date:	12/13/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: IRS
Project Number: 41062464

Lab Number: L1120594
Report Date: 12/13/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1120594-01	COLUMN LINE 2 EAST WALL	ANDOVER, MA	12/09/11 08:40
L1120594-02	FB-1	ANDOVER, MA	12/09/11 00:00

Project Name: IRS
Project Number: 41062464

Lab Number: L1120594
Report Date: 12/13/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Sample Receipt

The samples were received at the laboratory above the required temperature range. The samples were transported to the laboratory in a cooler with blue ice and delivered directly from the sampling site.

PCBs

The WG507228-2 LCS recovery, associated with L1120594-01 and -02, were below the acceptance criteria for Aroclor 1260 (37%); however, re-extraction could not be performed due to lack of additional sample. The results of the original analyses are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Elizabeth Simmons

Title: Technical Director/Representative

Date: 12/13/11

ORGANICS

PCBS

Project Name: IRS **Lab Number:** L1120594

Project Number: 41062464 **Report Date:** 12/13/11

SAMPLE RESULTS

Lab ID:	L1120594-01	Date Collected:	12/09/11 08:40
Client ID:	COLUMN LINE 2 EAST WALL	Date Received:	12/09/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Wipe	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	12/09/11 22:45
Analytical Date:	12/12/11 09:17	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	12/11/11
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	12/11/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug Abs	0.500	--	1
Aroclor 1221	ND		ug Abs	0.500	--	1
Aroclor 1232	ND		ug Abs	0.500	--	1
Aroclor 1242	ND		ug Abs	0.500	--	1
Aroclor 1248	ND		ug Abs	0.500	--	1
Aroclor 1254	ND		ug Abs	0.500	--	1
Aroclor 1260	ND		ug Abs	0.500	--	1
Aroclor 1262	ND		ug Abs	0.500	--	1
Aroclor 1268	ND		ug Abs	0.500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	52		30-150
Decachlorobiphenyl	49		30-150
2,4,5,6-Tetrachloro-m-xylene	52		30-150
Decachlorobiphenyl	44		30-150

Project Name: IRS
Project Number: 41062464

Lab Number: L1120594
Report Date: 12/13/11

SAMPLE RESULTS

Lab ID:	L1120594-02	Date Collected:	12/09/11 00:00
Client ID:	FB-1	Date Received:	12/09/11
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Wipe	Extraction Method:	EPA 3540C
Analytical Method:	1,8082	Extraction Date:	12/09/11 22:45
Analytical Date:	12/12/11 09:29	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	12/11/11
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	12/11/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug Abs	0.500	--	1
Aroclor 1221	ND		ug Abs	0.500	--	1
Aroclor 1232	ND		ug Abs	0.500	--	1
Aroclor 1242	ND		ug Abs	0.500	--	1
Aroclor 1248	ND		ug Abs	0.500	--	1
Aroclor 1254	ND		ug Abs	0.500	--	1
Aroclor 1260	ND		ug Abs	0.500	--	1
Aroclor 1262	ND		ug Abs	0.500	--	1
Aroclor 1268	ND		ug Abs	0.500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	50		30-150
Decachlorobiphenyl	42		30-150
2,4,5,6-Tetrachloro-m-xylene	49		30-150
Decachlorobiphenyl	41		30-150

Project Name: IRS

Project Number: 41062464

Lab Number: L1120594

Report Date: 12/13/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 12/12/11 09:42
Analyst: GT

Extraction Method: EPA 3540C
Extraction Date: 12/09/11 22:45
Cleanup Method1: EPA 3665A
Cleanup Date1: 12/11/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 12/11/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01-02 Batch: WG507228-1					
Aroclor 1016	ND		ug Abs	0.500	--
Aroclor 1221	ND		ug Abs	0.500	--
Aroclor 1232	ND		ug Abs	0.500	--
Aroclor 1242	ND		ug Abs	0.500	--
Aroclor 1248	ND		ug Abs	0.500	--
Aroclor 1254	ND		ug Abs	0.500	--
Aroclor 1260	ND		ug Abs	0.500	--
Aroclor 1262	ND		ug Abs	0.500	--
Aroclor 1268	ND		ug Abs	0.500	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	62		30-150
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	63		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: IRS
Project Number: 41062464

Lab Number: L1120594
Report Date: 12/13/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG507228-2 WG507228-3								
Aroclor 1016	43		63		40-140	37		50
Aroclor 1260	**37**	Q	52		40-140	32		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	45		62		30-150
Decachlorobiphenyl	35		51		30-150
2,4,5,6-Tetrachloro-m-xylene	46		62		30-150
Decachlorobiphenyl	36		50		30-150

Project Name: IRS
Project Number: 41062464

Lab Number: L1120594
Report Date: 12/13/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1120594-01X	Amber 100ml Hexane preserved	A	N/A	13.1	Y	Absent	PCB-8082-3540C(14)
L1120594-02X	Amber 100ml Hexane preserved	A	N/A	13.1	Y	Absent	PCB-8082-3540C(14)

Container Comments

L1120594-01X

L1120594-02X

*Values in parentheses indicate holding time in days

Project Name: IRS **Lab Number:** L1120594

Project Number: 41062464 **Report Date:** 12/13/11

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name: IRS **Lab Number:** L1120594

Project Number: 41062464 **Report Date:** 12/13/11

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: IRS
Project Number: 41062464
Lab Number: L1120594
Report Date: 12/13/11

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised December 9, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Date Rec'd in Lab: 12/9/11

ALPHA Job #: L1120594

Client Information

Client: URS
Address: 5 Industrial Way
Salem, NH
Phone: 603-893-0016
Fax:
Email: thomas.Lazott@urs.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: IRS
Project Location: Andover, MA
Project #: 41062464
Project Manager: TOM Lazott
ALPHA Quote #:

Turn-Around Time

☐ Standard ☑ RUSH (only confirmed if pre-approved!) 72 HR

Date Due: 12/13/11 Time: 12:00

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: RCS	Sample Specific Comments	TOTAL # BOTTLES
20594.1	Column Line 2 East Wall	12/9/11	8:40	wipes	BF	✓		1
2	FB-1		—			✓		1

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type: A
Preservative:

PLEASE ANSWER QUESTIONS ABOVE!

S YOUR PROJECT
MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	12/9/11 / 935		12/9/11 935

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

ANALYTICAL REPORT

Lab Number:	L1201253
Client:	URS Corporation 5 Industrial Way Salem, NH 03079
ATTN:	Marilyn Wade
Phone:	(603) 893-0616
Project Name:	IRS-ANDOVER
Project Number:	41062464.71
Report Date:	01/27/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1201253-01	6L-DE-W1/0-3	ANDOVER, MA	01/24/12 09:45
L1201253-02	6L-DE-W1/3-6	ANDOVER, MA	01/24/12 10:00
L1201253-03	6L-DE-W1/6-9	ANDOVER, MA	01/24/12 10:15
L1201253-04	AE-D-EJ/0-3	ANDOVER, MA	01/24/12 10:45
L1201253-05	AE-D-EJ/0-3/DUP	ANDOVER, MA	01/24/12 10:45
L1201253-06	AE-D-EJ/3-6	ANDOVER, MA	01/24/12 11:00
L1201253-07	AE-D-EJ/6-9	ANDOVER, MA	01/24/12 11:10
L1201253-08	13L-AE-W29/0-3	ANDOVER, MA	01/24/12 11:45
L1201253-09	13L-AE-W29/3-6	ANDOVER, MA	01/24/12 11:55
L1201253-10	13L-AE-W29/6-9	ANDOVER, MA	01/24/12 12:00
L1201253-11	12L-BE-D3/0-3	ANDOVER, MA	01/24/12 12:30
L1201253-12	12L-BE-D3/3-6	ANDOVER, MA	01/24/12 12:40
L1201253-13	12L-BE-D3/6-9	ANDOVER, MA	01/24/12 12:50
L1201253-14	6L-B-EJ/0-3	ANDOVER, MA	01/24/12 13:10
L1201253-15	6L-B-EJ/3-6	ANDOVER, MA	01/24/12 13:20
L1201253-16	6L-B-EJ/6-9	ANDOVER, MA	01/24/12 13:30
L1201253-17	14L-E-EJ/0-3	ANDOVER, MA	01/24/12 13:45
L1201253-18	14L-E-EJ/0-3/DUP	ANDOVER, MA	01/24/12 13:45
L1201253-19	14L-E-EJ/3-6	ANDOVER, MA	01/24/12 14:00
L1201253-20	14L-E-EJ/6-9	ANDOVER, MA	01/24/12 14:15

Project Name: IRS-ANDOVER **Lab Number:** L1201253

Project Number: 41062464.71 **Report Date:** 01/27/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: IRS-ANDOVER **Lab Number:** L1201253
Project Number: 41062464.71 **Report Date:** 01/27/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

PCBs

L1201253-01 through -03 contain peaks which match the retention times for Aroclor 1242, but do not match the area ratios typical for this aroclor. The results for Aroclor 1242 are reported as "altered".

L1201253-04 and -05 contains peaks which match the retention times for Aroclor 1254, but do not match the area ratios typical for this aroclor. The results for Aroclor 1254 is reported as "altered".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 01/27/12

ORGANICS

PCBS

Project Name: IRS-ANDOVER
Project Number: 41062464.71
Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-01	Date Collected:	01/24/12 09:45
Client ID:	6L-DE-W1/0-3	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 21:10
Analytical Date:	01/26/12 22:45	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	98%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	59.8	--	1
Aroclor 1221	ND		ug/kg	59.8	--	1
Aroclor 1232	ND		ug/kg	59.8	--	1
Aroclor 1242	123		ug/kg	59.8	--	1
Aroclor 1248	ND		ug/kg	39.8	--	1
Aroclor 1254	ND		ug/kg	59.8	--	1
Aroclor 1260	ND		ug/kg	39.8	--	1
Aroclor 1262	ND		ug/kg	19.9	--	1
Aroclor 1268	ND		ug/kg	19.9	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	47		30-150
Decachlorobiphenyl	43		30-150
2,4,5,6-Tetrachloro-m-xylene	42		30-150
Decachlorobiphenyl	45		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-02	Date Collected:	01/24/12 10:00
Client ID:	6L-DE-W1/3-6	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 21:10
Analytical Date:	01/26/12 22:57	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	99%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	53.8	--	1
Aroclor 1221	ND		ug/kg	53.8	--	1
Aroclor 1232	ND		ug/kg	53.8	--	1
Aroclor 1242	237		ug/kg	53.8	--	1
Aroclor 1248	ND		ug/kg	35.9	--	1
Aroclor 1254	ND		ug/kg	53.8	--	1
Aroclor 1260	ND		ug/kg	35.9	--	1
Aroclor 1262	ND		ug/kg	17.9	--	1
Aroclor 1268	ND		ug/kg	17.9	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	84		30-150
Decachlorobiphenyl	71		30-150
2,4,5,6-Tetrachloro-m-xylene	79		30-150
Decachlorobiphenyl	86		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-03	Date Collected:	01/24/12 10:15
Client ID:	6L-DE-W1/6-9	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 21:10
Analytical Date:	01/26/12 23:09	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	99%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	51.8	--	1
Aroclor 1221	ND		ug/kg	51.8	--	1
Aroclor 1232	ND		ug/kg	51.8	--	1
Aroclor 1242	268		ug/kg	51.8	--	1
Aroclor 1248	ND		ug/kg	34.5	--	1
Aroclor 1254	ND		ug/kg	51.8	--	1
Aroclor 1260	ND		ug/kg	34.5	--	1
Aroclor 1262	ND		ug/kg	17.3	--	1
Aroclor 1268	ND		ug/kg	17.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	78		30-150
Decachlorobiphenyl	67		30-150
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	81		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71
Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-04	Date Collected:	01/24/12 10:45
Client ID:	AE-D-EJ/0-3	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 21:10
Analytical Date:	01/26/12 23:22	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	100%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	55.9	--	1
Aroclor 1221	ND		ug/kg	55.9	--	1
Aroclor 1232	ND		ug/kg	55.9	--	1
Aroclor 1242	ND		ug/kg	55.9	--	1
Aroclor 1248	ND		ug/kg	37.2	--	1
Aroclor 1254	564		ug/kg	55.9	--	1
Aroclor 1260	ND		ug/kg	37.2	--	1
Aroclor 1262	ND		ug/kg	18.6	--	1
Aroclor 1268	ND		ug/kg	18.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	68		30-150
2,4,5,6-Tetrachloro-m-xylene	78		30-150
Decachlorobiphenyl	83		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71
Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-05	Date Collected:	01/24/12 10:45
Client ID:	AE-D-EJ/0-3/DUP	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 21:10
Analytical Date:	01/26/12 23:39	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	99%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	57.5	--	1
Aroclor 1221	ND		ug/kg	57.5	--	1
Aroclor 1232	ND		ug/kg	57.5	--	1
Aroclor 1242	ND		ug/kg	57.5	--	1
Aroclor 1248	ND		ug/kg	38.3	--	1
Aroclor 1254	618		ug/kg	57.5	--	1
Aroclor 1260	ND		ug/kg	38.3	--	1
Aroclor 1262	ND		ug/kg	19.2	--	1
Aroclor 1268	ND		ug/kg	19.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	81		30-150
Decachlorobiphenyl	67		30-150
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	76		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71
Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-06	Date Collected:	01/24/12 11:00
Client ID:	AE-D-EJ/3-6	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/26/12 23:51	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	100%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	58.6	--	1
Aroclor 1221	ND		ug/kg	58.6	--	1
Aroclor 1232	ND		ug/kg	58.6	--	1
Aroclor 1248	ND		ug/kg	39.1	--	1
Aroclor 1254	130		ug/kg	58.6	--	1
Aroclor 1260	ND		ug/kg	39.1	--	1
Aroclor 1262	ND		ug/kg	19.5	--	1
Aroclor 1268	ND		ug/kg	19.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	83		30-150
Decachlorobiphenyl	71		30-150
2,4,5,6-Tetrachloro-m-xylene	81		30-150
Decachlorobiphenyl	87		30-150

Project Name: IRS-ANDOVER **Lab Number:** L1201253

Project Number: 41062464.71 **Report Date:** 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-06	Date Collected:	01/24/12 11:00
Client ID:	AE-D-EJ/3-6	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/26/12 23:51	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	100%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1242	92.1		ug/kg	58.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	83		30-150
Decachlorobiphenyl	71		30-150
2,4,5,6-Tetrachloro-m-xylene	81		30-150
Decachlorobiphenyl	87		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71
Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-07	Date Collected:	01/24/12 11:10
Client ID:	AE-D-EJ/6-9	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/27/12 00:03	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	100%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	56.2	--	1
Aroclor 1221	ND		ug/kg	56.2	--	1
Aroclor 1232	ND		ug/kg	56.2	--	1
Aroclor 1248	ND		ug/kg	37.4	--	1
Aroclor 1254	138		ug/kg	56.2	--	1
Aroclor 1260	ND		ug/kg	37.4	--	1
Aroclor 1262	ND		ug/kg	18.7	--	1
Aroclor 1268	ND		ug/kg	18.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	63		30-150
2,4,5,6-Tetrachloro-m-xylene	73		30-150
Decachlorobiphenyl	76		30-150

Project Name: IRS-ANDOVER **Lab Number:** L1201253

Project Number: 41062464.71 **Report Date:** 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-07	Date Collected:	01/24/12 11:10
Client ID:	AE-D-EJ/6-9	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/27/12 00:03	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	100%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1242	104		ug/kg	56.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	63		30-150
2,4,5,6-Tetrachloro-m-xylene	73		30-150
Decachlorobiphenyl	76		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-08	Date Collected:	01/24/12 11:45
Client ID:	13L-AE-W29/0-3	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/27/12 00:28	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	100%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	52.9	--	1
Aroclor 1221	ND		ug/kg	52.9	--	1
Aroclor 1232	ND		ug/kg	52.9	--	1
Aroclor 1242	422		ug/kg	52.9	--	1
Aroclor 1248	ND		ug/kg	35.3	--	1
Aroclor 1254	ND		ug/kg	52.9	--	1
Aroclor 1260	ND		ug/kg	35.3	--	1
Aroclor 1262	ND		ug/kg	17.6	--	1
Aroclor 1268	ND		ug/kg	17.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	84		30-150
Decachlorobiphenyl	72		30-150
2,4,5,6-Tetrachloro-m-xylene	79		30-150
Decachlorobiphenyl	83		30-150

Project Name: IRS-ANDOVER **Lab Number:** L1201253

Project Number: 41062464.71 **Report Date:** 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-09	Date Collected:	01/24/12 11:55
Client ID:	13L-AE-W29/3-6	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/27/12 00:40	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	100%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	57.7	--	1
Aroclor 1221	ND		ug/kg	57.7	--	1
Aroclor 1232	ND		ug/kg	57.7	--	1
Aroclor 1242	402		ug/kg	57.7	--	1
Aroclor 1248	ND		ug/kg	38.5	--	1
Aroclor 1254	ND		ug/kg	57.7	--	1
Aroclor 1260	ND		ug/kg	38.5	--	1
Aroclor 1262	ND		ug/kg	19.2	--	1
Aroclor 1268	ND		ug/kg	19.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	70		30-150
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	82		30-150

Project Name: IRS-ANDOVER **Lab Number:** L1201253

Project Number: 41062464.71 **Report Date:** 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-10	Date Collected:	01/24/12 12:00
Client ID:	13L-AE-W29/6-9	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/27/12 00:53	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	100%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	57.9	--	1
Aroclor 1221	ND		ug/kg	57.9	--	1
Aroclor 1232	ND		ug/kg	57.9	--	1
Aroclor 1242	459		ug/kg	57.9	--	1
Aroclor 1248	ND		ug/kg	38.6	--	1
Aroclor 1254	ND		ug/kg	57.9	--	1
Aroclor 1260	ND		ug/kg	38.6	--	1
Aroclor 1262	ND		ug/kg	19.3	--	1
Aroclor 1268	ND		ug/kg	19.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	71		30-150
2,4,5,6-Tetrachloro-m-xylene	64		30-150
Decachlorobiphenyl	81		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-11	Date Collected:	01/24/12 12:30
Client ID:	12L-BE-D3/0-3	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/27/12 01:05	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	100%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	57.0	--	1
Aroclor 1221	ND		ug/kg	57.0	--	1
Aroclor 1232	ND		ug/kg	57.0	--	1
Aroclor 1242	ND		ug/kg	57.0	--	1
Aroclor 1248	ND		ug/kg	38.0	--	1
Aroclor 1254	ND		ug/kg	57.0	--	1
Aroclor 1260	ND		ug/kg	38.0	--	1
Aroclor 1262	ND		ug/kg	19.0	--	1
Aroclor 1268	ND		ug/kg	19.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	82		30-150
Decachlorobiphenyl	71		30-150
2,4,5,6-Tetrachloro-m-xylene	83		30-150
Decachlorobiphenyl	81		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-12	Date Collected:	01/24/12 12:40
Client ID:	12L-BE-D3/3-6	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/27/12 01:17	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	100%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	58.5	--	1
Aroclor 1221	ND		ug/kg	58.5	--	1
Aroclor 1232	ND		ug/kg	58.5	--	1
Aroclor 1242	ND		ug/kg	58.5	--	1
Aroclor 1248	ND		ug/kg	39.0	--	1
Aroclor 1254	ND		ug/kg	58.5	--	1
Aroclor 1260	ND		ug/kg	39.0	--	1
Aroclor 1262	ND		ug/kg	19.5	--	1
Aroclor 1268	ND		ug/kg	19.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	82		30-150
Decachlorobiphenyl	73		30-150
2,4,5,6-Tetrachloro-m-xylene	82		30-150
Decachlorobiphenyl	85		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-13	Date Collected:	01/24/12 12:50
Client ID:	12L-BE-D3/6-9	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/27/12 01:30	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	100%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	54.2	--	1
Aroclor 1221	ND		ug/kg	54.2	--	1
Aroclor 1232	ND		ug/kg	54.2	--	1
Aroclor 1242	ND		ug/kg	54.2	--	1
Aroclor 1248	ND		ug/kg	36.2	--	1
Aroclor 1254	ND		ug/kg	54.2	--	1
Aroclor 1260	ND		ug/kg	36.2	--	1
Aroclor 1262	ND		ug/kg	18.1	--	1
Aroclor 1268	ND		ug/kg	18.1	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	82		30-150
Decachlorobiphenyl	71		30-150
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	83		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71
Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-14	Date Collected:	01/24/12 13:10
Client ID:	6L-B-EJ/0-3	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/27/12 01:42	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	99%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	53.1	--	1
Aroclor 1221	ND		ug/kg	53.1	--	1
Aroclor 1232	ND		ug/kg	53.1	--	1
Aroclor 1242	ND		ug/kg	53.1	--	1
Aroclor 1248	ND		ug/kg	35.4	--	1
Aroclor 1254	568		ug/kg	53.1	--	1
Aroclor 1260	ND		ug/kg	35.4	--	1
Aroclor 1262	ND		ug/kg	17.7	--	1
Aroclor 1268	ND		ug/kg	17.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	72		30-150
Decachlorobiphenyl	69		30-150
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	74		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71
Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-15	Date Collected:	01/24/12 13:20
Client ID:	6L-B-EJ/3-6	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/27/12 01:54	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	100%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	56.9	--	1
Aroclor 1221	ND		ug/kg	56.9	--	1
Aroclor 1232	ND		ug/kg	56.9	--	1
Aroclor 1242	ND		ug/kg	56.9	--	1
Aroclor 1248	ND		ug/kg	38.0	--	1
Aroclor 1254	ND		ug/kg	56.9	--	1
Aroclor 1260	ND		ug/kg	38.0	--	1
Aroclor 1262	ND		ug/kg	19.0	--	1
Aroclor 1268	ND		ug/kg	19.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	63		30-150
2,4,5,6-Tetrachloro-m-xylene	72		30-150
Decachlorobiphenyl	77		30-150

Project Name: IRS-ANDOVER **Lab Number:** L1201253

Project Number: 41062464.71 **Report Date:** 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-16	Date Collected:	01/24/12 13:30
Client ID:	6L-B-EJ/6-9	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/27/12 02:07	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	99%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	53.2	--	1
Aroclor 1221	ND		ug/kg	53.2	--	1
Aroclor 1232	ND		ug/kg	53.2	--	1
Aroclor 1242	ND		ug/kg	53.2	--	1
Aroclor 1248	ND		ug/kg	35.4	--	1
Aroclor 1254	62.9		ug/kg	53.2	--	1
Aroclor 1260	ND		ug/kg	35.4	--	1
Aroclor 1262	ND		ug/kg	17.7	--	1
Aroclor 1268	ND		ug/kg	17.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	76		30-150
2,4,5,6-Tetrachloro-m-xylene	78		30-150
Decachlorobiphenyl	87		30-150

Project Name: IRS-ANDOVER **Lab Number:** L1201253

Project Number: 41062464.71 **Report Date:** 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-17	Date Collected:	01/24/12 13:45
Client ID:	14L-E-EJ/0-3	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/27/12 02:19	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	99%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	55.1	--	1
Aroclor 1221	ND		ug/kg	55.1	--	1
Aroclor 1232	ND		ug/kg	55.1	--	1
Aroclor 1242	ND		ug/kg	55.1	--	1
Aroclor 1248	ND		ug/kg	36.7	--	1
Aroclor 1254	1110		ug/kg	55.1	--	1
Aroclor 1260	ND		ug/kg	36.7	--	1
Aroclor 1262	ND		ug/kg	18.4	--	1
Aroclor 1268	ND		ug/kg	18.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	70		30-150
2,4,5,6-Tetrachloro-m-xylene	81		30-150
Decachlorobiphenyl	84		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71
Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-18	Date Collected:	01/24/12 13:45
Client ID:	14L-E-EJ/0-3/DUP	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/27/12 02:31	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	99%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	55.5	--	1
Aroclor 1221	ND		ug/kg	55.5	--	1
Aroclor 1232	ND		ug/kg	55.5	--	1
Aroclor 1242	ND		ug/kg	55.5	--	1
Aroclor 1248	ND		ug/kg	37.0	--	1
Aroclor 1254	1250		ug/kg	55.5	--	1
Aroclor 1260	ND		ug/kg	37.0	--	1
Aroclor 1262	ND		ug/kg	18.5	--	1
Aroclor 1268	ND		ug/kg	18.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	64		30-150
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	75		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71
Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-19	Date Collected:	01/24/12 14:00
Client ID:	14L-E-EJ/3-6	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/27/12 02:44	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	99%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	59.4	--	1
Aroclor 1221	ND		ug/kg	59.4	--	1
Aroclor 1232	ND		ug/kg	59.4	--	1
Aroclor 1242	ND		ug/kg	59.4	--	1
Aroclor 1248	ND		ug/kg	39.6	--	1
Aroclor 1254	460		ug/kg	59.4	--	1
Aroclor 1260	ND		ug/kg	39.6	--	1
Aroclor 1262	ND		ug/kg	19.8	--	1
Aroclor 1268	ND		ug/kg	19.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	74		30-150
2,4,5,6-Tetrachloro-m-xylene	82		30-150
Decachlorobiphenyl	82		30-150

Project Name: IRS-ANDOVER **Lab Number:** L1201253

Project Number: 41062464.71 **Report Date:** 01/27/12

SAMPLE RESULTS

Lab ID:	L1201253-20	Date Collected:	01/24/12 14:15
Client ID:	14L-E-EJ/6-9	Date Received:	01/24/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	01/25/12 22:00
Analytical Date:	01/27/12 02:56	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	01/26/12
Percent Solids:	100%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	01/26/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	56.5	--	1
Aroclor 1221	ND		ug/kg	56.5	--	1
Aroclor 1232	ND		ug/kg	56.5	--	1
Aroclor 1242	ND		ug/kg	56.5	--	1
Aroclor 1248	ND		ug/kg	37.7	--	1
Aroclor 1254	76.2		ug/kg	56.5	--	1
Aroclor 1260	ND		ug/kg	37.7	--	1
Aroclor 1262	ND		ug/kg	18.8	--	1
Aroclor 1268	ND		ug/kg	18.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	74		30-150
2,4,5,6-Tetrachloro-m-xylene	79		30-150
Decachlorobiphenyl	86		30-150

Project Name: IRS-ANDOVER

Project Number: 41062464.71

Lab Number: L1201253

Report Date: 01/27/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082
Analytical Date: 01/26/12 22:08
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 01/25/12 21:10
Cleanup Method1: EPA 3665A
Cleanup Date1: 01/26/12
Cleanup Method2: EPA 3660B
Cleanup Date2: 01/26/12

Parameter	Result	Qualifier	Units	RL	MDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-20 Batch: WG515348-1					
Aroclor 1016	ND		ug/kg	53.1	--
Aroclor 1221	ND		ug/kg	53.1	--
Aroclor 1232	ND		ug/kg	53.1	--
Aroclor 1242	ND		ug/kg	53.1	--
Aroclor 1248	ND		ug/kg	35.4	--
Aroclor 1254	ND		ug/kg	53.1	--
Aroclor 1260	ND		ug/kg	35.4	--
Aroclor 1262	ND		ug/kg	17.7	--
Aroclor 1268	ND		ug/kg	17.7	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	83		30-150
Decachlorobiphenyl	81		30-150
2,4,5,6-Tetrachloro-m-xylene	81		30-150
Decachlorobiphenyl	94		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-20 Batch: WG515348-2 WG515348-3								
Aroclor 1016	67		75		40-140	11		30
Aroclor 1260	70		71		40-140	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	76		83		30-150
Decachlorobiphenyl	67		70		30-150
2,4,5,6-Tetrachloro-m-xylene	75		81		30-150
Decachlorobiphenyl	81		86		30-150

INORGANICS
&
MISCELLANEOUS

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-01
Client ID: 6L-DE-W1/0-3
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 09:45
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-02
Client ID: 6L-DE-W1/3-6
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 10:00
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-03
Client ID: 6L-DE-W1/6-9
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 10:15
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-04
Client ID: AE-D-EJ/0-3
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 10:45
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-05
Client ID: AE-D-EJ/0-3/DUP
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 10:45
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-06
Client ID: AE-D-EJ/3-6
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 11:00
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-07
Client ID: AE-D-EJ/6-9
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 11:10
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-08
Client ID: 13L-AE-W29/0-3
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 11:45
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-09
Client ID: 13L-AE-W29/3-6
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 11:55
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-10
Client ID: 13L-AE-W29/6-9
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 12:00
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-11
Client ID: 12L-BE-D3/0-3
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 12:30
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-12
Client ID: 12L-BE-D3/3-6
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 12:40
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-13
Client ID: 12L-BE-D3/6-9
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 12:50
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-14
Client ID: 6L-B-EJ/0-3
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 13:10
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-15
Client ID: 6L-B-EJ/3-6
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 13:20
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-16
Client ID: 6L-B-EJ/6-9
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 13:30
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-17
Client ID: 14L-E-EJ/0-3
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 13:45
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-18
Client ID: 14L-E-EJ/0-3/DUP
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 13:45
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-19
Client ID: 14L-E-EJ/3-6
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 14:00
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

SAMPLE RESULTS

Lab ID: L1201253-20
Client ID: 14L-E-EJ/6-9
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 01/24/12 14:15
Date Received: 01/24/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.10	NA	1	-	01/25/12 11:40	30,2540G	MF

Lab Duplicate Analysis
Batch Quality Control

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG515190-1 QC Sample: L1201253-01 Client ID: 6L-DE-W1/0-3						
Solids, Total	98	97	%	1		20

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1201253-01A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-02A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-03A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-04A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-05A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-06A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-07A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-08A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-09A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-10A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-11A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-12A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-13A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-14A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-15A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-16A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-17A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-18A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201253-19A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)

*Values in parentheses indicate holding time in days

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201253
Report Date: 01/27/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1201253-20A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)

*Values in parentheses indicate holding time in days

Project Name:	IRS-ANDOVER	**Lab Number:**	L1201253
Project Number:	41062464.71	**Report Date:**	01/27/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	IRS-ANDOVER	**Lab Number:**	L1201253
Project Number:	41062464.71	**Report Date:**	01/27/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

REFERENCES

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 3, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

Serial_No:01271210:45

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 1/24/12

ALPHA Job #: L1201253

Client Information

Client: URS

Address: 5 Industrial Way, Salem, NH 03079

Phone: (603) 893-0616

Fax:

Email: marilyn.wade@urs.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: IRS - Andover

Project Location: Andover, MA

Project #: 41062464.71

Project Manager: Marilyn Wade

ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)

Date Due: 72HR TAT Time: 1/27/12

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program MA MCP Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: PCB x 8082

SAMPLE HANDLING: Filtration ☐ Done ☐ Not needed ☐ Lab to do; Preservation ☐ Lab to do (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCB x 8082	Sample Specific Comments	Total # Bottles
01253 1	6L-DE-W1/0-3	1.24.12	0945	X1	JKH	1	X1 = concrete sample brick/mortar	1
2	6L-DE-W1/3-6		1000			1		1
3	6L-DE-W1/6-9		1015			1		1
4	AE-D-EJ/0-3		1045			1		1
5	AE-D-EJ/0-3/DUP		1045			1		1
6	AE-D-EJ/3-6		1100			1		1
7	AE-D-EJ/6-9		1110			1		1
8	13L-AE-W29/0-3		1145			1		1
9	13L-AE-W29/3-6		1155			1		1
10	13L-AE-W29/6-9		1200			1		1

Container Type: G

Preservative: A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Jeffrey K. Harshman	1/24/12 1545	[illegible]	1/24/12 1545

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 1/24/12

ALPHA Job #: L1201253

Client Information

Client: URS

Address: 5 Industrial Way, Salem, NH 03079

Phone: (603) 893-0616

Fax:

Email: marilyn.wade@urs.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: IRS - Andover

Project Location: Andover, MA

Project #: 41062464.71

Project Manager: Marilyn Wade

ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)

Date Due: 72 HR TAT Time: 1/27/12

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: MA MCP Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All ***CAM*** methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: PCB x 8082

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCB x 8082	Sample Specific Comments	TOTAL # BOTTLES
01253.11	12L-BE-D3/0-3	1/24/12	1230	X1	JKH	1	X1 = brick + mortar	1
12	12L-BE-D3/3-6	↓	1240	↓	↓	1	↓	1
13	12L-BE-D3/6-9	↓	1250	↓	↓	1	↓	1
14	6L-B-EJ/0-3	↓	1310	↓	↓	1	↓	1
15	6L-B-EJ/3-6	↓	1320	↓	↓	1	↓	1
16	6L-B-EJ/6-9	↓	1330	↓	↓	1	↓	1
17	14L-E-EJ/0-3	↓	1345	↓	↓	1	↓	1
18	14L-E-EJ/0-3/DUP	↓	1345	↓	↓	1	↓	1
19	14L-E-EJ/3-6	↓	1400	↓	↓	1	↓	1
20	14L-E-EJ/6-9	↓	1415	↓	↓	1	↓	1
					Container Type	G		
					Preservative	A		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Jeffrey K Harshman	1/24/12 1545	Ken Chiang	1/24/12 1545

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:01271210:45

ANALYTICAL REPORT

Lab Number:	L1201875
Client:	URS Corporation 5 Industrial Way Salem, NH 03079
ATTN:	Marilyn Wade
Phone:	(603) 893-0616
Project Name:	IRS-ANDOVER
Project Number:	41062464.71
Report Date:	02/07/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201875
Report Date: 02/07/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1201875-01	6L-B-W1/0-3	ANDOVER, MA	02/03/12 08:20
L1201875-02	6L-B-W1/3-6	ANDOVER, MA	02/03/12 08:40
L1201875-03	6L-B-W1/6-9	ANDOVER, MA	02/03/12 08:55
L1201875-04	14L-D-EJ/6-9	ANDOVER, MA	02/03/12 09:45
L1201875-05	14L-D-EJ/3-6	ANDOVER, MA	02/03/12 10:00
L1201875-06	14L-D-EJ/0-3	ANDOVER, MA	02/03/12 10:15

Project Name: IRS-ANDOVER **Lab Number:** L1201875

Project Number: 41062464.71 **Report Date:** 02/07/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: IRS-ANDOVER **Lab Number:** L1201875
Project Number: 41062464.71 **Report Date:** 02/07/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

PCBs

L1201875-01 through -06 have elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

L1201875-02 has elevated detection limits due to the dilution required by matrix interferences encountered during the concentration of the sample.

L1201875-06 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

In reference to question G:

L1201875-02 and -06: One or more of the target analytes did not achieve the requested CAM reporting limits.

Project Name:	IRS-ANDOVER	**Lab Number:**	L1201875
Project Number:	41062464.71	**Report Date:**	02/07/12

Case Narrative (continued)

In reference to question H:

The surrogate recoveries for L1201875-06 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all at 0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative

Date: 02/07/12

ORGANICS

PCBS

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201875
Report Date: 02/07/12

SAMPLE RESULTS

Lab ID:	L1201875-01	Date Collected:	02/03/12 08:20
Client ID:	6L-B-W1/0-3	Date Received:	02/03/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	02/03/12 14:35
Analytical Date:	02/06/12 03:15	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	02/04/12
Percent Solids:	96%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/04/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	52.3	--	1
Aroclor 1221	ND		ug/kg	52.3	--	1
Aroclor 1232	ND		ug/kg	52.3	--	1
Aroclor 1242	ND		ug/kg	52.3	--	1
Aroclor 1248	ND		ug/kg	34.9	--	1
Aroclor 1254	160		ug/kg	52.3	--	1
Aroclor 1260	ND		ug/kg	34.9	--	1
Aroclor 1262	ND		ug/kg	17.4	--	1
Aroclor 1268	ND		ug/kg	17.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	58		30-150
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	71		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201875
Report Date: 02/07/12

SAMPLE RESULTS

Lab ID:	L1201875-02	Date Collected:	02/03/12 08:40
Client ID:	6L-B-W1/3-6	Date Received:	02/03/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	02/03/12 14:35
Analytical Date:	02/06/12 04:34	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	02/05/12
Percent Solids:	98%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/05/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	110	--	2
Aroclor 1221	ND		ug/kg	110	--	2
Aroclor 1232	ND		ug/kg	110	--	2
Aroclor 1242	ND		ug/kg	110	--	2
Aroclor 1248	ND		ug/kg	73.3	--	2
Aroclor 1254	ND		ug/kg	110	--	2
Aroclor 1260	ND		ug/kg	73.3	--	2
Aroclor 1262	ND		ug/kg	36.6	--	2
Aroclor 1268	ND		ug/kg	36.6	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	69		30-150
2,4,5,6-Tetrachloro-m-xylene	49		30-150
Decachlorobiphenyl	76		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71
Lab Number: L1201875
Report Date: 02/07/12

SAMPLE RESULTS

Lab ID:	L1201875-03	Date Collected:	02/03/12 08:55
Client ID:	6L-B-W1/6-9	Date Received:	02/03/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	02/03/12 14:35
Analytical Date:	02/06/12 03:28	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	02/04/12
Percent Solids:	99%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/04/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	57.7	--	1
Aroclor 1221	ND		ug/kg	57.7	--	1
Aroclor 1232	ND		ug/kg	57.7	--	1
Aroclor 1242	ND		ug/kg	57.7	--	1
Aroclor 1248	ND		ug/kg	38.5	--	1
Aroclor 1254	ND		ug/kg	57.7	--	1
Aroclor 1260	ND		ug/kg	38.5	--	1
Aroclor 1262	ND		ug/kg	19.2	--	1
Aroclor 1268	ND		ug/kg	19.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	39		30-150
Decachlorobiphenyl	45		30-150
2,4,5,6-Tetrachloro-m-xylene	36		30-150
Decachlorobiphenyl	48		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71
Lab Number: L1201875
Report Date: 02/07/12

SAMPLE RESULTS

Lab ID:	L1201875-04	Date Collected:	02/03/12 09:45
Client ID:	14L-D-EJ/6-9	Date Received:	02/03/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	02/03/12 14:35
Analytical Date:	02/06/12 03:41	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	02/04/12
Percent Solids:	99%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/04/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	51.8	--	1
Aroclor 1221	ND		ug/kg	51.8	--	1
Aroclor 1232	ND		ug/kg	51.8	--	1
Aroclor 1242	ND		ug/kg	51.8	--	1
Aroclor 1248	ND		ug/kg	34.5	--	1
Aroclor 1254	77.9		ug/kg	51.8	--	1
Aroclor 1260	ND		ug/kg	34.5	--	1
Aroclor 1262	ND		ug/kg	17.3	--	1
Aroclor 1268	ND		ug/kg	17.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	66		30-150
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	81		30-150

Project Name: IRS-ANDOVER **Lab Number:** L1201875

Project Number: 41062464.71 **Report Date:** 02/07/12

SAMPLE RESULTS

Lab ID:	L1201875-05	Date Collected:	02/03/12 10:00
Client ID:	14L-D-EJ/3-6	Date Received:	02/03/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	02/03/12 14:35
Analytical Date:	02/06/12 04:08	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	02/04/12
Percent Solids:	99%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/04/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	48.7	--	1
Aroclor 1221	ND		ug/kg	48.7	--	1
Aroclor 1232	ND		ug/kg	48.7	--	1
Aroclor 1242	ND		ug/kg	48.7	--	1
Aroclor 1248	ND		ug/kg	32.5	--	1
Aroclor 1260	ND		ug/kg	32.5	--	1
Aroclor 1262	ND		ug/kg	16.2	--	1
Aroclor 1268	ND		ug/kg	16.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	66		30-150
2,4,5,6-Tetrachloro-m-xylene	73		30-150
Decachlorobiphenyl	79		30-150

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201875
Report Date: 02/07/12

SAMPLE RESULTS

Lab ID:	L1201875-05	Date Collected:	02/03/12 10:00
Client ID:	14L-D-EJ/3-6	Date Received:	02/03/12
Sample Location:	ANDOVER, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	EPA 3540C
Analytical Method:	97,8082	Extraction Date:	02/03/12 14:35
Analytical Date:	02/06/12 04:08	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	02/04/12
Percent Solids:	99%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/04/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	109		ug/kg	48.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	66		30-150
2,4,5,6-Tetrachloro-m-xylene	73		30-150
Decachlorobiphenyl	79		30-150

Project Name: IRS-ANDOVER **Lab Number:** L1201875

Project Number: 41062464.71 **Report Date:** 02/07/12

SAMPLE RESULTS

Lab ID:	L1201875-06	D	Date Collected:	02/03/12 10:15
Client ID:	14L-D-EJ/0-3		Date Received:	02/03/12
Sample Location:	ANDOVER, MA		Field Prep:	Not Specified
Matrix:	Solid		Extraction Method:	EPA 3540C
Analytical Method:	97,8082		Extraction Date:	02/03/12 14:35
Analytical Date:	02/06/12 18:46		Cleanup Method1:	EPA 3665A
Analyst:	SS		Cleanup Date1:	02/04/12
Percent Solids:	98%		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	02/04/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	997	--	20
Aroclor 1221	ND		ug/kg	997	--	20
Aroclor 1232	ND		ug/kg	997	--	20
Aroclor 1242	ND		ug/kg	997	--	20
Aroclor 1248	ND		ug/kg	665	--	20
Aroclor 1254	7160		ug/kg	997	--	20
Aroclor 1260	ND		ug/kg	665	--	20
Aroclor 1262	ND		ug/kg	332	--	20
Aroclor 1268	ND		ug/kg	332	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: IRS-ANDOVER

Project Number: 41062464.71

Lab Number: L1201875

Report Date: 02/07/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082
Analytical Date: 02/05/12 13:54
Analyst: SS

Extraction Method: EPA 3540C
Extraction Date: 02/03/12 14:35
Cleanup Method1: EPA 3665A
Cleanup Date1: 02/04/12
Cleanup Method2: EPA 3660B
Cleanup Date2: 02/04/12

Parameter	Result	Qualifier	Units	RL	MDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-06 Batch: WG516781-1					
Aroclor 1016	ND		ug/kg	18.9	--
Aroclor 1221	ND		ug/kg	18.9	--
Aroclor 1232	ND		ug/kg	18.9	--
Aroclor 1242	ND		ug/kg	18.9	--
Aroclor 1248	ND		ug/kg	12.6	--
Aroclor 1254	ND		ug/kg	18.9	--
Aroclor 1260	ND		ug/kg	12.6	--
Aroclor 1262	ND		ug/kg	6.30	--
Aroclor 1268	ND		ug/kg	6.30	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	88		30-150
Decachlorobiphenyl	81		30-150
2,4,5,6-Tetrachloro-m-xylene	94		30-150
Decachlorobiphenyl	103		30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRS-ANDOVER

Project Number: 41062464.71

Lab Number: L1201875

Report Date: 02/07/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-06 Batch: WG516781-2 WG516781-3								
Aroclor 1016	93		109		40-140	16		30
Aroclor 1260	97		110		40-140	13		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	92		100		30-150
Decachlorobiphenyl	85		95		30-150
2,4,5,6-Tetrachloro-m-xylene	91		99		30-150
Decachlorobiphenyl	97		108		30-150

INORGANICS
&
MISCELLANEOUS

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201875
Report Date: 02/07/12

SAMPLE RESULTS

Lab ID: L1201875-01
Client ID: 6L-B-W1/0-3
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 02/03/12 08:20
Date Received: 02/03/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96		%	0.10	NA	1	-	02/06/12 15:00	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201875
Report Date: 02/07/12

SAMPLE RESULTS

Lab ID: L1201875-02
Client ID: 6L-B-W1/3-6
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 02/03/12 08:40
Date Received: 02/03/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98		%	0.10	NA	1	-	02/06/12 15:00	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201875
Report Date: 02/07/12

SAMPLE RESULTS

Lab ID: L1201875-03
Client ID: 6L-B-W1/6-9
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 02/03/12 08:55
Date Received: 02/03/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99		%	0.10	NA	1	-	02/06/12 15:00	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201875
Report Date: 02/07/12

SAMPLE RESULTS

Lab ID: L1201875-04
Client ID: 14L-D-EJ/6-9
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 02/03/12 09:45
Date Received: 02/03/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99		%	0.10	NA	1	-	02/06/12 15:00	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201875
Report Date: 02/07/12

SAMPLE RESULTS

Lab ID: L1201875-05
Client ID: 14L-D-EJ/3-6
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 02/03/12 10:00
Date Received: 02/03/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99		%	0.10	NA	1	-	02/06/12 15:00	30,2540G	MF

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201875
Report Date: 02/07/12

SAMPLE RESULTS

Lab ID: L1201875-06
Client ID: 14L-D-EJ/0-3
Sample Location: ANDOVER, MA
Matrix: Solid

Date Collected: 02/03/12 10:15
Date Received: 02/03/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98		%	0.10	NA	1	-	02/06/12 15:00	30,2540G	MF

Lab Duplicate Analysis
Batch Quality Control

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201875
Report Date: 02/07/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG517013-1 QC Sample: L1201875-06 Client ID: 14L-D-EJ/0-3						
Solids, Total	98	98	%	0		20

Project Name: IRS-ANDOVER
Project Number: 41062464.71

Lab Number: L1201875
Report Date: 02/07/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1201875-01A	Glass 100ml unpreserved	A	N/A	4	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201875-02A	Glass 100ml unpreserved	A	N/A	4	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201875-03A	Glass 100ml unpreserved	A	N/A	4	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201875-04A	Glass 100ml unpreserved	A	N/A	4	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201875-05A	Glass 100ml unpreserved	A	N/A	4	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)
L1201875-06A	Glass 100ml unpreserved	A	N/A	4	Y	Absent	TS(7),MCP-8082LL-10-3540C(365)

*Values in parentheses indicate holding time in days

Project Name:	IRS-ANDOVER	**Lab Number:**	L1201875
Project Number:	41062464.71	**Report Date:**	02/07/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	IRS-ANDOVER	**Lab Number:**	L1201875
Project Number:	41062464.71	**Report Date:**	02/07/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

REFERENCES

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 30, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 2/3/12

ALPHA Job #: L1201875

Client Information

Client: URS
Address: 5 Industrial Way, Salem, NH 03079
Phone: (603) 893-0616
Fax:
Email: marilyn.wade@urs.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: IRS-Andover
Project Location: Andover, MA
Project #: 41062464.71
Project Manager: Marilyn Wade
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)
Date Due: 72 HR Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: MA MCP Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All ***CAM*** methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: PCB x 8082

SAMPLE HANDLING
Filtration ☐ Done ☐ Not needed ☐ Lab to do
Preservation ☐ Lab to do (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCB x 8082	Sample Specific Comments	Total # Bottles
0185.1	6L-B-W1/0-3	2.3.12	0820	XI	JKH	1	XI = brick/mortar	1
2	6L-B-W1/3-6	↓	0840	↓	↓	1	↓	1
3	6L-B-W1/6-9	↓	0855	↓	↓	1	↓	1
4	14L-D-EJ/6-9	↓	0945	↓	↓	1	↓	1
5	14L-D-EJ/3-6	↓	1000	↓	↓	1	↓	1
6	14L-D-EJ/0-3	↓	1015	↓	↓	1	↓	1

Container Type: G
Preservative: A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Jeffrey H. Harshman	2/3/12 1140	[illegible]	2/3/12 1140

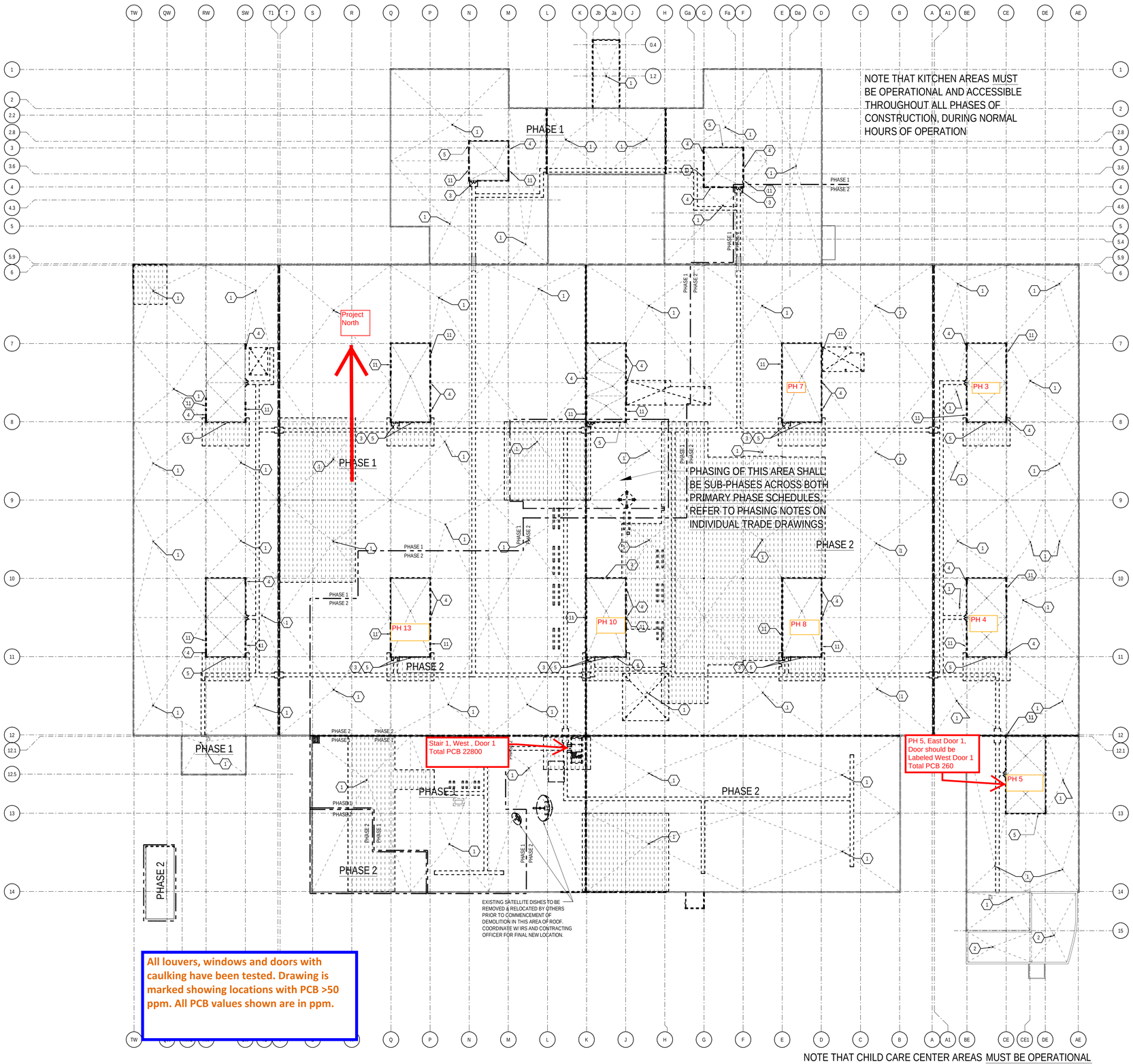
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:02071215:43

Appendix B

Sample Location Plans



All louvers, windows and doors with caulking have been tested. Drawing is marked showing locations with PCB >50 ppm. All PCB values shown are in ppm.

1 OVERALL MAIN ROOF & PENTHOUSE DEMOLITION PLAN
1/32" = 1'-0"

NOTE THAT CHILD CARE CENTER AREAS MUST BE OPERATIONAL AND ACCESSIBLE THROUGHOUT ALL PHASES OF CONSTRUCTION, DURING NORMAL HOURS OF OPERATION

GENERAL DEMOLITION NOTES:

1. ALL WORK PERFORMED ON THIS BUILDING SHALL BE IN COMPLIANCE WITH ALL PERTINENT CODES, RULES, REGULATIONS, AND ORDINANCES OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL GOVERNING AUTHORITIES.

2. USE SUITABLE METHODS TO LIMIT DUST AND DIRT. COMPLY WITH GOVERMENTAL REGULATIONS PERTAINING TO ENVIRONMENTAL AND OTHER PROTECTIONS. CONDUCT OPERATIONS TO PREVENT INJURY TO ALL FACILITIES AND PERSONS.

3. PROMPTLY REPAIR ANY DAMAGES TO FEATURES SCHEDULED TO REMAIN CAUSED BY DEMOLITION OPERATIONS AT NO COST TO OWNER.

4. REFER TO MEP DRAWINGS FOR REMOVALS OF MECHANICAL, ELECTRICAL, PLUMBING, AND LIFE SAFETY SYSTEMS.

5. THE EXACT LIMITS OF DEMOLITION AND REMOVALS SHALL BE DETERMINED FROM THE DRAWINGS RELATIVE TO EACH DISCIPLINE. ITEMS REMOVED OR DISTURBED BEYOND THE LIMITS REQUIRED FOR THE INSTALLATION OF NEW SYSTEMS SHALL BE RESTORED WITHOUT ADDITIONAL COST.

6. SCHEDULE DEMOLITION OF EXTERIOR FEATURES TO COINCIDE WITH DELIVERIES OF REPLACEMENT FEATURES, OR PROVIDE WEATHERTIGHT TEMPORARY ENCLOSURES TO PROVIDE PROTECTION TO OCCUPANTS AND THE BUILDING.

7. UNLESS NOTED OTHERWISE, ITEMS OR SYSTEMS NOTED OR DEPICTED FOR REMOVAL SHALL INCLUDE ALL CUTTING, DISMANTLING, BREAKING UP, RIGGING, HAULING AND LEGAL DISPOSAL OF THE ENTIRE SYSTEM INCLUDING FINISHES, SUPPORTS, REINFORCING, HANGERS, ADHESIVES, SEALANTS AND EMBEDDED ANCHORAGES.

8. CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN ALL SHORING AND BRACING ASSOCIATED WITH THE DEMOLITION WORK.

9. CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IN WRITING OF DISCREPANCIES FOUND ON THE DRAWINGS.

10. CONDUCT OPERATIONS TO PREVENT DAMAGE TO EXISTING FEATURES CONTAINED WITHIN AREAS OF FUTURE PHASES.

11. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND TEMPORARY STORAGE OF EXISTING MATERIALS DESIGNATED TO BE REUSED.

12. REFER TO NEW CONSTRUCTION DRAWINGS FOR ADDITIONAL INFORMATION AT AREAS OF SELECTIVE DEMOLITION.

13. G.C. IS RESPONSIBLE FOR SAWCUT AND REMOVAL OF CONCRETE AND TRENCHING, AT EXISTING SLABS REQUIRED FOR INSTALLATION OF ALL NEW UNDERSLAB UTILITIES, PLUMBING, CONDUITS, ETC. REFER TO PLUMBING, ELECTRICAL, MECHANICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFO.

14. ASBESTOS CONTAINING MATERIAL HAS BEEN IDENTIFIED IN THE BUILDING. REFER TO THE ASBESTOS LOCATIONS PLAN AH 100 AND THE HAZARDOUS MATERIALS REPORT FOR ADDITIONAL INFORMATION.

4

DEMOLITION LEGEND:

- DEMOLISH & DISCARD RAISED FLOOR SYSTEM IN THIS AREA.
- CAREFULLY REMOVE RAISED FLOORING SYSTEM IN THIS AREA, AND TEMPORARILY STORE SUPPORT SYSTEM FOR REUSE IN AREAS NOTED. PANELS TO BE DISCARDED.
- CAREFULLY REMOVE RAISED FLOORING SYSTEM IN THIS AREA, AND TEMPORARILY STORE PANELS & SUPPORT SYSTEM FOR REUSE IN AREAS NOTED.
- CUT OPENING FOR NEW ROOF FEATURE. REFER TO ROOF PLAN & STRUCTURAL DWGS FOR MORE INFORMATION.
- CUT OPENING IN EXISTING SLAB FOR NEW FEATURE. REFER TO FLOOR PLANS & STRUCTURAL DWGS FOR MORE INFORMATION.
- PARTITIONS TO BE DEMOLISHED.
- WINDOW AND FRAMES TO BE DEMOLISHED.
- DOOR(S) AND FRAME TO BE DEMOLISHED.
- EXISTING SUSPENDED CEILING AND SUPPORTS TO BE REMOVED. REMOVE BACK TO LOCATION OF ATTACHMENT ALL ASSOCIATED HANGERS, FRAMING, BLOCKING, ETC.

KEYNOTES FOR DEMOLITION:

KEYNOTE NUMBER	DESCRIPTION
1	REMOVE EXISTING ROOF DRAIN. REFER TO PLUMBING DWGS FOR ADDITIONAL INFORMATION.
2	EXISTING ROOF DRAIN TO REMAIN.
3	EXISTING PENTHOUSE DOOR(S) AND FRAME TO BE REMOVED. REFER TO ROOF PLAN FOR NEW LOCATION OF NEW DOORS.
4	REMOVE EXISTING MECHANICAL LOUVER. REFER TO ROOF PLAN FOR LOCATION OF NEW LOUVER.
5	REMOVE ALL EXISTING METAL SIDING ON EXISTING MECHANICAL PENTHOUSES.
6	NOT USED.
7	REFER TO ENLARGED ARCHITECTURAL PLANS & RCPS FOR EXTENT OF RECONFIGURED TOILET ROOMS.
8	NOT USED.
9	EXISTING MEZZANINE, STAIRS AND ALL ASSOCIATED SUPPORT STRUCTURE TO BE REMOVED.
10	EXISTING LOADING DOCK RETAINING WALLS & RAMP TO BE REMOVED. SEE CIVIL DWG C-100 FOR MORE INFO.
11	CUT OPENING FOR NEW LOUVERS. REFER TO ROOF PLAN, MECH DWGS, & CIVIL, STRUCT DWGS FOR MORE INFO. SEE AE-603 FOR NEW LOUVER TYPES.
12	CAREFULLY REMOVE AND STORE FOR RE-INSTALLATION, THE EXISTING PLAYGROUND EQUIPMENT, FENCING AND RELATED MATERIALS. REFER TO PLANS FOR NEW LOCATION.

MAIN ROOF & PENTHOUSE DEMOLITION NOTES:

1. REMOVE EXISTING BALLAST, ROOF MEMBRANE, INSULATION & ROOF COPING AT ALL ROOFING LOCATIONS, INCLUDING PENTHOUSES, UNLESS NOTED OTHERWISE. REFER TO OTHER DEMOLITION DWGS., FLOOR PLANS, ELEVATIONS & DETAILS FOR AREAS & ITEMS TO BE SELECTIVELY DEMOLISHED.

2. REMOVE ALL EXISTING ROOF WALKWAY PAVERS.

3. REMOVE ALL UNUSED MECHANICAL EQUIPMENT SUPPORTS AND PLATFORMS. REFER TO MECHANICAL DWGS FOR MORE INFORMATION.

4. REMOVE EXISTING METAL SIDING ON ALL EXISTING MECHANICAL PENTHOUSES.

5. REMOVE EXISTING LIGHTNING PROTECTION SYSTEM. EXISTING LEADS WHICH ARE CONCEALED WITHIN BUILDING SHALL BE REUSED TO THE EXTENT FEASIBLE. PROVIDE ADDITIONAL NEW LEADS AS REQUIRED TO CREATE A COMPLETE NEW SYSTEM. REFER TO ELECTRICAL SPECIFICATION SECT. 26 4113 LIGHTNING PROTECTION FOR MORE INFORMATION ON NEW LIGHTING PROTECTION SYSTEM REQUIREMENTS.

GSA
GENERAL SERVICES ADMINISTRATION
10 CAUSEWAY STREET
BOSTON, MA

Jonathan Levi Architects
266 beacon street
boston ma 02116
tel 617 437 9458
fax 617 437 1965

JLA

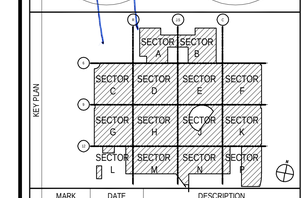
BURT, HILL
ARCHITECTURE ENGINEERING INTERIOR DESIGN LANDSCAPE MASTER PLANNING
303 CONGRESS STREET 6TH FLOOR
BOSTON, MA 02210
TEL: 617 423 4252
FAX: 617 423 4333
BOSTON, MA
BUTLER, PA
CLEVELAND, OH
DUBAI, UAE
PHILADELPHIA,PA
PITTSBURGH,PA
WASHINGTON, DC
b&h

© 2009 Burt Hill Inc.

CERTIFICATIONS

REGISTERED ARCHITECT JONATHAN LEVI No. 6192 COMMONWEALTH OF MASSACHUSETTS

KEY PLAN



REVISION NOTES

MARK	DATE	DESCRIPTION
4	05-26-2009	REVISION #4

GRAPHIC SCALE

CONTRACTORS

A/E CON. NO.	GS-01P-06-BZ-C-0005
A/E TASK NO.	X-00-00-XX-0000
CONS. CONTR.	XX-00X-00-XXX-0000
CONS. WORK	X-00-00-XX-0000
PRIME A/E	JONATHAN LEVI ARCHITECTS
SUB A/E	BURT HILL, INC.
CONSTR. CON.	XXXXXXXXXXX

BUILDING

NAME	IRS SERVICE CENTER		
STREET	310 LOWELL STREET		
CITY/ST./ZIP	ANDOVER	MA	01810
BUILDING NO.	MA 0137 ZZ		
OTHER	XX0000XX	XX0000XX	XX0000XX
BUILDING NOs.	XX0000XX	XX0000XX	XX0000XX
FACILITY CODE	XXXX		

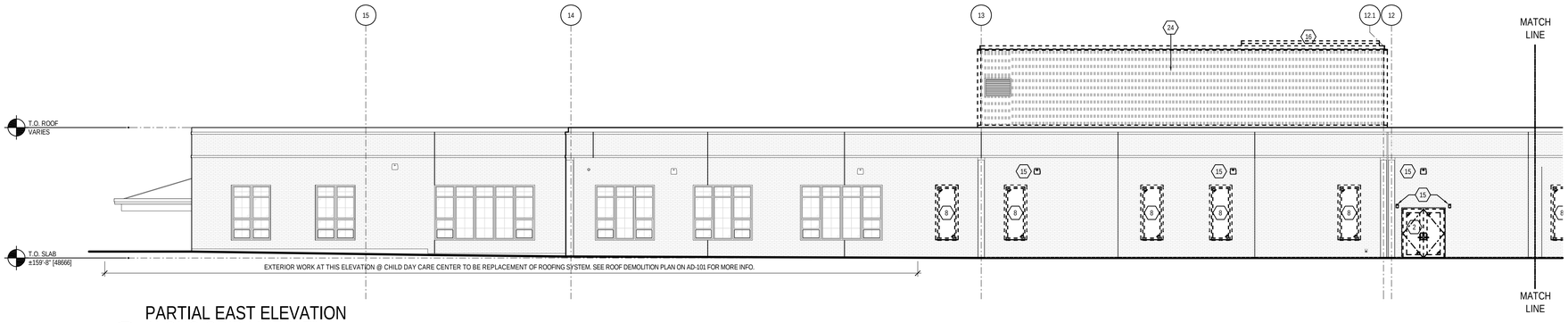
PROJECT

PROJECT TITLE	MODERNIZATION TO ANDOVER IRS SERVICE CENTER
PROJECT DESCRIPTION	IRS SERVICE CENTER, ANDOVER, MA
PROJECT NO.	SMA00217
GSA PM	BRIAN WONG
SUBMISSION	BID DOCUMENTS
SUB. DATE	MAY 1, 2009

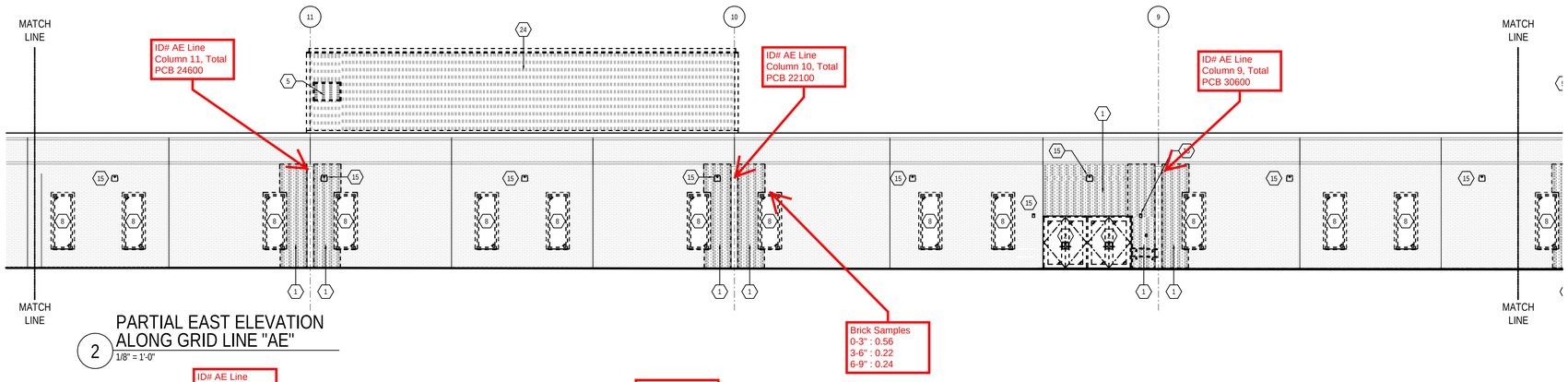
DRAWING

DRAWING TITLE	OVERALL MAIN ROOF & PENTHOUSE DEMOLITION PLAN		
FILE NAME	AD-101-SMA00217.DWG		
FLOOR NO.	01		
DRAWN BY	XXX	DATE DRAFTED:	12/11/06
CHECKED BY	XXX	SHEET SIZE:	30 X 42
DRAWING NO.	AD	1	01
	DISCIPLINE	SHEET TYPE	SEQUENCE
	SHEET	X	OF XXX

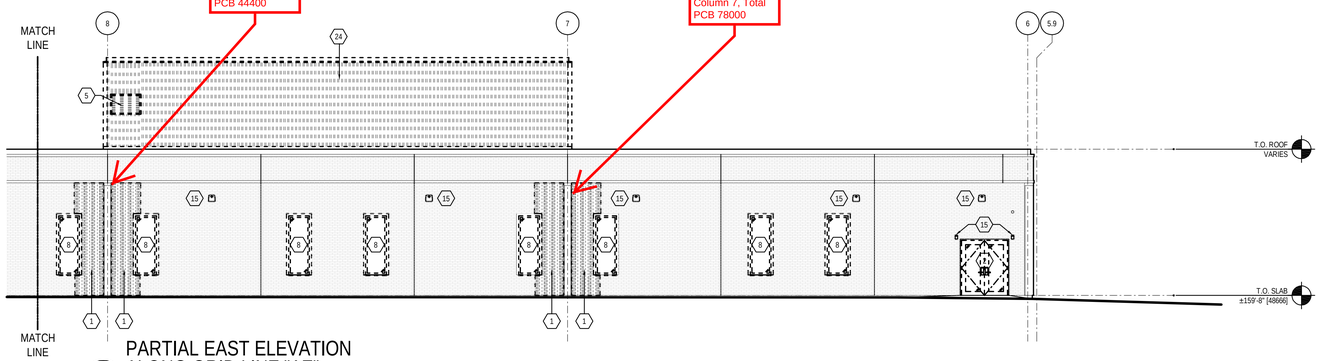
PROPERTY OF THE UNITED STATES GOVERNMENT - FOR OFFICIAL USE ONLY. DO NOT REMOVE THIS NOTICE. PROPERLY DESTROY DOCUMENTS WHEN NO LONGER NEEDED.



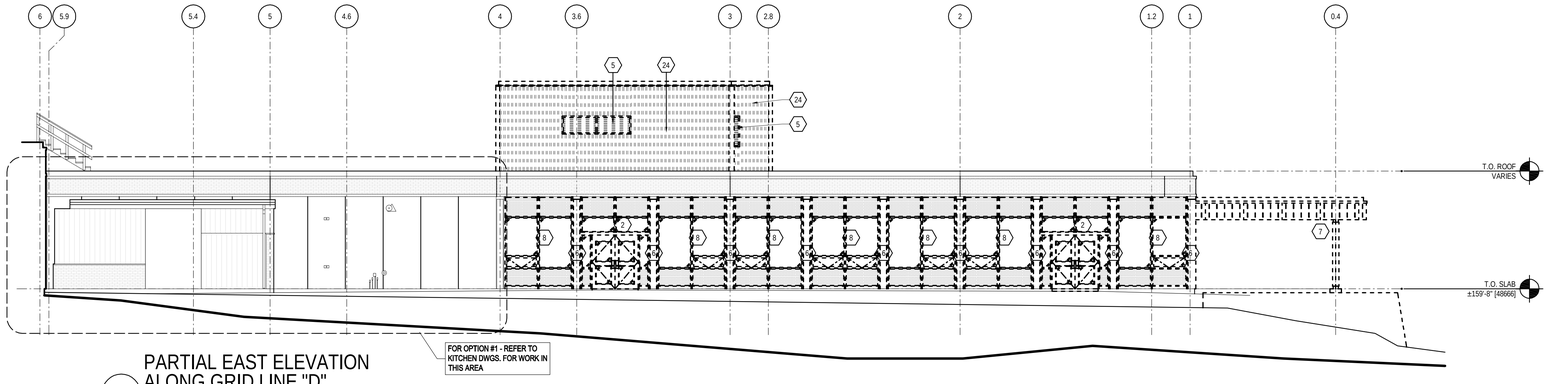
1 PARTIAL EAST ELEVATION ALONG GRID LINE "AE"
1/8" = 1'-0"



2 PARTIAL EAST ELEVATION ALONG GRID LINE "AE"
1/8" = 1'-0"



3 PARTIAL EAST ELEVATION ALONG GRID LINE "AE"
1/8" = 1'-0"



4 PARTIAL EAST ELEVATION ALONG GRID LINE "D"
1/8" = 1'-0"

All louvers, windows and doors with caulking have been tested. Drawing is marked showing locations with PCB > 50 ppm. All PCB values shown are in ppm.

DEMOLITION ELEVATIONS - GENERAL NOTES:

1. REFER TO ARCHITECTURAL SPECIFICATIONS AND MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, STRUCTURAL, CIVIL, AND LANDSCAPING DRAWINGS AND SPECIFICATIONS FOR OTHER DEMOLITION REQUIREMENTS.

KEYNOTE LEGEND:

1. REMOVE EXISTING EXTERIOR BRICK & BACK UP WALL SYSTEM
2. REMOVE EXISTING STOREFRONT DOOR & WINDOW SYSTEM
3. REMOVE EXISTING ELECTRICAL CONDUIT & ALL ASSOCIATED SUPPORTS - SEE ELECT. DWGS. FOR ADDITIONAL REQMNTS
4. REMOVE EXISTING HOLLOW METAL DOOR(S) & FRAME
5. REMOVE MECHANICAL LOUVERS
6. REMOVE EXISTING PRECAST PANEL
7. REMOVE EXISTING CANOPY & FRAMING
8. REMOVE EXISTING WINDOW SYSTEM
9. REMOVE EXISTING CONCRETE RETAINING WALL
10. REMOVE EXISTING CONCRETE FOUNDATION WALLS
11. REMOVE EXISTING STONE BOLLARDS
12. REMOVE EXISTING METAL FENCE SYSTEM
13. REMOVE EXISTING METAL GARAGE DOOR FRAMES
14. REMOVE EXISTING METAL PANEL SYSTEMS AND ASSOCIATED FRAMING
15. REMOVE EXISTING WALL MOUNTED LIGHT - COORDINATE W/ ELECT. REQUIREMENTS
16. REMOVE EXISTING STAIR HEAD HOUSE, METAL PANELS & CMU BACK UP WALLS, & ROOF
17. REMOVE EXISTING METAL STAIR, PLATFORM, & RAILINGS
18. COMPLETELY REMOVE EXISTING VESTIBULE, DOORS, ROOF & FRAMING
19. REMOVE EXISTING CONCRETE STAIRS & METAL RAILINGS
20. REMOVE EXISTING CONCRETE RAMP & METAL RAILINGS
21. REMOVE EXISTING METAL RAILINGS
22. REMOVE EXISTING GAS PIPING & ALL ASSOCIATED SUPPORTS - COORDINATE W/ M.E.P. REQUIREMENTS
23. REMOVE EXISTING COOLING TOWER - COORDINATE W/ MECH. REQUIREMENTS
24. REMOVE EXISTING CORRUGATED METAL WALL FINISH
25. RELOCATE SIAMESE CONNECTION & ALL ASSOCIATED PIPING - SEE F.P. DWGS.
26. CUT OPENING IN EXISTING BRICK AND BACK-UP WALL SYSTEM FOR NEW DOOR(S)
27. CUT OPENING FOR NEW MECHANICAL LOUVER(S).
28. REMOVE EXISTING CHIMNEY & FLUE
29. CUT OPENING IN EXISTING BRICK AND BACK-UP WALL SYSTEM FOR NEW FUEL OIL FILL BOX
30. REMOVE EXISTING GUTTER AND DOWNSPOUT

GSA
GENERAL SERVICES ADMINISTRATION
10 CAUSEWAY STREET
BOSTON, MA

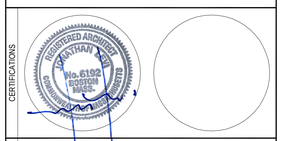
Jonathan Levi Architects
266 beacon street
boston ma 02116
tel 617 437 9458
fax 617 437 1965

JLA

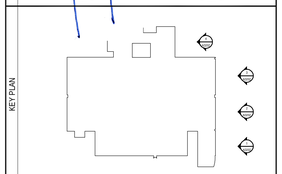
BURT, HILL
ARCHITECTURE ENGINEERING INTERIOR DESIGN LANDSCAPE MASTER PLANNING
303 CONGRESS STREET 6TH FLOOR
BOSTON, MA 02210
TEL: 617 423 4252
FAX: 617 423 4333
BOSTON, MA
BUTLER, PA
CLEVELAND, OH
DUBAI, UAE
PHILADELPHIA,PA
PITTSBURGH,PA
WASHINGTON, DC
b&h

© 2009 Burt Hill Inc.

CERTIFICATIONS



KEY PLAN



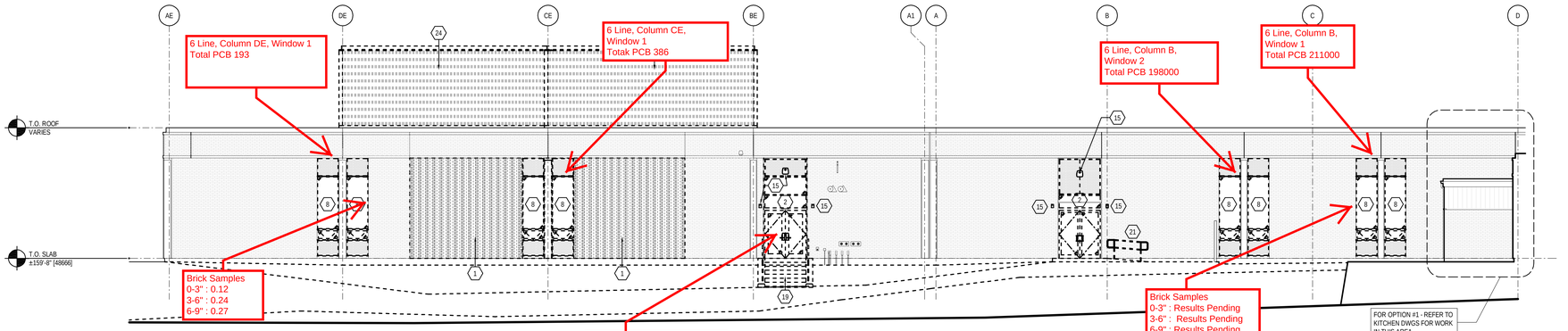
REVISION NOTES

MARK	DATE	DESCRIPTION

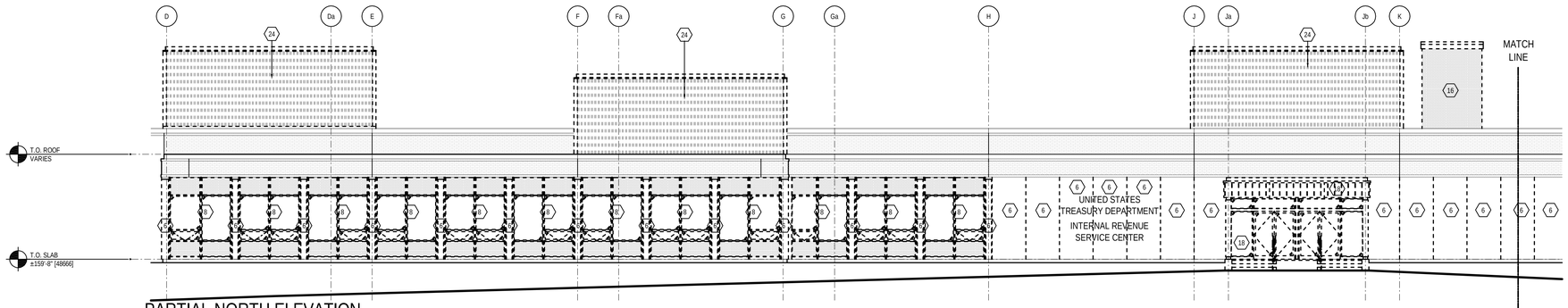
GRAPHIC SCALE

CONTRACTORS	A/E CON. NO.	GS-01P-06-BZ-C-0005	
	A/E TASK NO.	X-00-00-XX-0000	
	CONS. CONTR.	XX-00X-00-XXX-0000	
	CONS. WORK	X-00-00-XX-0000	
	PRIME A/E	JONATHAN LEVI ARCHITECTS	
	SUB A/E	BURT HILL, INC.	
	CONSTR. CON.	XXXXXXXXXXX	
BUILDING	NAME	IRS SERVICE CENTER	
	STREET	310 LOWELL STREET	
	CITY/ST./ZIP	ANDOVER	MA 01810
	BUILDING NO.	MA 0137 ZZ	
	OTHER	XX0000XX XX0000XX	XX0000XX
	BUILDING NOs.	XX0000XX XX0000XX	XX0000XX
	FACILITY CODE	XXXX	
PROJECT	PROJECT TITLE	MODERNIZATION TO ANDOVER IRS SERVICE CENTER	
	PROJECT DESCRIPTION	IRS SERVICE CENTER, ANDOVER, MA	
	PROJECT NO.	SMA00217	
	GSA PM	BRIAN WONG	
	SUBMISSION	BID DOCUMENTS	
	SUB. DATE	MAY 1, 2009	
DRAWING	DRAWING TITLE	EXTERIOR DEMOLITION ELEVATIONS - EAST	
	FILE NAME	AD-202-SMA00217.DWG	
	FLOOR NO.	01	
	DRAWN BY	XXX	DATE DRAFTED: 08/31/07
	CHECKED BY	XXX	SHEET SIZE: 30 X 42
	DRAWING NO.	AD 2 02	
		DISCIPLINE SHEET	SHEET TYPE X OF SEQUENCE XXX

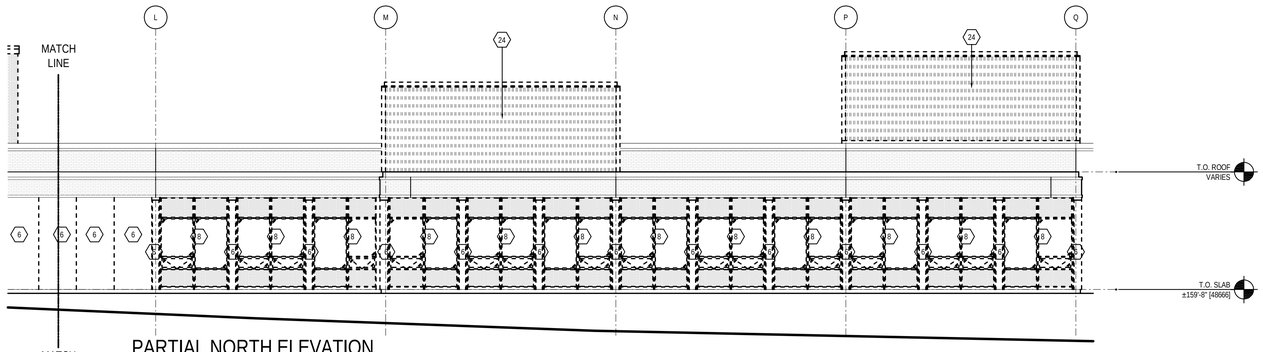
PROPERTY OF THE UNITED STATES GOVERNMENT - FOR OFFICIAL USE ONLY. DO NOT REMOVE THIS NOTICE. PROPERLY DESTROY DOCUMENTS WHEN NO LONGER NEEDED.



1 PARTIAL NORTH ELEVATION ALONG GRID LINE 6
1/8" = 1'-0"

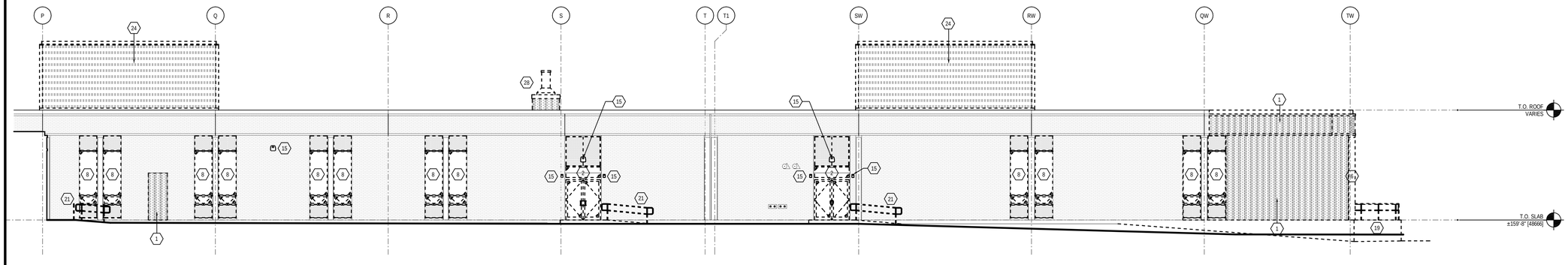


2 PARTIAL NORTH ELEVATION ALONG GRID LINES 1&2
1/8" = 1'-0"



3 PARTIAL NORTH ELEVATION ALONG GRID LINES 1&2
1/8" = 1'-0"

All louvers, windows and doors with caulking have been tested. Drawing is marked showing locations with PCB >50 ppm. All PCB values shown are in ppm.



4 PARTIAL NORTH ELEVATION ALONG GRID LINE 6
1/8" = 1'-0"

DEMOLITION ELEVATIONS - GENERAL NOTES:

1. REFER TO ARCHITECTURAL SPECIFICATIONS AND MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, STRUCTURAL, CIVIL, AND LANDSCAPING DRAWINGS AND SPECIFICATIONS FOR OTHER DEMOLITION REQUIREMENTS.

KEYNOTE LEGEND:

1. REMOVE EXISTING EXTERIOR BRICK & BACK UP WALL SYSTEM
2. REMOVE EXISTING STOREFRONT DOOR & WINDOW SYSTEM
3. REMOVE EXISTING ELECTRICAL CONDUIT & ALL ASSOCIATED SUPPORTS - SEE ELECT. DWGS. FOR ADDITIONAL REQMNTS
4. REMOVE EXISTING HOLLOW METAL DOOR(S) & FRAME
5. REMOVE MECHANICAL LOUVERS
6. REMOVE EXISTING PRECAST PANEL
7. REMOVE EXISTING CANOPY & FRAMING
8. REMOVE EXISTING WINDOW SYSTEM
9. REMOVE EXISTING CONCRETE RETAINING WALL
10. REMOVE EXISTING CONCRETE FOUNDATION WALLS
11. REMOVE EXISTING STONE BOLLARDS
12. REMOVE EXISTING METAL FENCE SYSTEM
13. REMOVE EXISTING METAL GARAGE DOOR FRAMES
14. REMOVE EXISTING METAL PANEL SYSTEMS AND ASSOCIATED FRAMING
15. REMOVE EXISTING WALL MOUNTED LIGHT - COORDINATE W/ ELECT. REQUIREMENTS
16. REMOVE EXISTING STAIR HEAD HOUSE, METAL PANELS & CMU BACK UP WALLS, & ROOF
17. REMOVE EXISTING METAL STAIR, PLATFORM, & RAILINGS
18. COMPLETELY REMOVE EXISTING VESTIBULE, DOORS, ROOF & FRAMING
19. REMOVE EXISTING CONCRETE STAIRS & METAL RAILINGS
20. REMOVE EXISTING CONCRETE RAMP & METAL RAILINGS
21. REMOVE EXISTING METAL RAILINGS
22. REMOVE EXISTING GAS PIPING & ALL ASSOCIATED SUPPORTS - COORDINATE W/ M.E.P. REQUIREMENTS
23. REMOVE EXISTING COOLING TOWER - COORDINATE W/ MECH. REQUIREMENTS
24. REMOVE EXISTING CORRUGATED METAL WALL FINISH
25. RELOCATE SIAMESE CONNECTION & ALL ASSOCIATED PIPING - SEE F.P. DWGS.
26. CUT OPENING IN EXISTING BRICK AND BACK-UP WALL SYSTEM FOR NEW DOOR(S)
27. CUT OPENING FOR NEW MECHANICAL LOUVER(S).
28. REMOVE EXISTING CHIMNEY & FLUE
29. CUT OPENING IN EXISTING BRICK AND BACK-UP WALL SYSTEM FOR NEW FUEL OIL FILL BOX
30. REMOVE EXISTING GUTTER AND DOWNSPOUT

GSA
GENERAL SERVICES ADMINISTRATION
10 CAUSEWAY STREET
BOSTON, MA

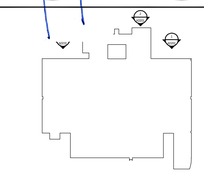
Jonathan Levi Architects
266 beacon street
boston ma 02116
tel 617 437 9458
fax 617 437 1965
JLA

BURT, HILL
ARCHITECTURE ENGINEERING INTERIOR DESIGN LANDSCAPE MASTER PLANNING
303 CONGRESS STREET 6TH FLOOR
BOSTON, MA 02210
TEL: 617 423 4252
FAX: 617 423 4333
BOSTON, MA
BUTLER, PA
CLEVELAND, OH
DUBAI, UAE
PHILADELPHIA,PA
PITTSBURGH,PA
WASHINGTON, DC
b&h

© 2009 Burt Hill Inc.

CERTIFICATIONS

KEY PLAN



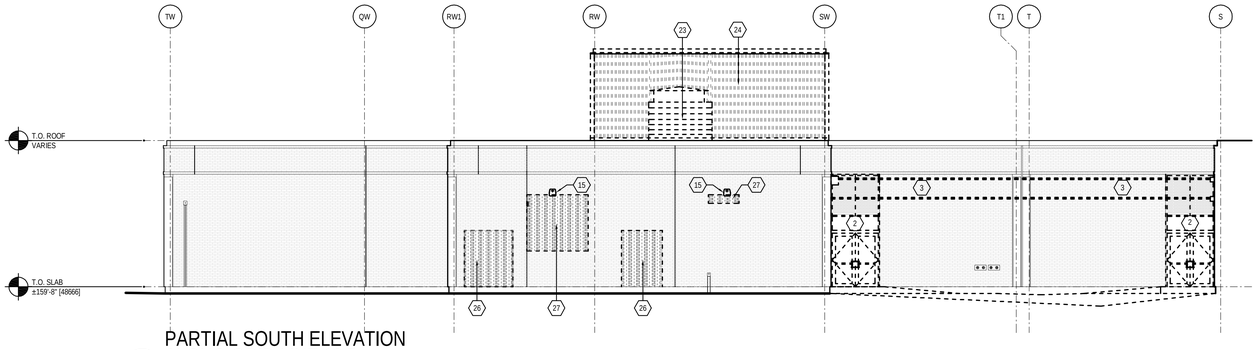
REVISION NOTES

MARK	DATE	DESCRIPTION

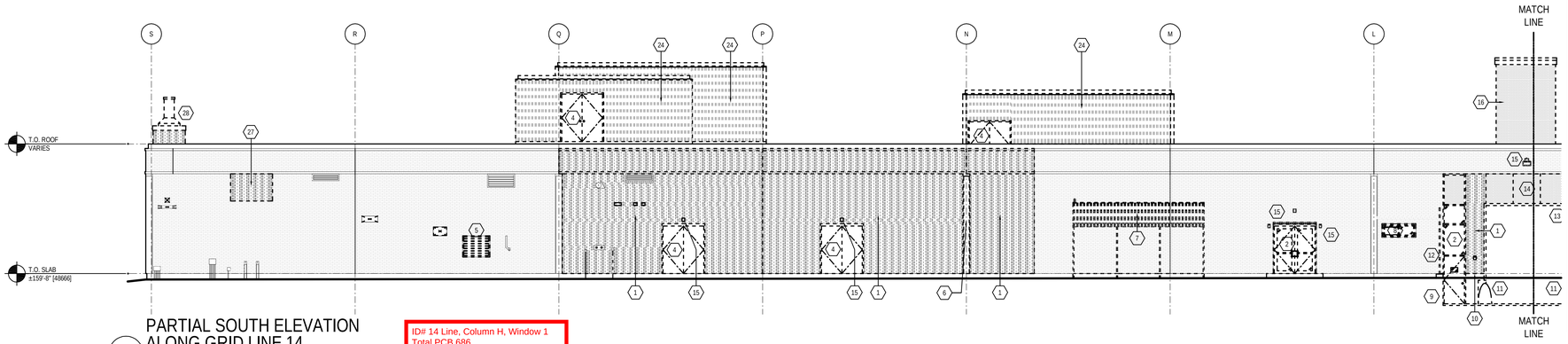
GRAPHIC SCALE

CONTRACTORS	A/E CON. NO.	GS-01P-06-BZ-C-0005	
	A/E TASK NO.	X-00-00-XX-0000	
	CONS. CONTR.	XX-00X-00-XXX-0000	
	CONS. WORK	X-00-00-XX-0000	
	PRIME A/E	JONATHAN LEVI ARCHITECTS	
	SUB A/E	BURT HILL, INC.	
	CONSTR. CON.	XXXXXXXXXXX	
BUILDING	NAME	IRS SERVICE CENTER	
	STREET	310 LOWELL STREET	
	CITY/ST./ZIP	ANDOVER	MA 01810
	BUILDING NO.	MA 0137 ZZ	
	OTHER	XX0000XX XX0000XX	XX0000XX
	BUILDING NOs.	XX0000XX XX0000XX	XX0000XX
	FACILITY CODE	XXXX	
PROJECT	PROJECT TITLE	MODERNIZATION TO ANDOVER IRS SERVICE CENTER	
	PROJECT DESCRIPTION	IRS SERVICE CENTER, ANDOVER, MA	
	PROJECT NO.	SMA00217	
	GSA PM	BRIAN WONG	
	SUBMISSION	BID DOCUMENTS	
	SUB. DATE	MAY 1, 2009	
DRAWING	DRAWING TITLE	EXTERIOR DEMOLITION ELEVATIONS - NORTH	
	FILE NAME	AD-201-SMA00217.DWG	
	FLOOR NO.	01	
	DRAWN BY	XXX	DATE DRAFTED: 08/31/07
	CHECKED BY	XXX	SHEET SIZE: 30 X 42
	DRAWING NO.	AD 2 01	
		DISCIPLINE SHEET TYPE SEQUENCE	
		SHEET X OF XXX	

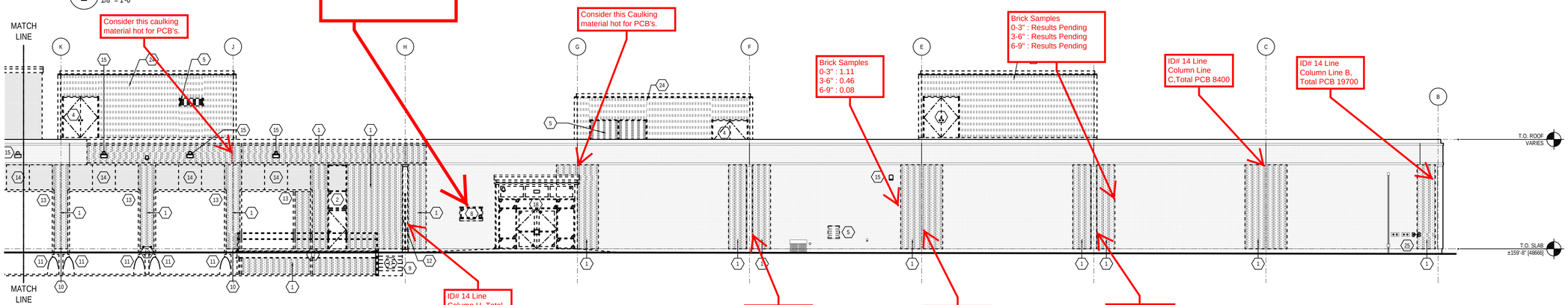
PROPERTY OF THE UNITED STATES GOVERNMENT - FOR OFFICIAL USE ONLY. DO NOT REMOVE THIS NOTICE. PROPERLY DESTROY DOCUMENTS WHEN NO LONGER NEEDED.



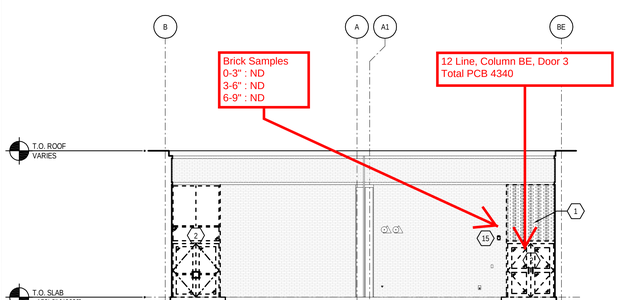
1 PARTIAL SOUTH ELEVATION ALONG GRID LINE 12.5
1/8" = 1'-0"



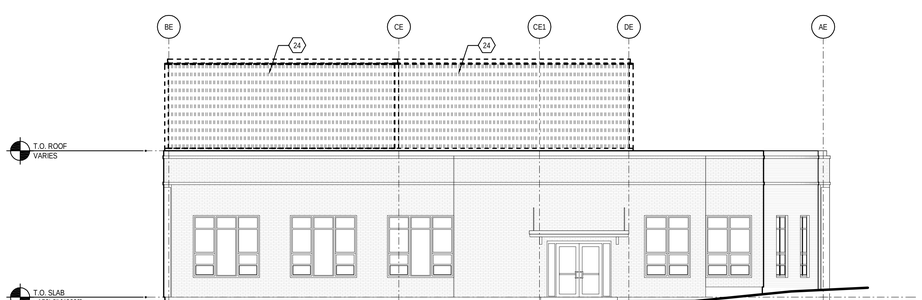
2 PARTIAL SOUTH ELEVATION ALONG GRID LINE 14
1/8" = 1'-0"



3 PARTIAL SOUTH ELEVATION ALONG GRID LINE 14
1/8" = 1'-0"

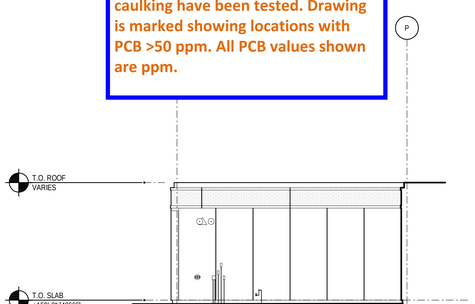


4 PARTIAL SOUTH ELEVATION ALONG GRID LINE 12
1/8" = 1'-0"



5 PARTIAL SOUTH ELEVATION NEAR GRID LINE 15
1/8" = 1'-0"

All louvers, windows and doors with caulking have been tested. Drawing is marked showing locations with PCB >50 ppm. All PCB values shown are ppm.



6 PARTIAL SOUTH ELEVATION ALONG GRID LINE 5
1/8" = 1'-0"

DEMOLITION ELEVATIONS - GENERAL NOTES:

1. REFER TO ARCHITECTURAL SPECIFICATIONS AND MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, STRUCTURAL, CIVIL, AND LANDSCAPING DRAWINGS AND SPECIFICATIONS FOR OTHER DEMOLITION REQUIREMENTS.

KEYNOTE LEGEND:

1. REMOVE EXISTING EXTERIOR BRICK & BACK UP WALL SYSTEM
2. REMOVE EXISTING STOREFRONT DOOR & WINDOW SYSTEM
3. REMOVE EXISTING ELECTRICAL CONDUIT & ALL ASSOCIATED SUPPORTS - SEE ELECT. DWGS. FOR ADDITIONAL REQMNTS
4. REMOVE EXISTING HOLLOW METAL DOOR(S) & FRAME
5. REMOVE MECHANICAL LOUVERS
6. REMOVE EXISTING PRECAST PANEL
7. REMOVE EXISTING CANOPY & FRAMING
8. REMOVE EXISTING WINDOW SYSTEM
9. REMOVE EXISTING CONCRETE RETAINING WALL
10. REMOVE EXISTING CONCRETE FOUNDATION WALLS
11. REMOVE EXISTING STONE BOLLARDS
12. REMOVE EXISTING METAL FENCE SYSTEM
13. REMOVE EXISTING METAL GARAGE DOOR FRAMES
14. REMOVE EXISTING METAL PANEL SYSTEMS AND ASSOCIATED FRAMING
15. REMOVE EXISTING WALL MOUNTED LIGHT - COORDINATE W/ ELECT. REQUIREMENTS
16. REMOVE EXISTING STAIR HEAD HOUSE, METAL PANELS & CMU BACK UP WALLS, & ROOF
17. REMOVE EXISTING METAL STAIR, PLATFORM, & RAILINGS
18. COMPLETELY REMOVE EXISTING VESTIBULE, DOORS, ROOF & FRAMING
19. REMOVE EXISTING CONCRETE STAIRS & METAL RAILINGS
20. REMOVE EXISTING CONCRETE RAMP & METAL RAILINGS
21. REMOVE EXISTING METAL RAILINGS
22. REMOVE EXISTING GAS PIPING & ALL ASSOCIATED SUPPORTS - COORDINATE W/ M.E.P. REQUIREMENTS
23. REMOVE EXISTING COOLING TOWER - COORDINATE W/ MECH. REQUIREMENTS
24. REMOVE EXISTING CORRUGATED METAL WALL FINISH
25. RELOCATE SIAMESE CONNECTION & ALL ASSOCIATED PIPING - SEE F.P. DWGS.
26. CUT OPENING IN EXISTING BRICK AND BACK-UP WALL SYSTEM FOR NEW DOOR(S)
27. CUT OPENING FOR NEW MECHANICAL LOUVER(S).
28. REMOVE EXISTING CHIMNEY & FLUE
29. CUT OPENING IN EXISTING BRICK AND BACK-UP WALL SYSTEM FOR NEW FUEL OIL FILL BOX
30. REMOVE EXISTING GUTTER AND DOWNSPOUT

GSA
GENERAL SERVICES ADMINISTRATION
10 CAUSEWAY STREET
BOSTON, MA

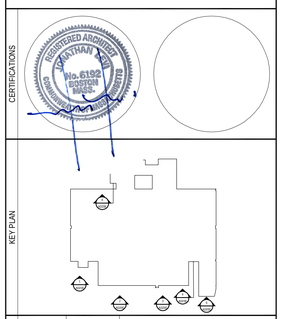
Jonathan Levi Architects
266 beacon street
boston ma 02116
tel 617 437 9458
fax 617 437 1965

JLA

BURT, HILL
ARCHITECTURE ENGINEERING INTERIOR DESIGN LANDSCAPE MASTER PLANNING
303 CONGRESS STREET 6TH FLOOR
BOSTON, MA 02210
TEL: 617 423 4252
FAX: 617 423 4333
BOSTON, MA
BUTLER, PA
CLEVELAND, OH
DUBAI, UAE
PHILADELPHIA,PA
PITTSBURGH,PA
WASHINGTON, DC

© 2009 Burt Hill Inc.

CERTIFICATIONS



KEY PLAN

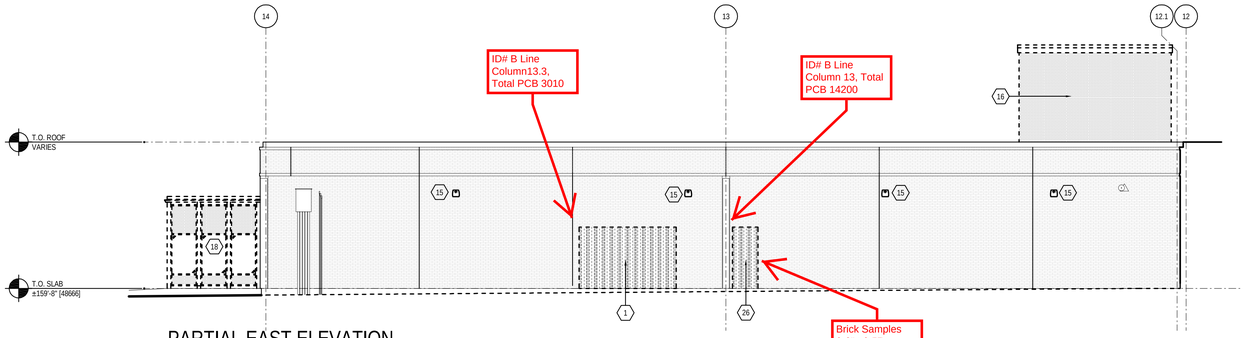
REVISION NOTES

MARK	DATE	DESCRIPTION

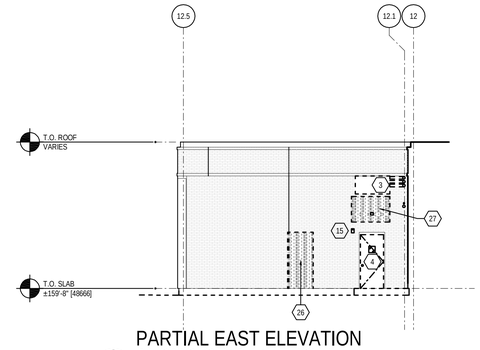
GRAPHIC SCALE

CONTRACTORS	A/E CON. NO.	GS-01P-06-BZ-C-0005
	A/E TASK NO.	X-00-00-XX-0000
	CONS. CONTR.	XX-00X-00-XXX-0000
	CONS. WORK	X-00-00-XX-0000
	PRIME A/E	JONATHAN LEVI ARCHITECTS
	SUB A/E	BURT HILL, INC.
	CONSTR. CON.	XXXXXXXXXXX
BUILDING	NAME	IRS SERVICE CENTER
	STREET	310 LOWELL STREET
	CITY/ST./ZIP	ANDOVER MA 01810
	BUILDING NO.	MA 0137 ZZ
	OTHER	XX0000XX XX0000XX XX0000XX
	BUILDING NOs.	XX0000XX XX0000XX XX0000XX
	FACILITY CODE	XXXX
PROJECT	PROJECT TITLE	MODERNIZATION TO ANDOVER IRS SERVICE CENTER
	PROJECT DESCRIPTION	IRS SERVICE CENTER, ANDOVER, MA
	PROJECT NO.	SMA00217
	GSA PM	BRIAN WONG
	SUBMISSION	BID DOCUMENTS
	SUB. DATE	MAY 1, 2009
DRAWING	DRAWING TITLE	EXTERIOR DEMOLITION ELEVATIONS - SOUTH
	FILE NAME	AD-200-SMA00217.DWG
	FLOOR NO.	01
	DRAWN BY	XXX DATE DRAFTED: 08/31/07
	CHECKED BY	XXX SHEET SIZE: 30 X 42
	DRAWING NO.	AD 2 00 (DISCIPLINE / SHEET TYPE / SEQUENCE)
		SHEET X OF XXX

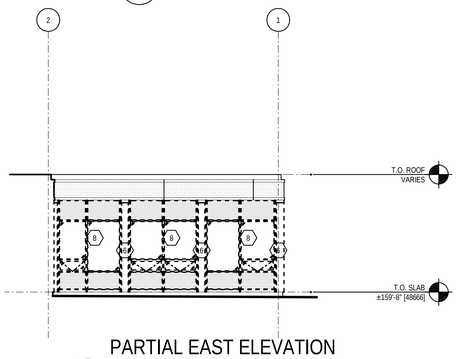
PROPERTY OF THE UNITED STATES GOVERNMENT - FOR OFFICIAL USE ONLY. DO NOT REMOVE THIS NOTICE. PROPERLY DESTROY DOCUMENTS WHEN NO LONGER NEEDED.



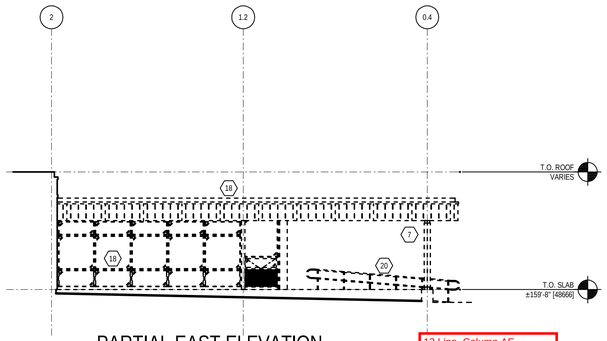
1 PARTIAL EAST ELEVATION ALONG GRID LINE "B"
1/8" = 1'-0"



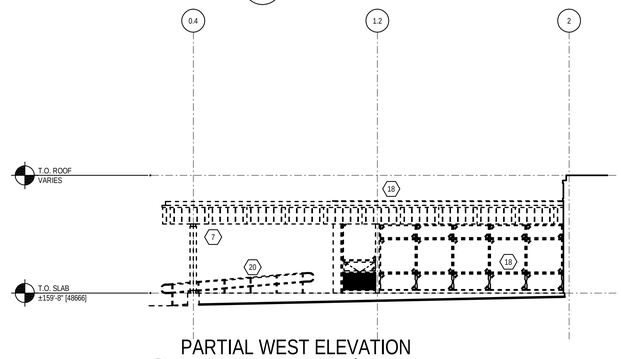
2 PARTIAL EAST ELEVATION ALONG GRID LINE "SW"
1/8" = 1'-0"



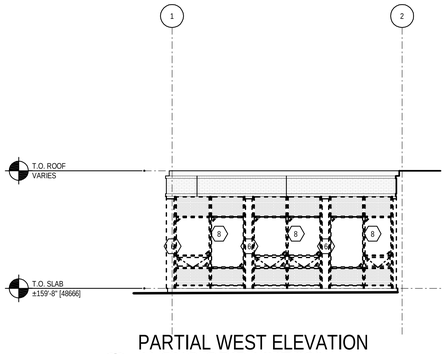
3 PARTIAL EAST ELEVATION ALONG GRID LINE "M"
1/8" = 1'-0"



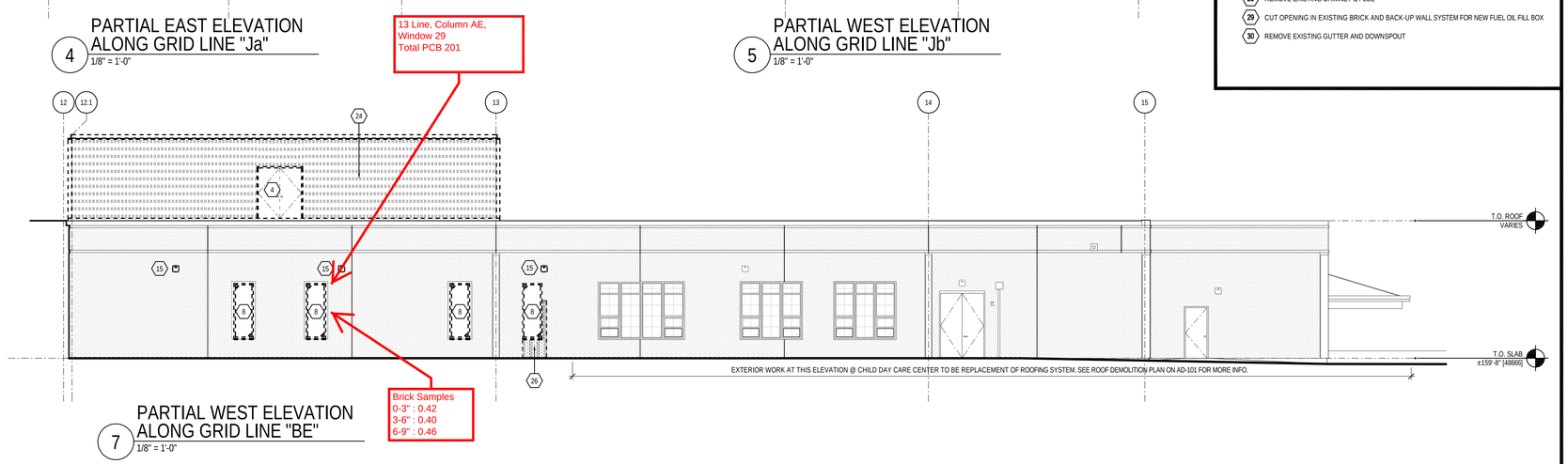
4 PARTIAL EAST ELEVATION ALONG GRID LINE "Ja"
1/8" = 1'-0"



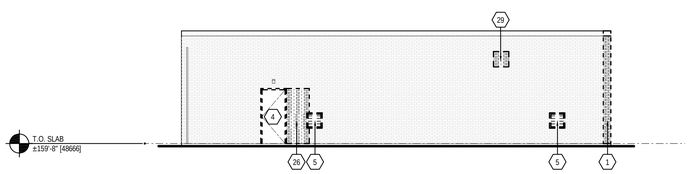
5 PARTIAL WEST ELEVATION ALONG GRID LINE "Jb"
1/8" = 1'-0"



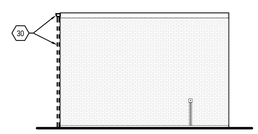
6 PARTIAL WEST ELEVATION ALONG GRID LINE "G"
1/8" = 1'-0"



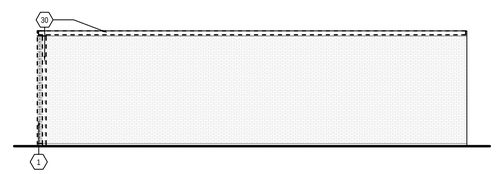
7 PARTIAL WEST ELEVATION ALONG GRID LINE "BE"
1/8" = 1'-0"



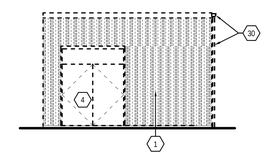
8 EXISTING STORAGE BUILDING ELEVATION - EAST
1/8" = 1'-0"



9 EXISTING STORAGE BUILDING ELEVATION - SOUTH
1/8" = 1'-0"



10 EXISTING STORAGE BUILDING ELEVATION - WEST
1/8" = 1'-0"



11 EXISTING STORAGE BUILDING ELEVATION - NORTH
1/8" = 1'-0"

All louvers, windows and doors with caulking have been tested. Drawing is marked showing locations with PCB > 50 ppm. All values shown are in ppm.

DEMOLITION ELEVATIONS - GENERAL NOTES:

1. REFER TO ARCHITECTURAL SPECIFICATIONS AND MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, STRUCTURAL, CIVIL, AND LANDSCAPING DRAWINGS AND SPECIFICATIONS FOR OTHER DEMOLITION REQUIREMENTS.

KEYNOTE LEGEND:

1. REMOVE EXISTING EXTERIOR BRICK & BACK UP WALL SYSTEM
2. REMOVE EXISTING STOREFRONT DOOR & WINDOW SYSTEM
3. REMOVE EXISTING ELECTRICAL CONDUIT & ALL ASSOCIATED SUPPORTS - SEE ELECT. DWGS. FOR ADDITIONAL REQMNTS
4. REMOVE EXISTING HOLLOW METAL DOOR(S) & FRAME
5. REMOVE MECHANICAL LOUVERS
6. REMOVE EXISTING PRECAST PANEL
7. REMOVE EXISTING CANOPY & FRAMING
8. REMOVE EXISTING WINDOW SYSTEM
9. REMOVE EXISTING CONCRETE RETAINING WALL
10. REMOVE EXISTING CONCRETE FOUNDATION WALLS
11. REMOVE EXISTING STONE BOLLARDS
12. REMOVE EXISTING METAL FENCE SYSTEM
13. REMOVE EXISTING METAL GARAGE DOOR FRAMES
14. REMOVE EXISTING METAL PANEL SYSTEMS AND ASSOCIATED FRAMING
15. REMOVE EXISTING WALL MOUNTED LIGHT - COORDINATE W/ ELECT. REQUIREMENTS
16. REMOVE EXISTING STAIR HEAD HOUSE, METAL PANELS & CMU BACK UP WALLS, & ROOF
17. REMOVE EXISTING METAL STAIR, PLATFORM, & RAILINGS
18. COMPLETELY REMOVE EXISTING VESTIBULE, DOORS, ROOF & FRAMING
19. REMOVE EXISTING CONCRETE STAIRS & METAL RAILINGS
20. REMOVE EXISTING CONCRETE RAMP & METAL RAILINGS
21. REMOVE EXISTING METAL RAILINGS
22. REMOVE EXISTING GAS PIPING & ALL ASSOCIATED SUPPORTS - COORDINATE W/ M.E.P. REQUIREMENTS
23. REMOVE EXISTING COOLING TOWER - COORDINATE W/ MECH. REQUIREMENTS
24. REMOVE EXISTING CORRUGATED METAL WALL FINISH
25. RELOCATE SIAMESE CONNECTION & ALL ASSOCIATED PIPING - SEE F.P. DWGS.
26. CUT OPENING IN EXISTING BRICK AND BACK-UP WALL SYSTEM FOR NEW DOOR(S)
27. CUT OPENING FOR NEW MECHANICAL LOUVER(S).
28. REMOVE EXISTING CHIMNEY & FLUE
29. CUT OPENING IN EXISTING BRICK AND BACK-UP WALL SYSTEM FOR NEW FUEL OIL FILL BOX
30. REMOVE EXISTING GUTTER AND DOWNSPOUT

GSA
GENERAL SERVICES ADMINISTRATION
10 CAUSEWAY STREET
BOSTON, MA

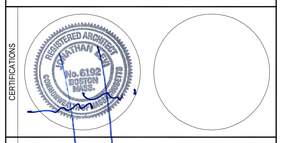
Jonathan Levi Architects
266 beacon street
boston ma 02116
tel 617 437 9458
fax 617 437 1965

JLA

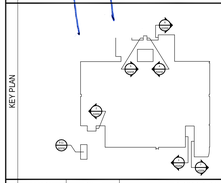
BURT, HILL
ARCHITECTURE ENGINEERING INTERIOR DESIGN LANDSCAPE MASTER PLANNING
303 CONGRESS STREET 6TH FLOOR
BOSTON, MA 02210
TEL: 617 423 4252
FAX: 617 423 4333
BOSTON, MA
BUTLER, PA
CLEVELAND, OH
DUBAI, UAE
PHILADELPHIA,PA
PITTSBURGH,PA
WASHINGTON, DC

© 2009 Burt Hill Inc.

CERTIFICATIONS



KEY PLAN



REVISION NOTES

MARK	DATE	DESCRIPTION

GRAPHIC SCALE

CONTRACTORS	A/E CON. NO.	GS-01P-06-BZ-C-0005
	A/E TASK NO.	X-00-00-XX-0000
	CONS. CONTR.	XX-00X-00-XXX-0000
	CONS. WORK	X-00-00-XX-0000
	PRIME A/E	JONATHAN LEVI ARCHITECTS
	SUB A/E	BURT HILL, INC.
	CONSTR. CON.	XXXXXXXXXXX
BUILDING	NAME	IRS SERVICE CENTER
	STREET	310 LOWELL STREET
	CITY/ST./ZIP	ANDOVER MA 01810
	BUILDING NO.	MA 0137 ZZ
	OTHER	XX0000XX XX0000XX XX0000XX
	BUILDING NOs.	XX0000XX XX0000XX XX0000XX
	FACILITY CODE	XXXX
PROJECT	PROJECT TITLE	MODERNIZATION TO ANDOVER IRS SERVICE CENTER
	PROJECT DESCRIPTION	IRS SERVICE CENTER, ANDOVER, MA
	PROJECT NO.	SMA00217
	GSA PM	BRIAN WONG
	SUBMISSION	BID DOCUMENTS
	SUB. DATE	MAY 1, 2009
DRAWING	DRAWING TITLE	EXTERIOR DEMOLITION ELEVATIONS - MISC.
	FILE NAME	AD-204-SMA00217.DWG
	FLOOR NO.	01
	DRAWN BY	XXX DATE DRAFTED: 08/31/07
	CHECKED BY	XXX SHEET SIZE: 30 X 42
	DRAWING NO.	AD 2 04
		DISCIPLINE SHEET TYPE SEQUENCE
		SHEET X OF XXX

PROPERTY OF THE UNITED STATES GOVERNMENT - FOR OFFICIAL USE ONLY. DO NOT REMOVE THIS NOTICE. PROPERLY DESTROY DOCUMENTS WHEN NO LONGER NEEDED.

Appendix B

Mark-up of TMC Services Phase 2 Work Plan

REVIEWED BY
M. WADE
URS
3 FEB 2012

PCB Work Plan
Phase 2 PCB Removal
Internal Revenue Center Building
310 Lowell Street

COLUMBIA
Construction Company

Prepared For:

Keith Clark
Senior Project Manager
Columbia Construction Co.
100 Riverpark Drive
North Reading, MA

Prepared By
Mr. Bob Maddock
Project Manager

TMC Environmental, Inc.
One William Way
Bellingham, MA 02019

January 27, 2012

JW 2/3/2012

TMC ENVIRONMENTAL
Challenge us. Count on us.

INTRODUCTION

The Internal Revenue Services Center Building is located at 310 Lowell Street in Andover, Massachusetts. The Building has been impacted by PCBs, and/or Asbestos. This Work Plan addresses the Removal of the windows, precast panels, louvers and brick from the exterior of the building that had been in contact with PCB contaminated caulking materials. The project is being conducted by TMC Environmental, Inc. (TMC) for Columbia Construction Company, Inc. (CCC) under the supervision of the General Services Administration (GSA), with observation by GSA's consultant, URS.

PCB contaminated caulk and

Polychlorinated biphenyl (PCB)-impacted building materials (Greater than 50 ppm PCBs) were found to be present in the exterior caulking material (Bulk Product Waste) around the exterior of the Building at concentrations that exceed the allowable PCB levels for unrestricted use (greater than 1 ppm) under the federal PCB regulations 40 CFR 761.61. (Note that PCBs are also present in other areas of the Building, but are not addressed in this Work Plan.) These additional areas of PCB contamination may be amended in the future if additional PCB remediation is awarded to TMC.

TMC work efforts include selective demolition, PCB Bulk Product Waste (caulk) remediation, and asbestos abatement activities, on select window frames, door frames, precast panels louvers and brick of the subject property. The remediation of these areas by TMC will be conducted by Performance-based Disposal in accordance with EPA guidelines, at 40 CFR761.62 (a) and in accordance with the Notification and EPA approval dated March 23, 2011. In addition, all work related to asbestos abatement will be conducted in adherence with State and Federal Regulations applicable to the asbestos abatement activities.

This Work Plan addresses removal of the PCB contamination as identified for the Phase 2 PCB Removal provided December 21, 2011 by URS, RFP # 0357.

This work plan is ~~not~~ required for submittal to the EPA based upon the EPA Approval, condition 10.b. ~~Performance-based Disposal option selected by the GSA, and thus does not have an EPA approved Remedial Implementation Plan (RIP)~~. TMC understands that a new contractor certification in accordance with condition 10.a. of the EPA approval is not required because TMC has already submitted this certification under Phase 1. ~~EPA has been informed of the PCB contamination and is aware of the abatement activities as Performance-based Disposal.~~

This Work Plan does not include any sampling and/or analysis for confirmatory results of the abatement areas ~~or disposal characterization~~.

TMC to provide for waste characterization as required by their selected disposal facility. Obtaining waste profile approval is TMC's responsibility.

LW 2/5/2012

RESPONSIBLE PARTY

The GSA will be responsible for this project by Mr. Surran Dilks:

GSA Design and Construction Division
10 Causeway St.
Boston, MA 02222-1077
(617) 565-8616
surran.dilks@GSA.gov

PROJECT APPROACH

TMC's employees and subcontractors associated with this project have been trained, certified and licensed to perform asbestos abatement work in the State of Massachusetts. In addition, each of these employees has successfully completed the OSHA 40 hour training for hazardous waste and emergency response pursuant to 29 CFR 1910.120 and PCB Awareness Training.

TMC's Site Specific Health & Safety Plan (HASP) outlines specific work practices, control measures, PPE, contamination zones, decontamination procedures and waste storage and disposal requirements as set forth in 40 CFR 761.

All of these are required in the EPA approval. Must attach + incorporate HASP, or import text to describe these. (some are already described in pages 4-9)

Upon acceptance of this Work Plan by GSA/URS and authorization to proceed by the GSA, TMC will mobilize to the IRS Building to commence PCB abatement operations. The project will commence with mobilization of equipment, personnel and materials and site preparation. Site preparation will include staging areas for equipment and storage containers, waste collection roll-off containers, and hoisting/rigging equipment. CCC will provide Site preparation at all exterior areas of PCB by providing free and clear access to the louvers.

Once Site preparation is completed by CCC, TMC will caution tape to restrict access in areas while remedial work is being completed.

TMC will remove PCB impacted louvers window frames, door frames, precast panels and brick from the exterior and interior of the IRS building as identified in RFP #0357. The PCB contaminated building materials will be removed, bagged and placed in DOT approved roll-off containers awaiting approval for transportation and disposal.

lined?

PROJECT CLEANUP GOALS

The decontamination goals for the Removal of PCB Doors Frames, Windows Frames, Louvers Precast Panles, and Brick project will be:

Remove and Dispose of greater than > 1 ppm PCB-contaminated building materials located around the building and identified in RFP #0357 dated December 21, 2011 by URS.

The decontamination sampling procedures and acceptance criteria will be based on post-abatement visual inspections and applicable confirmatory bulk and wipe sampling by URS.

The guidelines of this remediation project shall be governed by the Toxic Substance Control Act (TSCA) and the Code of Federal Regulations (CFR); 40 CFR §761.

TMC Environmental, Inc. of One Williams Way, Bellingham, MA and its subcontractors will perform the services detailed in this document, including the following work plan for the proper removal, and disposal of PCB contaminated building materials. TMC has hired a sub-contractor (The Aulson Company, Inc.) to perform union labor personnel of PCB bulk product waste removal of the building exterior associated materials as identified in RFP #0357 project plans/specifications dated December 21, 2011. This Work Plan details the scope of work and procedures necessary to perform the removal action required by RFP #0357. This plan also contains disposal information for the PCB waste stream listed in the disposal matrix.

PCB CONTAMINATED LOUVES, PRECAST PANELS WINDOW & DOOR FRAMES

The following information details our approach for the PCB abatement activities. Specifically, TMC will employ the following control measures to prevent cross contamination of work zones as well as tools and equipment utilized during the abatement and remedial efforts.

- TMC will place signage at the entrance to the work areas identifying each PCB work zone accordingly. These zones will have limited access with a formal 2 stage decontamination chamber, consisting of an area with disposal receptacles for spent PPE, and then an area equipped with a portable wash station with hand cleaners.
- TMC will isolate the work area with proper engineering controls by placing caution tape around the work area and Polyethylene sheeting will also be placed on the exterior ground surface to prevent cross contamination.
- TMC will remove PCB contaminated building materials as stated in the RFPs #0357 exposed to caulking from identified areas in the project plans and specifications.
- Efforts to remove PCB waste will be dismantled in-whole by utilizing manual methods, with hand tools, sawzall and caulking cutters. The door frames, window frames, precast panels and brick will be dismantled and wrapped with poly for disposal and placed into a properly lined roll-off containers for disposal.

ZW 2/3/2012

Decontamination of PCB-contaminated tools used in the abatement work will be performed with an appropriate solvent rinse or wipe with a solvent wetted rag as required by 40 CFR 761.79 and 40 CFR 761 Subpart S. All personal protective equipment and disposable materials will be bagged and placed in the roll-off containers. Decontamination fluids will be absorbed with rags, placed in poly bags and loaded in the roll-off containers for off-site disposal.

All waste materials generated with PCB Bulk Product Waste will be managed and disposed of pursuant to 40 CFR 761.61 (a)(5)(v)(A)(1) at a permitted lined landfill. The PCB louvers, door frames and window frames waste materials will be stored in lined waste roll-off containers which will be covered and secured. These containers will be adequately marked as PCB waste and stored in accordance with 40 CFR 761.65. Containers will be stored on site as close to the work areas as possible, each container will be on site for approximately one week. Containers will be loaded until properly full, and then transported to a designated storage location on-site awaiting approvals for transportation and disposal.

PROJECT PERSONNEL

The following personnel will be directly involved in the project. PCB abatement personnel selected to perform field related activities will have completed 40 Hour HAZWOPER Training and will be up to date with 8 Hour Refresher Training within the previous 12 Months. The abatement personnel will have medical examinations, and respirator fit testing as required. Site personnel training certificates and information will be on-site with the TMC Site Supervisor for inspection or review upon request. TMC has selected a Site Supervisor that will be present throughout the duration of the PCB abatement and removal operations. The name and qualifications of the supervisor, foremen, operator and abatement personnel will be presented to the GSA, prior to site preparation operations.

Contractor / Project Supervisor
TMC Environmental, Inc.
Dean Soultanian
One Williams Way
Bellingham, MA 02019
Tel: (508) 966-3737
Fax: (508) 966-4861

Interior Abatement Subcontractor
The Aulson Company, Inc
Alan Aulson Jr.
49 Danton Drive
Methuen, MA 01844
Tel: (978) 975-4500
Fax: (978) 975-0987

Site Supervisor
TMC Environmental, Inc.
Robert Arruda
Tel: (508) 304-5699

ABATEMENT PROCEDURES

2/3/2012

Site Preparation and Setup Procedures

- Perform an initial Health and Safety Meeting prior to commencing PCB abatement
- Review Health and Safety Plan
- Identify hospital route map
- Discuss Personal Protective Equipment (PPE) requirements.
- Full level C protection will be required for abatement activities performed within the containment structures. PPE will include a HEPA respirator, tyvek suit, 30-mil nitrile gloves, hard hats, safety glasses and disposable shoe covers.
- Review MSDS forms for on-site materials.
- Identify spill preventative measures and response protocol as outlined in HASP.
- Identify evacuation route plan
- Ensure that electrical equipment has been properly surge protected. Work will not begin until all electrical equipment have been properly connected and secured.
- Provide and identify a location of spill containment drums and supplies.

No equipment or heavy machinery will leave the site prior to decontamination. TMC will decontaminate trucks, trailers, and heavy equipment that have contacted contaminated materials to meet a decontamination standard of ≤ 10micrograms PCBs per 100 square centimeters for non-porous surfaces promulgated in 40 CFR 761.79(b)(3)(i)(A).

TMC will perform all wipe sampling and analysis in accordance with 40 CFR 761 Subpart P following decontamination and submit the results to the GSA for review for compliance with the decontamination standard of ≤ 10 micrograms PCBs per 100 square centimeters.

Waste Staging Area

The waste staging areas will be set-up at various locations next to the building for direct loading to the extent possible. Watertight, tarped roll-off containers will be staged within these areas and lined with 6 mil polyethylene sheeting to handle the PCB impacted demolition debris. The roll-offs will be accessed and closed at the end of each trip. At the completion of each day's operation the roll-offs will be sealed and secured.

The filled secured roll-off container(s) will be transported when full to the approved disposal facilities listed in attached matrix. The staging area will then receive another roll-off to repeat the same process until all of the waste has been removed off-site. Upon completion of the waste staging and disposal operations, the polyethylene sheeting and any contaminated debris within the staging area will be loaded and disposed at the facilities listed below.

Roll-off cans will be properly labeled with the PCB ML mark and the accumulation start date of the first PCB Materials placed into the roll-offs in accordance with the storage time limits spelled out in 40 CFR 761.65(c)(9). The roll-offs will be labeled for proper disposal facility designations.

2W 2/3/2012

Personnel Decontamination Controls

All personnel within the PCB removal zone will wear level C personal protection equipment (PPE). The PPE will be donned and doffed within the designated clean room. Upon exiting the exclusion zone all PPE removal will take place within the designated changing decontamination zone. Disposal of all gloves, chemical resistant suits, shoe coverings, etc. will be placed into poly bags within the personnel decontamination zone. All PPE and decontaminated materials in bags used for containment will be placed into the roll-off containers and transported to the disposal facility identified below.

PCB WASTE TRANSPORTATION AND DISPOSAL

Transportation and Disposal of PCB Wastes

PCB contaminated waste will be disposed of in accordance with the criteria outlined below. Materials will be transported via a hazardous waste manifest to be signed by Generator (GSA), transporter, and the end disposal facility. Copies of all manifests will be included in the project completion report. Originals will be retained by the Generator

Transportation:

The PCB waste generated at the site will be shipped by licensed hazardous and/or Non-hazardous waste transporters. The waste will be shipped via secure, covered, lined, hazardous waste roll-off containers with proper waste shipping documentation. The transporters that may be utilized are:
Hazardous Waste and Non-Hazardous Waste Transporters

TMC Enviromental, Inc.
1 William Way
Bellingham, MA 02019
Contact: Richard Hadley
Phone: 508-966-3737
Fax: 508-966-4861
EQ Northeast
185 Industrial Road
Franklin, MA 02093
Contact: Don Zeaman
Phone: (508) 384-6151
Fax: (508) 384-6028
Goulet Trucking
20 Industrial Drive West

South Deerfield, MA 01373
Contact: Paul Jordan
Phone: 1-888-559-2444
Pro-Teck LLC
85 Willow Street, Bld B, 3rd Floor
New Haven, CT 06511
Contact: William Torello
Phone: (203)624-9461
Fax: (203)624-9463

TMC will provide appropriate transporter licenses to GSA prior to shipment of containers.

Disposal Facilities:

The PCB waste will be transported to a licensed disposal facility. The waste will be profiled into the facility prior to shipment with the approval of the Generator (GSA). The material will be disposed of at a facility permitted to receive the waste.

Options for TSCA hazardous waste disposal facilities are:

CWM Chemical Services, LLC
1550 Balmer Road
Model City NY 14107
Phone: (716) 754-0451
Contact: Patricia Stauffer
EPA ID #: OHD004179339
The Environmental Quality Company (EQ)
Michigan Disposal Waste Treatment Plant
49350 N. I94 Service Drive
Belleville, MI 48111
Phone: 603-485-1125
Contact: Don Zeaman
EPA ID #: MID000724831

TMC will provide GSA with the disposal facilities licenses and permits with waste profiles prior to shipment off-site.

OPTION B – Bulk Product Waste Exemption (Non-hazardous Waste Subtitle D Landfill)

Subtitle D Waste (> 50 ppm PCBs)

This section addresses Bulk Product Waste materials impacted from PCB materials greater than 50 ppm and PCB-excluded product not impacted from a TSCA-regulated release without EPA-approval.

2/3/2012

Bulk product waste will be transported to a licensed Subtitle D disposal facility. The waste will be profiled into the facility prior to shipment with the approval of the Generator (GSA) under a non-hazardous waste manifest. The Subtitle D landfill is:

Waste Management – Turnkey
97 Rochester Neck Road
Rochester, NH
603-330-0217
Contact: Jon Wagman

TMC will provide GSA with the disposal facility license and permit with a waste profile prior to shipment off-site.

PCB Containing Waste Water (If Required)

PCB Containing Waste Water > 0.50 ppb will be transported to a licensed disposal facility. The waste will be profiled into the facility prior to shipment with the approval of the Generator (GSA) under a hazardous waste manifest. The facilities listed below are capable of accepting PCB waste water with > 0.50 ppb. They are fully licensed and capable of consolidating PCB waste water for transportation to a licensed incinerator as required in 40 CFR 761.70

CWM Chemical Services, LLC
1550 Balmer Road
Model City NY 14107
Phone: (716) 754-0451
Contact: Patricia Stauffer
EPA ID #: OHD004179339
TCI of New York
39 Falls Industrial Park Road
Hudson, NY
Phone: (518) 828-9997
EPA ID #: NYD98689912

TMC will provide GSA with the disposal facilities licenses and permits with waste profiles prior to shipment off-site.

Disposal of Decontamination Liquids, Tools and Materials

- Ensure all manifests and shipping documents have been filled out properly and are signed by all necessary parties.

JW 2/3/2012

- Upon completion of abatement activities decontaminated equipment will be properly containerized.
- Equipment will be decontaminated on poly sheeting and triple rinsed with approved cleansers.
- Liquids will be either drummed in DOT approved shipping containers or bulked in transportation vehicles.
- Ensure each load has been accepted at the intended disposal facility
- Tools and miscellaneous waste cleaning materials will also be properly cleaned in the decontamination area.
- Upon completion of the stages of work TMC will decontaminate equipment as necessary.

PROJEC T COMPLETION REPORT

TMC will provide a project completion report to the GSA to document remediation activities. The report will contain a brief summary of the project and include air monitoring results, project photos, waste profiles, manifests and disposal facility receipts for disposal documentation purposes. The report will be provided to GSA within 45 days of PCB abatement project completion.